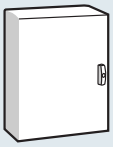
# CATALOGUE

INDUSTRIAL AND POWER PROTECTION

THE **GLOBAL SPECIALIST**
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

legrand®

## Enclosures and equipment



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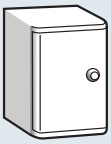

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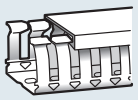

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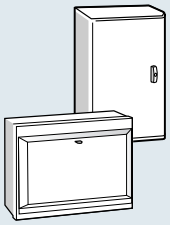

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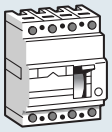

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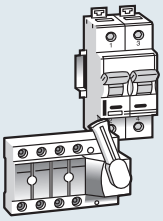

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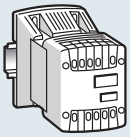

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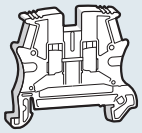

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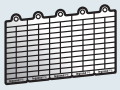

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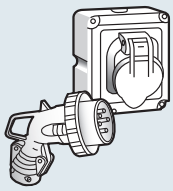

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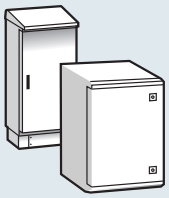
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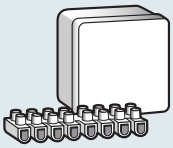
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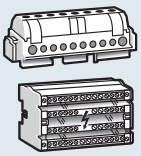
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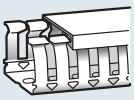
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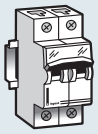
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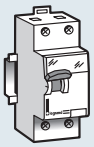
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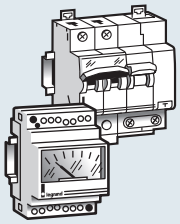
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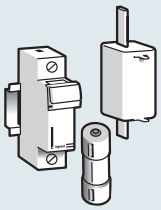
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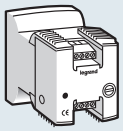
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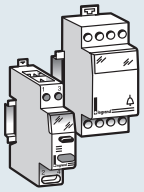
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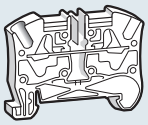
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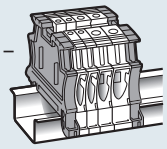
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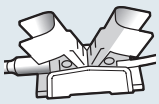
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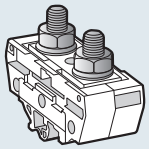
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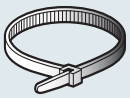
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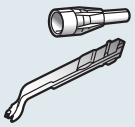
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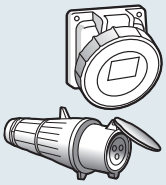
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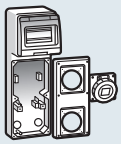
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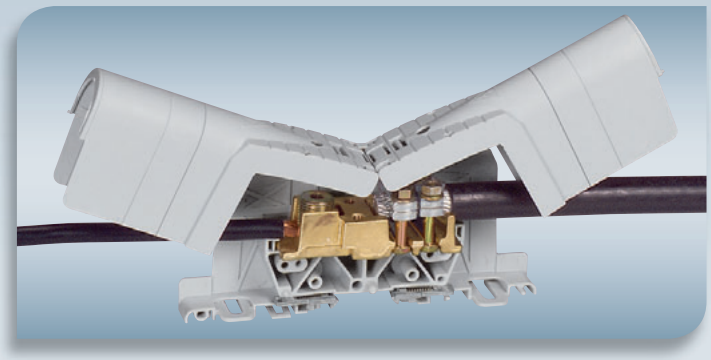
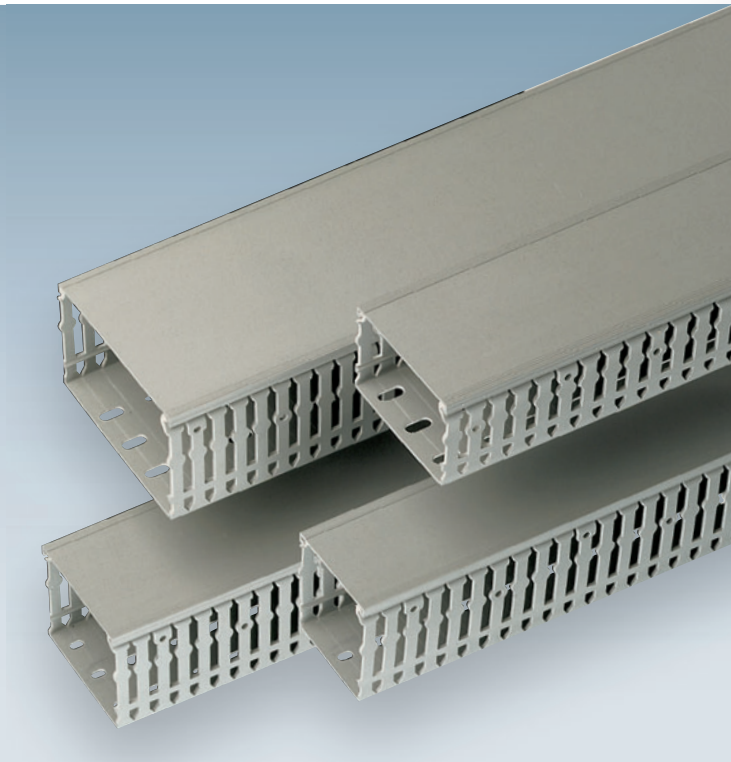
# An industrial portfolio full of innovation

**With high quality products throughout its industrial portfolio, Legrand is in an unbeatable position... offering integrated solutions designed to meet your needs whatever the budget or installation requirements.**



Heavy duty terminal blocks... a simple, trusted solution for the termination of large cables and long cable runs. Multiple termination and mounting options enhance flexibility. (see p. 146 to 149)

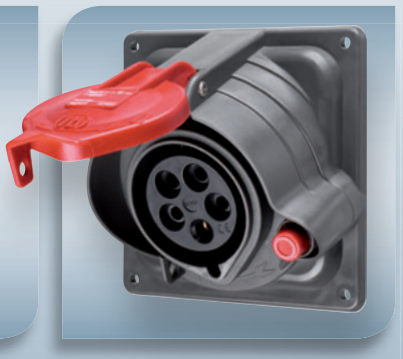


Uniquely different, Transcab open slot panel trunking features a snap to length base and removable fingers, support ribs for strength and rigidity and a clip-on lid for rapid installation... panel cabling couldn't be easier! (see p. 166 to 171)

Atlantic-E mild steel enclosures are the latest addition to Legrand's enclosure range. Available in 27 sizes, and supplied complete with removable plain plate, earth connection braid and wall mounting brackets. (see p. 12 to 15)

With a 0.1 second clock precision, zero crossing switching and expanded offset programming, the new range of programmable AlphaRex³ time switches offers unbeatable accuracy. (see p. 118 to 121)

Legrand's popular DIN rail mounted power contactors are available in 2P, 3P and 4P versions with normally open and normally closed contact options. (see p. 114 to 115)



When safety, reliability and robustness are key, Hypra Prisinter sockets are the perfect choice. With a unique load break and interlock switch, Hypra provides the highest level of safety within a compact design. (see p. 166 to 171)

# Legrand - global strength built on local knowledge

**Legrand is the global specialist in electrical and digital building infrastructures. Innovation is the driving force behind its development. With an increasing investment in research and development (circa 5% of sales) and more than 4,000 active patents, the Legrand Group is focused on maintaining a high rate of new product launches that present innovative solutions to the market.**

## Sustainable development

From design through to manufacturing, the Legrand Group selects materials and processes that respect people and the environment.

- Efficient and environmentally aware product design
- Product functions that help to avoid energy waste
- Management of manufacturing and logistics sites
- Integration of environmental concerns and ISO 14001 procedures at the Group's global sites.*

* 84% of sites are ISO 14001:2004 accredited including all UK sites.

## Legrand in the UK - powered by specialists

In the UK Legrand has developed a customer focused structure which harnesses the power of its market leading specialist brands including Bticino, Electrak and Zucchini to deliver innovative, integrated solutions for every phase of construction.

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**Conditions of sale**

please consult our current price list

In accordance with its policy of continuous improvement, the Company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in this catalogue are for guidance and cannot be held binding on the Company.

# Enclosures and equipment


Atlantic-E steel — P. 10 Selection chart

Atlantic stainless steel — P. 10 Selection chart

Marina GRP — P. 10 Selection chart

Equipment and locking accessories — P. 23 Universal plates

Ventilation and heating for enclosures — P. 29 Ventilation for enclosures

Plexo³ weatherproof enclosures and terminal shield boxes — P. 33 NEW Plexo³ weatherproof enclosures IP 65

Plexo weatherproof boxes — P. 36 Selection chart

Nylbloc terminal strips — P. 41 Nylbloc terminal strips

Distribution blocks — P. 42 Distribution terminal blocks


## NEW IN 2012

### Atlantic-E steel enclosures

IP 66

(p. 14)

### Atlantic stainless steel 316 L enclosures

IP 66

(p. 16)

**P. 12** Introduction to Atlantic-E steel

**P. 14** NEW Atlantic-E wall mounting steel enclosures IP 66 - IK 10

**P. 14** NEW Cabstop plates IP 55

**P. 15** Technical information

**P. 16** Atlantic wall mounting 304L stainless enclosures IP 66 - IK 10

**P. 16** NEW Atlantic wall mounting 316L stainless enclosures IP 66 - IK 10

**P. 16** Technical information

**P. 18** Marina wall mounting GRP enclosures IP 66 - IK 10

**P. 19** Technical information

**P. 21** Marina free standing GRP enclosures IP 66 - IK 10

**P. 22** Technical information

**P. 25** Insulated modular chassis and internal doors

**P. 26** Equipment and fixing accessories

**P. 27** Technical information

**P. 28** Locking accessories

**P. 30** Operating principle for ventilation

**P. 31** Heating for enclosures

**P. 31** Operating principle for heating

**P. 32** Technical information

**P. 34** Technical information

**P. 35** Terminal shield boxes IP 30

**P. 35** Technical information

**P. 37** Plexo boxes IP 55 - IK 07

**P. 38** IP 55 - IK 07/class II IP 66 - IK 08

**P. 40** PVC range with increased depth IP 55 - IK 07/08

**P. 37, 39, 41** Technical information

**P. 43** Modular distribution blocks 40 to 160 A

**P. 44** Four pole distribution blocks 125 to 400 A

**P. 45** Equipment for self assembly distribution blocks

**P. 42, 43, 44, 45** Technical information

## Plexo³ weatherproof enclosures

IP 65

(p. 33)

# The right enclosure for your environment

**Legrand's range of industrial enclosures has been designed to the highest specification, providing the user with much more than just a box**

## STEEL

NEW

### Atlantic-E

Suitable for non-corrosive commercial and industrial environments.

FEATURES -
- Full range of 27 sizes
- Complete with removable mounting plate
- Optional heavy duty mounting brackets
- Dual locks on larger sizes

TECH DATA -
IP66 in accordance with IEC EN 60529
IK10 in accordance with IEC EN 62260

## STAINLESS STEEL

### Atlantic stainless steel

Suitable for corrosive environments and those requiring rigorous hygiene (eg food industry).

FEATURES -
- Available in 9 sizes
- 304L and 316L grade steel options
- Reversible enclosure with rounded door and protective flange
- Double bar locks

TECH DATA -
IP66 in accordance with IEC EN 60529
IK10 in accordance with IEC EN 62260
Nema 4x

## GRP

### Marina

Suitable for saline atmospheres or other corrosive environments.

FEATURES -
- Available in 11 sizes
- Wall mounting and free standing options
- Reversible plain or glass window door - 180° opening
- Dual locks on larger sizes

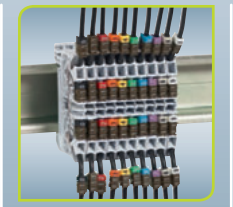
TECH DATA -
IP66 in accordance with IEC EN 60529
IK10 in accordance with IEC EN 62260

## Seamless integration with Legrand's extended family

With high quality products throughout its product portfolio, Legrand is in an unbeatable position... offering integrated solutions designed to meet your needs whatever the budget or installation requirements.

DIN rail equipment
see p. 98 to 127

Transformers
see p. 104 to 111



Viking 3 terminals
see p. 130 to 149

Starfix ferrules & tools
see p. 160 to 161

Transcab open slot
panel trunking see p. 48 to 51

## WEATHERPROOF ENCLOSURES

NEW

### Plexo³

Suitable for a multitude of indoor and outdoor applications.

FEATURES –
- Available in 11 sizes
- Fully reversible door and enclosure
- Lockable door handle
- Sealable cover and face plate
- Optimised cable runs and organisation

TECH DATA –
IP66 in accordance with IEC EN 60529
IK09 in accordance with IEC EN 62260
Conform to EN 60439-3

## WEATHERPROOF BOXES

### Plexo 66 / Plexo 55

Suitable for a multitude of indoor and outdoor applications.

FEATURES –
- Quarter turn fixings
- Halogen free
- Plain and transparent cover options
- Rail or plain plate equipment mounting

TECH DATA –
IP66 in accordance with IEC EN 60529
IK09 in accordance with IEC EN 62260
Polycarbonate, polypropylene, PVC and polystyrene boxes

# NEW Atlantic-E...
# ready and set for you to go

This new robust range of steel wall mounting enclosures is the latest addition to Legrand's extensive industrial product portfolio.

Each enclosure is supplied ready to use with removable plain mounting plate and can be used in conjunction with a variety of time-saving accessories, including: Cabstop weatherproof cable glands, Lina 25 perforated plates and Transcab open slot panel trunking.

See p. 12

# Atlantic-E, Atlantic and Marina enclosures and equipment

selection chart

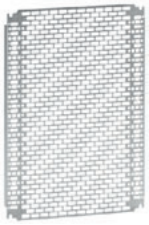
| EXTERNAL DIMENSIONS (nominal) | | | | ATLANTIC-E ENCLOSURES | ATLANTIC ENCLOSURES | | MARINA ENCLOSURES | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | STEEL IP 66 - IK 10 | STAINLESS STEEL IP 66 - IK 10 | | POLYESTER (GRP) IP 66 - IK 10 | | |
| | | | | WALL MOUNTING GREY RAL 7035 | WALL MOUNTING | | WALL MOUNTING | | FREE STANDING |
| | | | | | Stainless 304 L | Stainless 316 L | GREY RAL 7035 | GREY RAL 7035 with window | GREY RAL 7035 |
| Shapes | H (mm) | W (mm) | D (mm) | All supplied with plain plate | | | | | |
| | 300 | 200 | 150 | 0399 30 | – | – | – | – | – |
| | 400 | 300 | 150 | 0399 34 | – | – | – | – | – |
| | 500 | 400 | 150 | 0399 38 | – | – | – | – | – |
| | 300 | 200 | 160 | – | 0352 00 Supplied with plain plate | 0352 40 Supplied with plain plate | 0362 50 | – | – |
| | 400 | 300 | 200 | 0399 35 | 0352 01 | 0352 41 | 0362 51 | 0362 71 | – |
| | 500 | 400 | 200 | 0399 39 | 0352 02 | 0352 42 | 0362 52 | 0362 72 | – |
| | 600 | 400 | 200 | 0399 42 | 0352 03 | – | – | – | – |
| | 600 | 500 | 200 | 0399 44 | – | – | – | – | – |
| | 700 | 500 | 200 | 0399 51 | – | – | – | – | – |
| | 800 | 600 | 200 | 0399 54 | – | – | – | – | – |
| | 500 | 400 | 250 | 0399 40 | – | – | – | – | – |
| | 600 | 400 | 250 | 0399 43 | 0352 05 | 0352 45 | 0362 55 | 0362 75 | – |
| | 600 | 500 | 250 | 0399 45 | – | – | – | – | – |
| | 700 | 500 | 250 | 0399 52 | 0352 06 | 0352 46 | 0362 56 | 0362 76 | – |
| | 800 | 600 | 250 | 0399 55 | – | – | – | – | – |
| | 1000 | 800 | 250 | 0399 64 | – | – | – | – | – |
| | 800 | 600 | 300 | 0399 56 | 0352 11 | 0352 47 | 0362 61 | 0362 81 | – |
| | 1000 | 600 | 300 | 0399 63 | – | – | – | – | – |
| | 1000 | 800 | 300 | 0399 65 | 0352 13 | 0352 53 | 0362 63 | – | – |
| | 1200 | 800 | 300 | 0399 69 | 0352 14 | – | 0362 64 | – | – |
| | 1400 | 800 | 400 | – | 0352 15 | – | – | – | – |
| | 1460 | 800 | 463 | – | – | – | – | – | 0362 85 |
| | 1660 | 800 | 463 | – | – | – | – | – | 0362 86 |
| | 1860 | 800 | 463 | – | – | – | – | – | 0362 87 |
| | 300 | 300 | 150 | 0399 31 | – | – | – | – | – |
| | 300 | 300 | 200 | 0399 32 | – | – | – | – | – |
| | 400 | 400 | 200 | 0399 36 | – | – | – | – | – |
| | 500 | 500 | 250 | 0399 41 | – | – | – | – | – |
| | 600 | 600 | 250 | 0399 46 | – | – | – | – | – |
| | 800 | 800 | 300 | 0399 59 | – | – | – | – | – |
| | 300 | 400 | 200 | 0399 33 | – | – | – | – | – |
| | 400 | 600 | 250 | 0399 37 | – | – | – | – | – |

(1) Atlantic-E enclosures are supplied complete with removable mounting plate (2) Requires Cat. No. 0363 69 when mounting in Atlantic stainless steel (see p. 25)
(3) Galvanised steel (4) Pre-galvanised steel
(A) For Atlantic stainless steel (M) For Marina (E) For Atlantic-E

| EQUIPMENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Plain plates** (not compatible with Atlantic-E enclosures) (1) (4) | **Lina 12·5 perforated plates** (4) | **Lina 25 perforated plates** (4) | **Modular chassis** | **Internal doors** (not compatible with Atlantic-E enclosures) | **Lina 25 sectioned uprights** | **Lina 25 crosspieces** | **Roofs** (not compatible with Atlantic stainless steel enclosures) | **Plinths** | **IP 55 Cabstop** (direct mounting on cable entry of Atlantic-E enclosures) |
| – | 0360 00 | 0360 07 | – | – | 0361 50 | – | – | – | – |
| – | 0360 04 | 0360 12 | – | – | 0361 51 | 0367 80 | – | – | – |
| – | 0360 09 | 0360 15 | – | – | 0361 52 | 0367 81 | – | – | – |
| 0360 49(M)<br>0360 50(A) | 0360 00(A)<br>0360 01(M) | 0360 07(A)<br>0360 99(M) | – | – | 0361 50(A) | – | – | – | – |
| 0360 52 | 0360 04 | 0360 12 | 0361 01 | 0363 59(2) | 0361 51 | 0367 80 | 0365 51(E) | – | – |
| 0360 55 | 0360 09 | 0360 15 | 0361 02 | 0363 60(2) | 0361 52 | 0367 81 | 0365 52(E) | – | 0364 95(E) |
| 0360 56 | 0360 22 | 0360 16 | – | 0363 61(2) | 0361 53 | 0367 81 | 0365 52(E) | – | 0364 95(E) |
| – | – | – | – | – | 0361 53 | 0367 82 | 0365 59 | – | 0364 95 |
| – | 0360 31 | 0360 18 | – | – | 0361 54 | 0367 82 | 0365 59 | – | 0364 95 |
| – | 0360 33 | 0360 19 | – | – | 0361 55 | 0367 83 | – | – | 0364 95 |
| – | 0360 09 | 0360 15 | – | – | 0361 52 | 0367 81 | 0365 53 | – | 0364 95 |
| 0360 56 | 0360 22 | 0360 16 | 0361 03 | 0363 61(2) | 0361 53 | 0367 81 | 0365 53(E) | – | 0364 95(E) |
| – | – | – | – | – | 0361 53 | 0367 82 | 0365 64 | – | 0364 95 |
| 0360 58 | 0360 31 | 0360 18 | 0361 05 | 0363 62(2) | 0361 54 | 0367 82 | 0362 93(M)<br>0365 64(E) | – | 0364 95(E) |
| – | 0360 33 | 0360 19 | – | – | 0361 55 | 0367 83 | – | – | 0364 97 |
| – | 0360 42 | 0360 21 | – | – | 0361 56 | 0367 84 | – | – | 0364 97 |
| 0360 59 | 0360 33 | 0360 19 | 0361 06 | 0363 63(2) | 0361 55 | 0367 83 | 0365 56(E)<br>0362 94(M) | 0363 00(E)<br>0362 91(M) | 0364 97(E) |
| – | 0360 40 | 0360 23 | – | – | 0361 56 | 0367 83 | 0365 56 | 0363 00 | 0364 97 |
| 0360 61 | 0360 42 | 0360 21 | 0361 09 | 0363 64(2) | 0361 56 | 0367 84 | 0365 57(E)<br>0362 95(M) | 0363 01(E)<br>0362 92(M) | 0364 97(E) |
| 0360 64 | 0360 46 | 0360 87 | 0361 10 | 0363 65(2) | 0361 58 | 0367 84 | 0365 57(E)<br>0362 95(M) | 0363 01(E)<br>0362 92(M) | 0364 97(E) |
| 0360 67 | 0360 75 | 0360 90 | – | – | 0361 59 | 0367 84 | – | – | – |
| 0349 59(3) | – | – | – | – | 0363 90 | – | 0362 97 | 0362 96 | – |
| 0349 50(3) | – | – | – | – | 0363 91 | – | 0362 97 | 0362 96 | – |
| 0344 18(3) | – | – | – | – | 0363 92 | – | 0362 97 | 0362 96 | – |
| – | 0360 02 | 0360 91 | – | – | 0361 50 | 0367 80 | – | – | – |
| – | 0360 02 | 0360 91 | – | – | 0361 50 | 0367 80 | 0365 51 | – | – |
| – | 0360 05 | 0360 92 | – | – | 0361 51 | 0367 81 | 0365 52 | – | 0364 95 |
| – | 0360 14 | 0360 93 | – | – | 0361 52 | 0367 82 | 0365 64 | – | 0364 95 |
| – | 0360 24 | 0360 17 | – | – | 0361 53 | 0367 83 | 0365 54 | – | 0364 97 |
| – | 0360 34 | 0360 20 | – | – | 0361 55 | 0367 84 | 0365 57 | 0363 01 | 0364 97 |
| – | 0360 04 | 0360 12 | – | – | 0361 50 | 0367 81 | 0365 52 | – | 0364 95 |
| – | 0360 22 | 0360 16 | – | – | 0361 51 | 0367 83 | 0365 54 | – | 0364 97 |

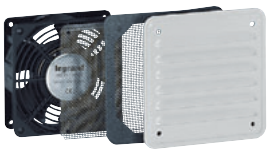
## ASSOCIATED PRODUCTS

**Document pocket**
**(p. 26)**



**Perforated plates**
**(p. 23)**

**Locking accessories**
**(p. 28)**



**Ventilation kits**
**(p. 29)**

**Heaters and thermostat**
**(p. 31)**

**Chassis kits**
**(p. 25)**

# Atlantic-E...

## as strong as steel

**This new robust range of steel wall mounting enclosures is the latest addition to Legrand's extensive industrial product portfolio. Atlantic-E has been designed to the highest specification and incorporates a number of innovations that make installation faster and easier than ever before.**

### Designed with the installer in mind

Save time on installation... each Atlantic-E enclosure is supplied ready to use with a removable plain mounting plate, cable entry plate, earth connection braid and wall mounting brackets.

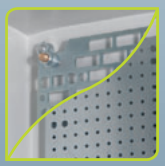
Flexible and reliable... doors are easy to remove, are fully reversible if required, and offer a 130º opening for easy access inside the enclosure. Innovative design features provide greater strength and weatherproofing to ensure a long-lasting installation.

- **Full range of 27 sizes (up to 1200 x 800 x 300 mm)**
- **Supplied complete with removable mounting plate**
- **IP 66 weatherproof seal**
- **IK 10 - maximum protection against mechanical impact**
- **Dual locks on larger sized enclosures provide additional security**
- **Optional mounting brackets for heavy loads**

### Optional features and fully compatible products extend your choices

With a wide selection of accessories and equipment available, Atlantic-E enclosures can easily be tailored to the specific requirements of each application.

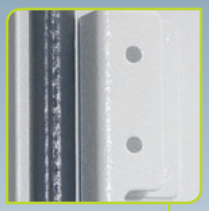
Heavy duty mounting brackets
see p. 14



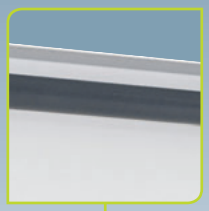
Mounting plate options
see p. 23

Transcab panel trunking
see p. 48 to 51

Viking 3 terminal blocks
see p. 130 to 149



Sectioned uprights – provide greater door strength and mounting holes for cable trunking

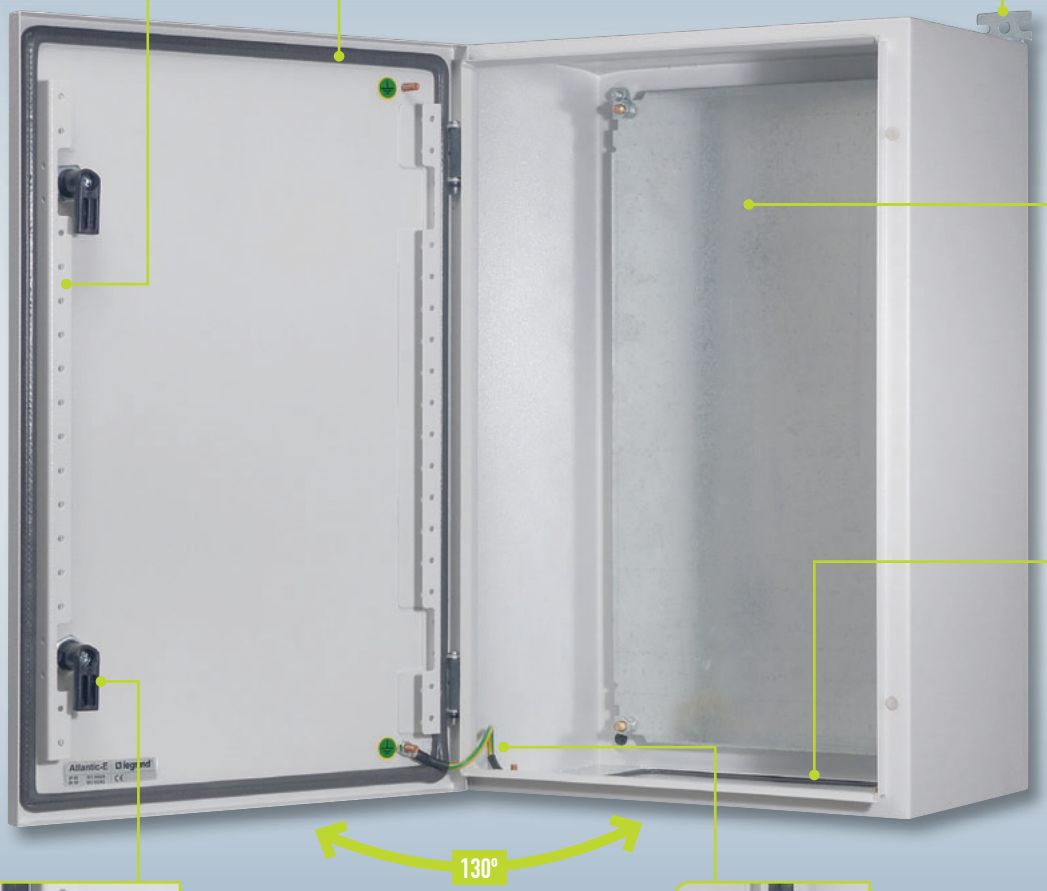


Weatherproof seal – polyurethane seal for greater reliability and total weatherproofing to IP 66 (or IP 55 with Cabstop plate)

Mounting brackets – wall mounting brackets supplied with enclosure. Optional mounting brackets for heavy loads available

Removable plain mounting plate – provides maximum usable space and an easy method of fixing equipment directly. Optional perforated plates or ready to use chassis available

Removable cable entry plate – fully weatherproof polyurethane seals aligned with the base of the enclosure for a high quality finish. Can be equipped with cable glands or replaced with Cabstop plate for fast weatherproof cable entry



Double bar locks – ensure a totally weatherproof seal. Supplied with double bar key. Alternative locks available

Reversible door – easy to remove. With metal hinges for guaranteed strength. Opens to 130° for easier access inside the enclosure

legrand

# Atlantic-E steel wall mounting enclosures

NEW

**IP 66 - IK 10**

0399 30

0399 35

0399 43

0365 53

*Technical information and dimensions (p. 15)*
*Equipment (p. 23-32)*

## Steel enclosures

Grey RAL 7035
IP 66 according to IEC 60529
IK 10 according to IEC 62262, EN 50102
Supplied with : galvanised plain mounting plate (removable), earth connection braid and wall mounting brackets
Reversible door
Supplied with one double bar lock up to 500 x 500 x 250 mm and 2 double bar locks from 600 x 400 x 150 mm
Removable cable entries plate
Can be equipped with Cabstop plates
Can be equipped with Lina 12·5 and Lina 25 perforated plates, sectioned uprights, DIN rail or chassis with insulating faceplates (p. 23-26)
80 µ thick textured polyester coating

| Pack | Cat. Nos. | Dimensions (mm) Height | Width | Depth | Weight (kg) |
|---|---|---|---|---|---|
| 1 | 0399 30 | 300 | 200 | 150 | 4·5 |
| 1 | 0399 31 | 300 | 300 | 150 | 4·7 |
| 1 | 0399 32 | 300 | 300 | 200 | 4·8 |
| 1 | 0399 33 | 300 | 400 | 200 | 6·7 |
| 1 | 0399 34 | 400 | 300 | 150 | 6·25 |
| 1 | 0399 35 | 400 | 300 | 200 | 6·7 |
| 1 | 0399 36 | 400 | 400 | 200 | 10·5 |
| 1 | 0399 37 | 400 | 600 | 250 | 13·5 |
| 1 | 0399 38 | 500 | 400 | 150 | 11 |
| 1 | 0399 39 | 500 | 400 | 200 | 11·5 |
| 1 | 0399 40 | 500 | 400 | 250 | 12 |
| 1 | 0399 41 | 500 | 500 | 250 | 12·5 |
| 1 | 0399 42 | 600 | 400 | 200 | 13 |
| 1 | 0399 43 | 600 | 400 | 250 | 13·5 |
| 1 | 0399 44 | 600 | 500 | 200 | 16 |
| 1 | 0399 45 | 600 | 500 | 250 | 16·5 |
| 1 | 0399 46 | 600 | 600 | 250 | 17 |
| 1 | 0399 51 | 700 | 500 | 200 | 20 |
| 1 | 0399 52 | 700 | 500 | 250 | 21 |
| 1 | 0399 54 | 800 | 600 | 200 | 27 |
| 1 | 0399 55 | 800 | 600 | 250 | 30 |
| 1 | 0399 56 | 800 | 600 | 300 | 31·7 |
| 1 | 0399 59 | 800 | 800 | 300 | 33·5 |
| 1 | 0399 63 | 1000 | 600 | 300 | 48 |
| 1 | 0399 64 | 1000 | 800 | 250 | 49·5 |
| 1 | 0399 65 | 1000 | 800 | 300 | 52 |
| 1 | 0399 69 | 1200 | 800 | 300 | 62 |

## Roofs

Grey RAL 7035
Steel
Possible adjustment ±20 mm (front or back)

| | | For enclosures Width (mm) | Depth (mm) | Weight (kg) |
|---|---|---|---|---|
| 1 | 0365 51 | 300 | 200 | 1·2 |
| 1 | 0365 52 | 400 | 200 | 1·4 |
| 1 | 0365 53 | 400 | 250 | 1·8 |
| 1 | 0365 64 | 500 | 250 | 2 |
| 1 | 0365 54 | 600 | 250 | 2·5 |
| 1 | 0365 56 | 600 | 300 | 3 |
| 1 | 0365 57 | 800 | 300 | 3·6 |

## Plinths

Anthracite grey RAL 7021
Height 200 mm
Front and rear trap door

**For 300 mm deep enclosures**

| Pack | Cat. Nos. | Enclosure width (mm) | Weight (kg) |
|---|---|---|---|
| 1 | 0363 00 | 600 | 6 |
| 1 | 0363 01 | 800 | 6·7 |

## Cabstop plates IP 55

**Open-work plates**
Grey RAL 7035
Cable entries consisting of a cable clamp providing the mechanical grip, and elastomer areas for weatherproofing
Can be pierced using the cable (no tool required)
Fits the cable perfectly
Replacement of a cable possible
Fire retardant polypropylene
Supplied with :
- locking caps for sealing a pierced entry providing IP 55 protection
- cable release tool

| Pack | Cat. Nos. | Number of entries Ø5 to 14 (mm) | Number of entries Ø14 to 24 (mm) | Number of spare entries | Direct mounting on cable entry of Atlantic-E enclosure width (mm) |
|---|---|---|---|---|---|
| 1 | 0364 95 | 13 | 1 | 1 | 400 |
| 1 | 0364 97 | 28 | 2 | 2 | 600-800-1200 |

## Wall mounting brackets

Grey RAL 7035
For heavy loads up to 300 kg
Horizontal or vertical installation
With a roof, horizontal installation only
Zamak
Supplied with cover

| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0364 01 | Set of 4 |

## Locking accessories

**Metal rebate lock barrels**

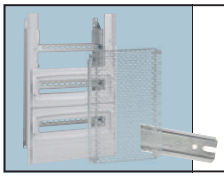
| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0399 80 | 6 mm female square |
| 10 | 0399 81 | 8 mm male triangle |

**Keys for rebate locks**

| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0365 35 | 6 mm female square |
| 10 | 0365 40 | 8 mm male triangle |

**Key barrels**
Supplied with set of 2 keys
For key No :

| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0399 86 | 405 |
| 10 | 0399 87 | 455 |
| 10 | 0399 88 | 2433 A |
| 10 | 0365 45 | Set of two 2433 A keys |

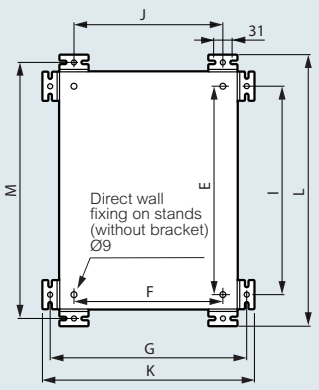


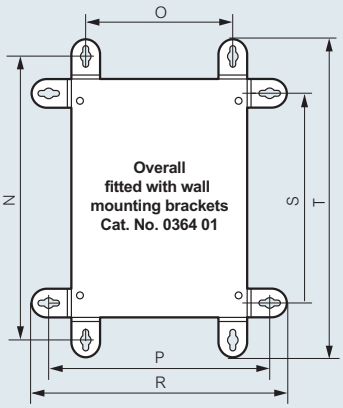
**For Lina 12.5 and Lina 25 perforated plates see p. 23**
**For modular chassis see p. 25**
**For sectioned uprights see p. 26**
**For crosspieces see p. 26**

# Atlantic-E steel wall mounting enclosures

**IP 66 - IK 10**

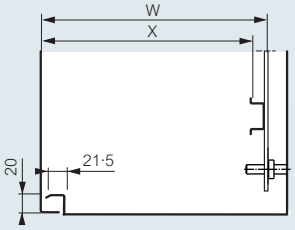
## ■ Fixing dimensions



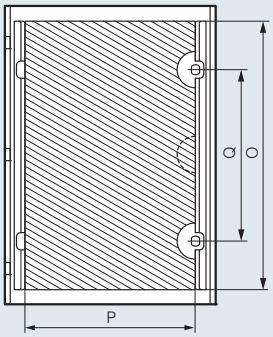

| Enclosures | | Vertical brackets | | Mounting centres | Horizontal brackets | | Mounting centres | Overall | | Overall with 0364 01 | | Vertical brackets | | Horizontal brackets | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H (mm) | W (mm) | M (mm) | J (mm) | E (mm) | I (mm) | G (mm) | F (mm) | L (mm) | K (mm) | T (mm) | R (mm) | N (mm) | O (mm) | P (mm) | S (mm) |
| **300** | **200** | 330 | 150 | 250 | 250 | 230 | 150 | 356 | 256 | 430 | 330 | 375 | 150 | 275 | 250 |
| **300** | **300** | 330 | 250 | 250 | 250 | 330 | 250 | 356 | 356 | 430 | 430 | 375 | 250 | 375 | 250 |
| **300** | **400** | 330 | 350 | 250 | 250 | 430 | 350 | 356 | 456 | 430 | 530 | 375 | 350 | 475 | 250 |
| **400** | **300** | 430 | 250 | 350 | 350 | 330 | 250 | 456 | 356 | 530 | 430 | 475 | 250 | 375 | 350 |
| **400** | **400** | 430 | 350 | 350 | 350 | 430 | 350 | 456 | 456 | 530 | 530 | 475 | 350 | 475 | 350 |
| **400** | **600** | 430 | 550 | 350 | 350 | 530 | 550 | 456 | 656 | 530 | 730 | 475 | 550 | 575 | 350 |
| **500** | **400** | 530 | 350 | 450 | 450 | 430 | 350 | 556 | 456 | 630 | 530 | 575 | 350 | 475 | 450 |
| **500** | **500** | 530 | 450 | 450 | 450 | 530 | 450 | 556 | 556 | 630 | 630 | 575 | 450 | 575 | 450 |
| **600** | **400** | 630 | 350 | 550 | 550 | 430 | 350 | 656 | 456 | 730 | 530 | 675 | 350 | 475 | 550 |
| **600** | **500** | 630 | 450 | 550 | 550 | 530 | 450 | 656 | 556 | 730 | 630 | 675 | 450 | 575 | 550 |
| **600** | **600** | 630 | 550 | 550 | 550 | 630 | 550 | 656 | 656 | 730 | 730 | 675 | 550 | 675 | 550 |
| **700** | **500** | 730 | 450 | 650 | 650 | 530 | 450 | 756 | 556 | 830 | 630 | 775 | 450 | 575 | 650 |
| **800** | **600** | 830 | 550 | 750 | 750 | 630 | 650 | 856 | 656 | 930 | 730 | 875 | 550 | 675 | 750 |
| **800** | **800** | 830 | 750 | 750 | 750 | 830 | 750 | 856 | 856 | 930 | 930 | 875 | 750 | 875 | 750 |
| **1000** | **600** | 1030 | 550 | 950 | 950 | 630 | 550 | 1056 | 656 | 1130 | 730 | 1075 | 550 | 675 | 950 |
| **1000** | **800** | 1030 | 750 | 950 | 950 | 830 | 750 | 1056 | 856 | 1130 | 930 | 1075 | 750 | 875 | 950 |
| **1200** | **800** | 1230 | 750 | 1150 | 1150 | 830 | 750 | 1256 | 856 | 1330 | 930 | 1275 | 750 | 875 | 1150 |

## ■ Usable depth




| Enclosures depth | Back of enclosures | |
|---|---|---|
| (mm) | W (mm) | X (mm) |
| **150** | 130 | 115 |
| **200** | 180 | 165 |
| **250** | 230 | 215 |
| **300** | 280 | 265 |

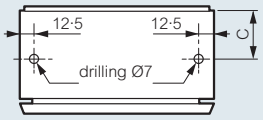
## ■ Doors : usable area dimensions




(1) Central lock
(2) Top and bottom lock

| Enclosures H x W (mm) | Door usable space Height O (mm) | Width P (mm) | Area (dm²) | Locking position Q (mm) |
|---|---|---|---|---|
| **300 x 200** | 251 | 80 | 2·0 | (1) |
| **300 x 300** | 251 | 180 | 4·5 | (1) |
| **300 x 400** | 251 | 280 | 7·0 | (1) |
| **400 x 300** | 351 | 180 | 6·3 | (1) |
| **400 x 400** | 351 | 280 | 9·8 | (1) |
| **400 x 600** | 351 | 480 | 16·8 | (1) |
| **500 x 400** | 425 | 280 | 11·9 | (1) |
| **500 x 500** | 425 | 380 | 16·1 | (1) |
| **600 x 400** | 525 | 280 | 14·7 | 350(2) |
| **600 x 500** | 525 | 380 | 19·9 | 350(2) |
| **600 x 600** | 525 | 480 | 25·2 | 350(2) |
| **700 x 500** | 625 | 380 | 23·7 | 450(2) |
| **800 x 600** | 725 | 480 | 36·0 | 550(2) |
| **800 x 800** | 725 | 680 | 49·3 | 550(2) |
| **1000 x 600** | 925 | 480 | 44·4 | 750(2) |
| **1000 x 800** | 925 | 680 | 62·9 | 750(2) |
| **1200 x 800** | 1125 | 680 | 76·5 | 950(2) |

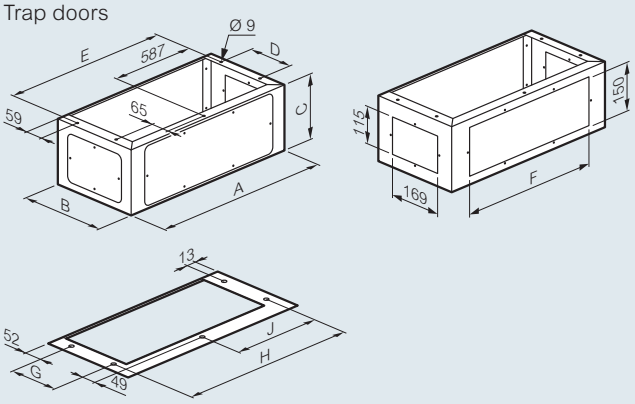
## ■ Roof fixing position




| Cat. Nos. | C (mm) |
|---|---|
| **0365 51/52** | 100 |
| **0365 53/54/64** | 125 |
| **0365 56/57** | 150 |

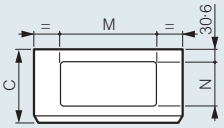
## ■ Plinths

Trap doors




| Cat. Nos. | Enclosures W x D (mm) | A | B | C | D | E | F | G | H | J |
|---|---|---|---|---|---|---|---|---|---|---|
| **0363 00** | 600 x 300 | 600 | 280 | 200 | 150 | 574 | 469 | 150 | 542 | 271 |
| **0363 01** | 800 x 300 | 800 | 280 | 200 | 150 | 774 | 469 | 150 | 742 | 371 |

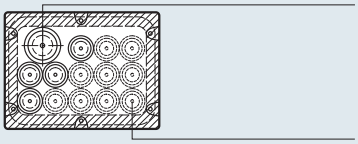
## ■ Cable entry plate




| Enclosures (mm) | | | Dimensions of cable entries (mm) | |
|---|---|---|---|---|
| W | D | Overall depth C | M | N |
| **200** | **150** | 155 | 116·5 | 62·5 |
| **300** | **150** | 155 | 116·5 | 62·5 |
| **300** | **200** | 205 | 116·5 | 62·5 |
| **400** | **150** | 155 | 116·5 | 62·5 |
| **400** | **200** | 205 | 266·5 | 112·5 |
| **400** | **250** | 255 | 266·5 | 112·5 |
| **500** | **200** | 205 | 266·5 | 112·5 |
| **500** | **250** | 255 | 266·5 | 112.5 |
| **600** | **200** | 205 | 266.5 | 112·5 |
| **600** | **250** | 255 | 466·5 | 147·5 |
| **600** | **300** | 305 | 466·5 | 147·5 |
| **800** | **250** | 255 | 466·5 | 147·5 |
| **800** | **300** | 305 | 466·5 | 147·5 |

## ■ Cabstop plates IP 55

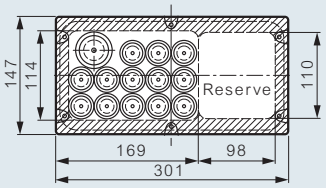
- Tensile resistance : 15 kg minimum
- Operating temperature : –20 °C to +65 °C
- ASTM No 3 resistance to cutting oil
- Resistance to incandescent wire : 750 °C according to IEC EN 60695-2-11



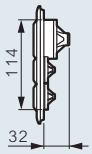
Cable entry Ø14 to 24 mm
equivalent CG PG 21/29
ISO 25/32

Cable entry Ø5 to 14 mm
equivalent CG PG 9/11/13/16
ISO 16/20

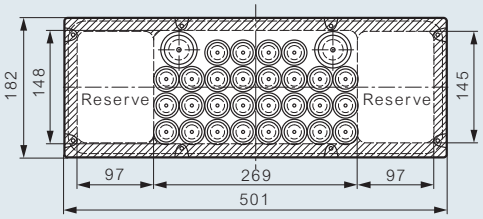
Cat. No. 0364 95



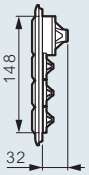

Side view




Cat. No. 0364 97




Side view



legrand

# Atlantic stainless steel
## wall mounting enclosures
**IP 66 - IK 10 - Nema 4x**

0352 01 0352 42 0352 11

*Technical information and dimensions (opposite)*
*Equipment (p. 23-32)*

IP 66 according to IEC 60529
IK 10 according to IEC 62262, EN 50102
UL listed (Nema 4x)
CSA, Bureau Veritas, LRS. LCIE N° 170 790 10A
Stainless steel 304 L, 316 L
Upper and lower protective hoods
Door with rounded vertical sides

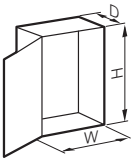
For use in :
- **areas requiring a high level of hygiene :**
  - food processing plants and dairies
  - industrial/commercial kitchens
- **corrosive conditions :**
  - chemical plants
  - pharmaceutical, petroleum and paper industries
- **very harsh environments :**
  - industrial; acid or acid fumes
  - offshore; naval; chlorides present

Automatic positioning of equipment on to active corners with M8 fixings
Provision to fix optional runners and brackets for depth adjustment in enclosures from 600 x 400 x 250 mm (contact us on +44 (0) 845 605 4333)

### Stainless steel enclosures[1] – 304 L (1 door)

Double bar lock. Epoxy finish. Zamak coated
Locking points : 1 lock for heights ≤ 400 mm
2 locks for heights ≥ 500 mm

| Pack | Cat. Nos. | External dimensions (mm) Height | Width | Depth | Weight (kg) |
|---|---|---|---|---|---|
| 1 | 0352 00[1][2] | 300 | 200 | 160 | 4 |
| 1 | 0352 01[1] | 400 | 300 | 200 | 5·8 |
| 1 | 0352 02 | 500 | 400 | 200 | 8·3 |
| 1 | 0352 03 | 600 | 400 | 200 | 10·8 |
| 1 | 0352 05 | 600 | 400 | 250 | 12 |
| 1 | 0352 06 | 700 | 500 | 250 | 15 |
| 1 | 0352 11 | 800 | 600 | 300 | 22 |
| 1 | 0352 13 | 1 000 | 800 | 300 | 38 |
| 1 | 0352 14 | 1 200 | 800 | 300 | 45 |
| 1 | 0352 15 | 1 400 | 800 | 400 | 66 |

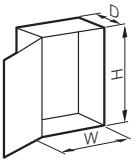



### Stainless steel enclosures – 316 L (1 door)

Supplied with non-interchangeable double bar lock
Epoxy finish. Steel coated
Locking points : 1 lock for heights ≤ 400 mm
2 locks for heights ≥ 500 mm

NEW

| Pack | Cat. Nos. | External dimensions (mm) Height | Width | Depth | Weight (kg) |
|---|---|---|---|---|---|
| 1 | 0352 40[2] | 300 | 200 | 160 | 4 |
| 1 | 0352 41 | 400 | 300 | 200 | 5·8 |
| 1 | 0352 42 | 500 | 400 | 200 | 8·3 |
| 1 | 0352 45 | 600 | 400 | 250 | 12 |
| 1 | 0352 46 | 700 | 500 | 250 | 15 |
| 1 | 0352 47 | 800 | 600 | 300 | 22 |
| 1 | 0352 53 | 1 000 | 800 | 300 | 38 |




### Wall mounting brackets

Supplied with stainless steel screws
Horizontal or vertical installation
Set of 4
Upto max. load 300 kg

| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0364 06 | 304 L |
| 1 | 0364 16 | 316 L |

(1) Cat. Nos. 0352 00/01 are fitted with 1 lock, all others are fitted with 2 locks
(2) Supplied with plain plate

# Atlantic stainless steel
## wall mounting enclosures
**IP 66 - IK 10 - Nema 4x**

### ■ Technical information

Stainless steel enclosures provide a solution in harsh, aggressive environments such as chemical plants or offshore

**Corrosion resistance**

| | 304 L | 316 L |
|---|---|---|
| **To salt spray (SS)** | 1 000 hrs | 2 000 hrs |
| **To sulphur dioxide ($SO_2$)** | 500 hrs | 1 000 hrs |

**Brushed stainless steel finish**

Polygrain 180
- Ra 0·25 to 0·35 µm
- Rt 2·5 to 4 µm

**Stainless steel properties**

**304 L** : Provides good resistance to :
- nitric acid at concentrations of 52 % or less at all temperatures (or 98 % when cold)
- cold dilute organic acids
- alkaline solutions (unless hot or above 50 %)
- saline solutions except chlorides, sulphides and sulphates
- fresh water and natural atmosphere low in chlorides
- food products (except mustard and white wine)

**316 L** : Provides good resistance to :
- phosphoric acids - all concentrations ≤ 40 °C
- sulphuric acids < 10 % and > 80 % at 20 °C
- sulphuric compounds ≤ 70 °C
- sulphuric vapours and solutions, even boiling
- salt solutions except chloride
- alkaline solutions - all concentrations < 100 °C
- fresh water and natural atmosphere (particularly marine conditions)
- organic, food and pharmaceutical compounds

**Physical properties**

| | |
|---|---|
| Specific weight - density : | 8 |
| Coefficient of expansion : | 16 µ / m °C |
| Specific heat : | 500 J / kg °C |
| Electrical resistivity : | 0·75 µΩ $mm^2$ |
| Thermal conductivity : | 15 W / m °C |

The only way of guaranteeing excellent resistance to intercrystalline corrosion is the low carbon content (0·03 %) of 304 L and 316 L stainless steel

**Different country names**

| | | 304 L | 316 L |
|---|---|---|---|
| **France** | AFNOR<br>NFEN | Z3 CN 18-10<br>X 2 CNI 19-11 | Z3 CND 17-11-02<br>X 2 CNI Mo 17-12-2 |
| **Germany** | DIN | X 2 CNI 19-11 (W.Nr 1-4 306) | X 2 CNI Mo 17-13-2 (W.Nr 1-4 404) |
| **USA** | AISI | 304 L | 316 L |

**For plates, internal doors, chassis and equipment**

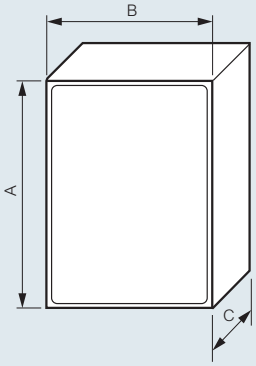
**see p. 23-32**

# Atlantic stainless steel wall mounting enclosures

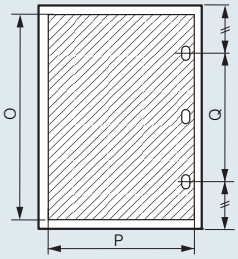
**IP 66 - IK 10 - Nema 4x**

## ■ Dimensions

Enclosure



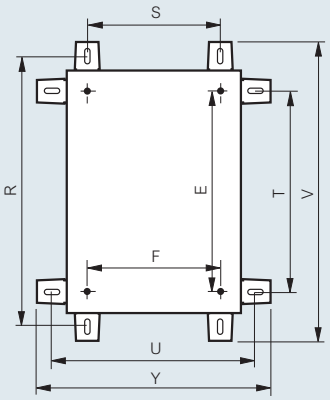

Plain plate door



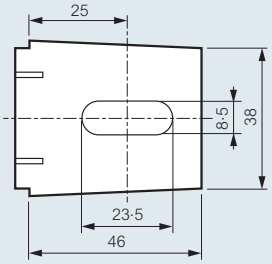

| Cat. Nos. | Height | Width | Depth | Usable door surface area | | Lock positions |
|---|---|---|---|---|---|---|
| | A (mm) | B (mm) | C (mm) | O (mm) | P (mm) | Q (mm) |
| 0352 00/40 | 301·6 | 199·6 | 161·5 | 250 | 150 | Centred |
| 0352 01/41 | 401·6 | 299·6 | 201·5 | 350 | 250 | Centred |
| 0352 02/42 | 501·6 | 399·6 | 201·5 | 450 | 350 | 250 |
| 0352 03 | 601·6 | 399·6 | 201·5 | 550 | 350 | 380 |
| 0352 05/45 | 601·6 | 399·6 | 251·5 | 550 | 350 | 380 |
| 0352 06/46 | 702·4 | 500 | 251·5 | 650 | 450 | 400 |
| 0352 11/47 | 802·4 | 600 | 301·5 | 750 | 550 | 400 |
| 0352 13/53 | 1003·6 | 800·6 | 301·5 | 950 | 750 | 600 |
| 0352 14 | 1203·6 | 800·6 | 301·5 | 1150 | 750 | 700 |
| 0352 15 | 1400·6 | 800·6 | 401·5 | 1350 | 750 | 900 |

**Note :** Dimension C does not include lock
Lock thickness = 4 mm

## ■ Fixing positions for wall mounting brackets



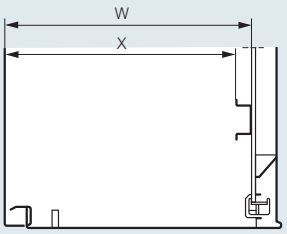

Cat. Nos. 0364 06/16




| Cat. Nos. | Vertical wall brackets | | Horizontal wall brackets | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|
| | R (mm) | S (mm) | T (mm) | U (mm) | V (mm) | Y (mm) | E (mm) | F (mm) |
| 0352 00/40 | 353 | 150 | 250 | 250 | 395 | 292 | 225 | 169 |
| 0352 01/41 | 453 | 250 | 350 | 350 | 495 | 392 | 325 | 269 |
| 0352 02/42 | 553 | 350 | 450 | 450 | 595 | 492 | 425 | 369 |
| 0352 03 | 653 | 350 | 550 | 450 | 695 | 492 | 525 | 369 |
| 0352 05/45 | 653 | 350 | 550 | 450 | 695 | 492 | 525 | 369 |
| 0352 06/46 | 753 | 450 | 650 | 550 | 795 | 592 | 625 | 469 |
| 0352 11/47 | 853 | 550 | 750 | 650 | 895 | 692 | 725 | 569 |
| 0352 13/53 | 1053 | 750 | 950 | 850 | 1095 | 892 | 925 | 769 |
| 0352 14 | 1253 | 750 | 1150 | 850 | 1295 | 892 | 1125 | 769 |
| 0352 15 | 1450 | 750 | 1350 | 850 | 1492 | 892 | 1325 | 769 |

### Position of equipment

without runners
For runners, contact us on +44 (0) 845 605 4333

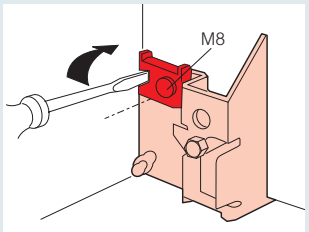


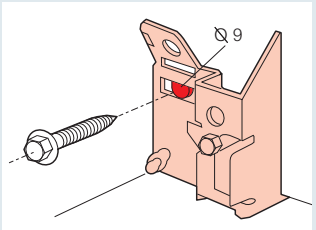

| Enclosure Depth (mm) | Without runners | |
|---|---|---|
| | W (mm) | X (mm) |
| 160 | 140 | 125 |
| 200 | 180 | 165 |
| 250 | 230 | 215 |
| 300 | 280 | 265 |
| 400 | 380 | 365 |

**For mounting plates, see p. 26**

### Active corner

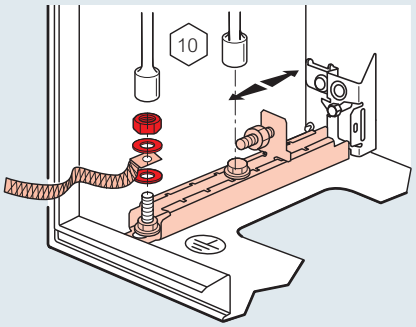
Provides quick and easy fixing
Transfers equipment weight to wall fixings




### Fixing method for runners and depth adjustment brackets

Contact us on +44 (0) 845 605 4333



# Marina wall mounting enclosures
**polyester (GRP) IP 66 - IK 10**

0362 56

0362 76

0362 63 + plinth Cat. No. 0362 92
+ roof Cat. No. 0362 95

0362 55 +
wall brackets Cat. No. 0364 09

0362 56
on stand Cat. No. 0364 36
and crosspieces
Cat. No. 0364 39

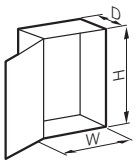
*Technical information and dimensions (p. 19-20)*
*Equipment (p. 23-32)*

Grey RAL 7035
IP 66 according to IEC EN 60529
IK 10 according to IEC EN 62262 (EN 50102)
Class II insulation for final assembly according to IEC EN 60439-1
Glass fibre reinforced polyester (GRP) enclosures
Self extinguishing at 960 °C according to IEC EN 60695-2-11
Designed for corrosive environments
Reversible door, 180° opening(1)
2 x double bar locks(1)
Captive stainless steel hinge pins(1)
Mounting plate/equipment can be fixed directly to the rear of the enclosure
Accepts partial plate from 500 x 400 x 200 mm and/or rails(1)
Optional depth adjustment kit (Cat. No. 0362 42) available for enclosures 400 mm high and above
For wall mounting, wall mounting brackets must be ordered separately

## GRP enclosures

### Plain door

| Pack | Cat. Nos. | External dimensions (mm) Height | Width | Depth | Weight (kg) |
|---|---|---|---|---|---|
| 1 | 0362 50 | 300 | 220 | 160 | 1·75 |
| 1 | 0362 51 | 400 | 300 | 206 | 3·7 |
| 1 | 0362 52 | 500 | 400 | 206 | 5·1 |
| 1 | 0362 55 | 610 | 400 | 257 | 6·4 |
| 1 | 0362 56 | 720 | 510 | 250 | 11·2 |
| 1 | 0362 61 | 820 | 610 | 300 | 15·2 |
| 1 | 0362 63 | 1 020 | 810 | 300 | 21·8 |
| 1 | 0362 64 | 1 220 | 810 | 300 | 25·0 |




### Glazed door with tinted glass window

| Pack | Cat. Nos. | External dimensions (mm) Height | Width | Depth | Window (mm) Height | Width | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 1 | 0362 71 | 400 | 300 | 206 | 235 | 145 | 4·0 |
| 1 | 0362 72 | 500 | 400 | 206 | 335 | 245 | 5·6 |
| 1 | 0362 75 | 610 | 400 | 257 | 463 | 245 | 7·0 |
| 1 | 0362 76 | 720 | 510 | 250 | 570 | 272 | 12·3 |
| 1 | 0362 81 | 820 | 610 | 300 | 672 | 372 | 16·7 |

## Roofs

IK 10

| Pack | Cat. Nos. | For enclosures (mm) Width | Depth |
|---|---|---|---|
| 1 | 0362 93 | 500 | 250 |
| 1 | 0362 94 | 600 | 300 |
| 1 | 0362 95 | 800 | 300 |

## Plinths

Height 170 mm
Front and rear trap door
Possibility to overlap 2 plinths

| Pack | Cat. Nos. | For enclosures (mm) Width | Depth |
|---|---|---|---|
| 1 | 0362 91 | 600 | 300 |
| 1 | 0362 92 | 800 | 300 |

(1) Except Cat. No. 0362 50

## Fixing accessories

IP 66 maintained

**Wall mounting brackets**
Set of 4, supplied with screws

| Pack | Cat.Nos | For enclosures Height (mm) | Max. load (kg) |
|---|---|---|---|
| 1 | 0364 08 | 300 | 100 |
| 1 | 0364 09 | 400 to 1 200 | 150 |

**Rear with threaded rod**

| Pack | Cat.Nos | |
|---|---|---|
| 10 | 0362 40 | M8 for enclosures height ≥ 400 mm<br>Mounting at back of enclosures |

**On ground**
Stand comprised of 2 feet for fixing enclosures high up
Supplied with fixing screws
Hot galvanised steel
Conform to EN 50125-3 (railway applications, fixed installations)

| Pack | Cat.Nos | For enclosures Height (mm) |
|---|---|---|
| 1 | 0364 36 | 400 to 800 |
| 1 | 0364 37 | 1 000 to 1 200 |
| 1 | 0364 39 | Anti-tipping crosspieces |

## Accessories

| Pack | Cat.Nos | |
|---|---|---|
| 1 | 0362 42 | Depth adjustment kit for enclosures ≥ 200 mm<br>4 fixings complete with screws |

**Plain and perforated plates** (see p. 23)

**Modular chassis** (see p. 25)

**Internal doors** (see p. 25)

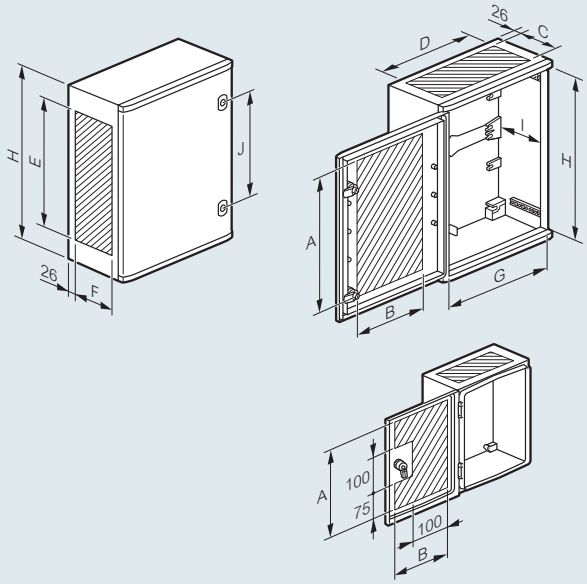
**Sectioned uprights** (see p. 26)

**Crosspieces** (see p. 26)

**Locking accessories** (see p. 28)

# Marina wall mounting enclosures
**polyester (GRP) - IP 66 - IK 10**

## ■ Dimensions, usable areas



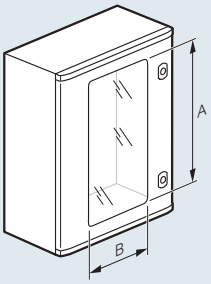

| Cat. Nos. | Usable dimensions (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | A(1) | B(1) | C | D | E | F | G | H | I max. | J |
| 0362 50 | 250 | 150 | 105 | 195 | 250 | 115 | 194 | 280 | 130 | – |
| 0362 51/71 | 300 | 180 | 130 | 250 | 260 | 150 | 260 | 350 | 178 | 200 |
| 0362 52/72 | 400 | 280 | 130 | 350 | 360 | 150 | 360 | 450 | 178 | 300 |
| 0362 55/75 | 500 | 280 | 180 | 350 | 460 | 180 | 360 | 560 | 225 | 400 |
| 0362 56/76 | 600 | 340 | 170 | 400 | 560 | 170 | 460 | 662 | 211 | 400 |
| 0362 61/81 | 700 | 440 | 220 | 500 | 660 | 230 | 560 | 762 | 261 | 500 |
| 0362 63 | 900 | 600 | 220 | 700 | 860 | 230 | 760 | 962 | 261 | 580 |
| 0362 64 | 1 100 | 600 | 220 | 700 | 1 060 | 230 | 960 | 1 162 | 261 | 700 |

(1) Except for enclosures with glass windows

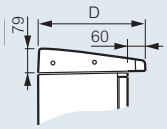
## ■ Dimensions for the window (glass door)

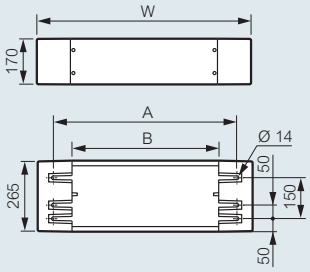
Window centred in height and width

| Cat. Nos. | A (mm) | B (mm) |
|---|---|---|
| 0362 71 | 235 | 145 |
| 0362 72 | 335 | 245 |
| 0362 75 | 463 | 245 |
| 0362 76 | 570 | 272 |
| 0362 81 | 672 | 372 |




## ■ Roofs and plinths



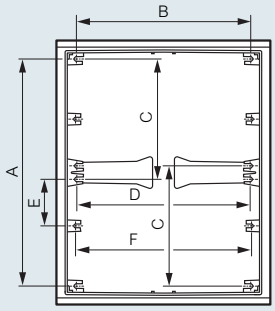




| Roof Cat. Nos. | Width (mm) | D (mm) | Weight (kg) |
|---|---|---|---|
| 0362 93 | 510 | 310 | 1 |
| 0362 94 | 612 | 360 | 1·3 |
| 0362 95 | 812 | 360 | 1·7 |

| Plinth Cat. Nos. | W (mm) | A (mm) | B (mm) | Weight (kg) |
|---|---|---|---|---|
| 0362 91 | 590 | 480 | 344 | 4·8 |
| 0362 92 | 790 | 680 | 544 | 5·4 |

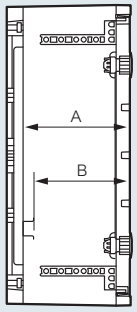
## ■ Equipment fixing

| Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|---|---|---|---|---|---|---|
| 0362 50 | 263 | 163 | – | – | – | – |
| 0362 51/71 | 325 | 225 | 125 | 225 | 102·5 | 228·5 |
| 0362 52/72 | 425 | 325 | 225 | 325 | 87·5 | 228·5 |
| 0362 55/75 | 525 | 325 | 325 | 325 | 95 | 328·5 |
| 0362 56/76 | 625 | 425 | 425 | 425 | 100 | 428·5 |
| 0362 61/81 | 725 | 525 | 525 | 525 | 100 | 528·5 |
| 0362 63 | 925 | 725 | 725 | 725 | 100 | 728·5 |
| 0362 64 | 1 125 | 725 | 925 | 725 | 100 | 728·5 |




## ■ Adjustment of equipment (kit required)

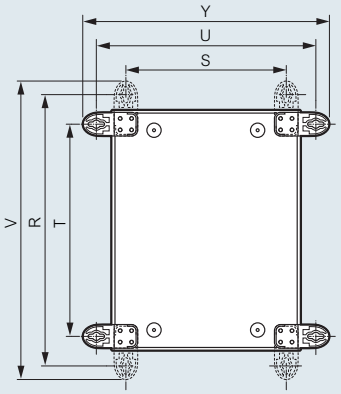
| Cat. Nos. | Full mounting plate (mm) | | Chassis with rail ⊔ (mm) | |
|---|---|---|---|---|
| | A max | A min (with. Cat. No. 0362 42) | B max | B min (with Cat. No. 0362 42) |
| 0362 50 | 135 | – | – | – |
| 0362 51/71 | 170 | 70 | 155 | 55 |
| 0362 52/72 | 170 | 70 | 155 | 55 |
| 0362 55/75 | 220 | 70 | 205 | 55 |
| 0362 56/76 | 220 | 70 | 205 | 55 |
| 0362 61/81 | 270 | 70 | 255 | 55 |
| 0362 63 | 270 | 70 | 255 | 55 |
| 0362 64 | 270 | 70 | 255 | 55 |

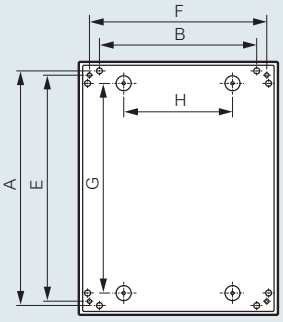



Depth adjustment using kit Cat. No. 0362 42 (except Cat. No. 0362 50)

| Cat. Nos. | Thickness or wall (mm) (indicative dimensions) | | |
|---|---|---|---|
| | Door | Sides | Rear |
| 0362 50 | 2.5 | 2.5 | 2.5 |
| 0362 51/71 | 2.7 | 2.5 | 3 |
| 0362 52/72 | 2.7 | 2.5 | 3 |
| 0362 55/75 | 2.7 | 2.5 | 3 |
| 0362 56/76 | 4 | 3.5 | 3.5 |
| 0362 61/81 | 4 | 3.5 | 3.5 |
| 0362 63 | 4 | 3.5 | 3.5 |
| 0362 64 | 4 | 3.5 | 3.5 |

## ■ Fixing positions for mounting enclosure (maintains IP 66 and Class II)




| Cat. Nos. | On stand Cat. No. 0364 36 and by threaded rods (mm) | | Direct fixing outside mounting equipment area and on stand Cat. No. 0364 37 (mm) | | Direct fixing through rear of enclosure (mm) | | With vertical brackets (mm) | | | With horizontal brackets (mm) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | E | F | G | H | R | S | V | T | U | Y |
| 0362 50(1) | – | – | – | – | 220 | 150 | 330 | 190 | 359 | 270 | 250 | 279 |
| 0362 51/71 | 364 | 218 | 358 | 259 | 325 | 120 | 470 | 241 | 525 | 341 | 370 | 425 |
| 0362 52/72 | 464 | 318 | 458 | 359 | 425 | 220 | 570 | 341 | 625 | 441 | 470 | 525 |
| 0362 55/75 | 574 | 318 | 558 | 358 | 525 | 220 | 680 | 341 | 735 | 551 | 470 | 525 |
| 0362 56/76 | 683 | 427 | 664 | 468 | 600 | 200 | 789 | 441 | 844 | 641 | 579 | 634 |
| 0362 61/81 | 781 | 525 | 764 | 568 | 700 | 300 | 887 | 548 | 942 | 758 | 677 | 732 |
| 0362 63 | – | – | 964 | 768 | 900 | 500 | 1 087 | 748 | 1 142 | 958 | 877 | 932 |
| 0362 64 | – | – | 1 164 | 768 | 1 100 | 500 | 1 287 | 748 | 1 342 | 1 158 | 877 | 932 |

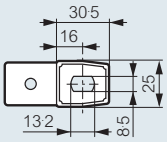
(1) Use Cat. No. 0364 08 wall brackets. Others use Cat. No. 0364 09 wall brackets

# Marina wall mounting enclosures

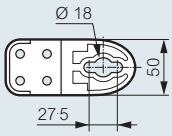
**polyester (GRP) - IP 66 - IK 10 (continued)**

## ■ Wall mounting brackets

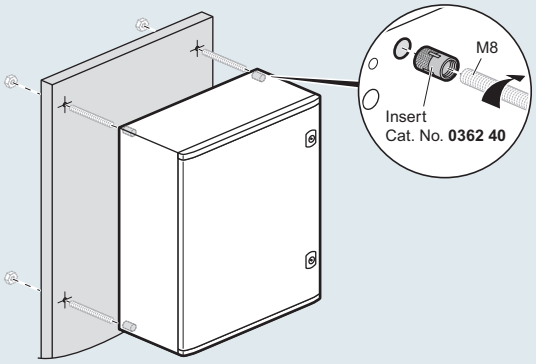
Cat. No. 0364 08
for enclosures height 300 mm



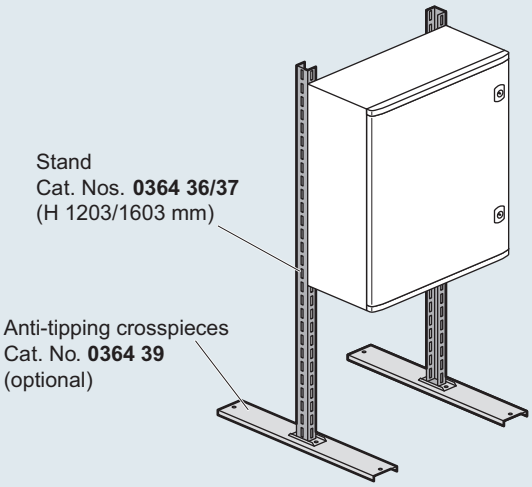

Cat. No. 0364 09
for enclosures height ≥ 400 mm




## ■ Wall fixing by threaded rods



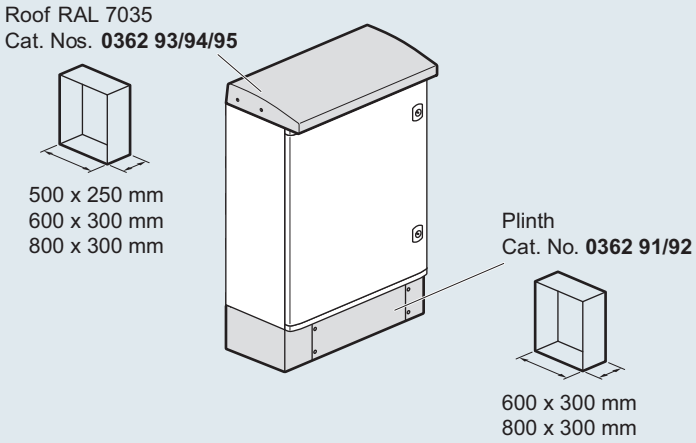

## ■ Floor fixing with stand




Stand Cat. No. 0364 37 is supplied with accessories to maintain IP 66 and Class II at the level of the passthrough fixing

## ■ Floor fixing on plinth

H 170 mm (polyester RAL 7035)



# Marina free standing enclosures and equipment

**polyester (GRP) - IP 66 - IK 10**

0362 85

0362 86 + plinth Cat. No. 0362 96
+ roof Cat. No. 0362 97

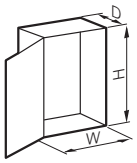
0362 46

*Technical information and dimensions (p. 22)*
*Locking accessories (p. 28)*
*Ventilation and heating (p. 29-32)*

Grey RAL 7035
IP 66 according to IEC EN 60529
IK 10 according to IEC EN 62262 (EN 50102)
Class II insulation for final assembly according to IEC EN 60439-1
Glass fibre reinforced polyester (GRP) enclosures
Self extinguishing at 960 °C according to IEC EN 60695-2-11
Designed for corrosive environments
Stainless steel hinges and hinge pins
Reversible door equipped with equipment mounting bosses
Supplied with two part gland plate and fixing kit for plain plate or sectioned uprights
Three point locking handle with European lock and 2433 A key(1)
Depth adjustment of equipment

## GRP enclosures

| Pack | Cat. Nos. | External dimensions (mm) Height | Width | Depth | Weight (kg) |
|---|---|---|---|---|---|
| 1 | 0362 85 | 1 460 | 800 | 463 | 49 |
| 1 | 0362 86 | 1 660 | 800 | 463 | 53 |
| 1 | 0362 87 | 1 860 | 800 | 463 | 57 |




## Roof

| Pack | Cat. Nos. | For enclosures (mm) Width | Depth |
|---|---|---|---|
| 1 | 0362 97 | 800 | 463 |

## Plinth

Height 170 mm
Front and rear access plates
Stackable for extra height (2 max)

| Pack | Cat. Nos. | For enclosures (mm) Width | Depth |
|---|---|---|---|
| 1 | 0362 96 | 800 | 463 |

## Equipment

**Plain plates**

Galvanised steel. Premarked at 100 mm intervals
Permissible load : 200 kg/m²

| Pack | Cat. Nos. | For enclosures (mm) Height | Width | Net weight (kg) |
|---|---|---|---|---|
| 1 | 0349 59 | 1460 | 800 | 27 |
| 1 | 0349 50 | 1660 | 800 | 30·5 |
| 1 | 0344 18 | 1860 | 800 | 34 |

NEW

## Sectioned uprights

For ⊔ Lina 25 rail, ⊏ rail and Lina 12.5 or Lina 25 plates
Set of 2 uprights galvanised steel

| Pack | Cat.Nos | For enclosures Height (mm) | Length (mm) |
|---|---|---|---|
| 1 | 0363 90 | 1 460 | 1 284 |
| 1 | 0363 91 | 1 660 | 1 484 |
| 1 | 0363 92 | 1 860 | 1 684 |

NEW

## Lifting accessories

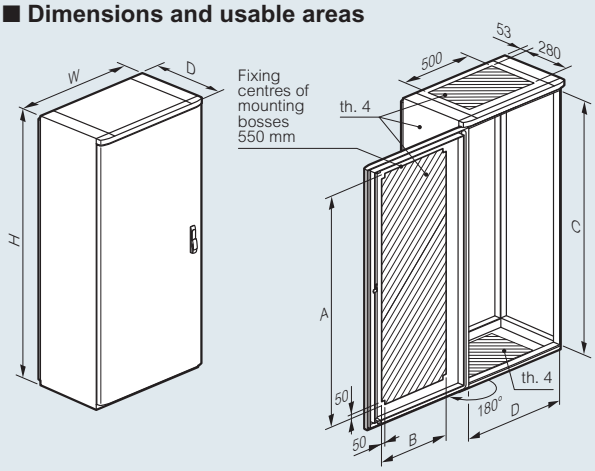
| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0362 46 | Lifting brackets M14<br>Set of 4 brackets for max. load 500 kg/m³<br>Supplied with blanking plates |
| 1 | 0362 48 | Assembly and lifting enclosures kit :<br>- 2 support brackets<br>- screws<br>- weatherproof seal<br>For 500 kg/m³ lifting, order separately one set of 4 brackets Cat. No. 0362 46 |

(1) Other barrels, see p. 28

# Marina free standing enclosures and equipment

**polyester (GRP) - IP 66 - IK 10**

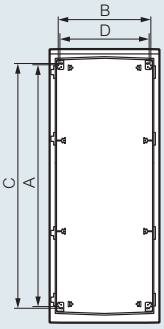
## ■ Dimensions and usable areas




| Cat. Nos. | Dimensions H x W x D (mm) | Usable area (mm) | | | |
|---|---|---|---|---|---|
| | | A | B | C | D |
| 0362 85 | 1 460 x 800 x 463(1) | 1 230 | 530 | 1 300 | 700 |
| 0362 86 | 1 660 x 800 x 463(1) | 1 430 | 530 | 1 500 | 700 |
| 0362 87 | 1 860 x 800 x 463(1) | 1 630 | 530 | 1 700 | 700 |

(1) 487 mm when handle in use

## ■ Equipment fixing

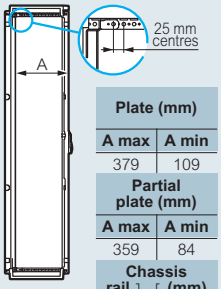



| Cat. Nos. | Plain plate | | Sectioned(1) uprights | |
|---|---|---|---|---|
| | A | B | C | D |
| 0362 85 | 1 225 | 675 | 1 250 | 630 |
| 0362 86 | 1 425 | 675 | 1 450 | 630 |
| 0362 87 | 1 625 | 675 | 1 650 | 630 |

(1) For mounting partial plates

Sectioned uprights are required to fix partial plates in the 1 660 and 1 860 mm enclosures – order separately

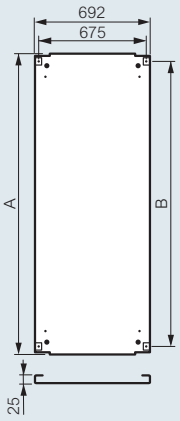
## ■ Equipment adjustment




| Plate (mm) | |
|---|---|
| A max | A min |
| 379 | 109 |
| **Partial plate (mm)** | |
| A max | A min |
| 359 | 84 |
| **Chassis rail ⊔ (mm)** | |
| A max | A min |
| 372 | 97 |

## ■ Mounting plates

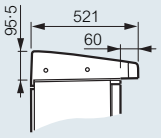
Plain plate




| Enclosure height | Plain | |
|---|---|---|
| | A | B |
| 1 460 | 1 292 | 1 225 |
| 1 660 | 1 492 | 1 425 |
| 1 860 | 1 692 | 1 625 |

## ■ Roof

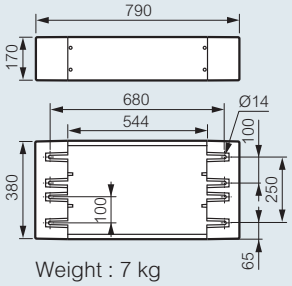
Cat. No. 0362 97




Weight : 2·5 kg
Width : 794 mm

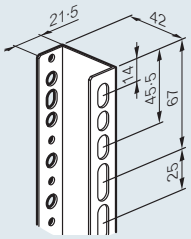
## ■ Plinth

Cat. No. 0362 96




Weight : 7 kg

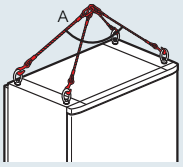
## ■ Sectioned uprights Cat. Nos. 0363 90/91/92



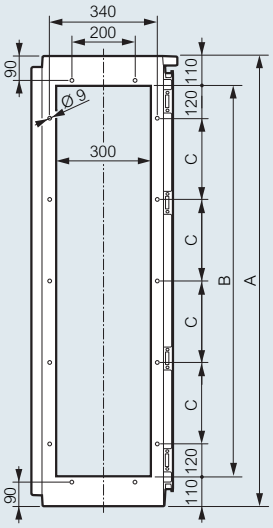

## ■ Suggested lifting method

**4 x 500 kg slings and 4 brackets**

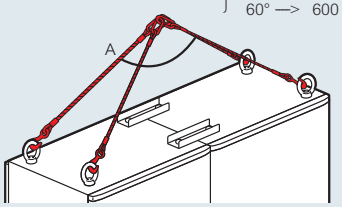
A } 120° —> 250 kg
90° —> 300 kg
60° —> 300 kg



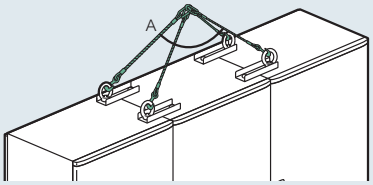

## ■ Assembly and lifting kit Cat. No. 0362 48 and lifting kit Cat. No. 0362 46




A } 120° —> 500 kg
90° —> 600 kg
60° —> 600 kg




A } 90° —> 800 kg
60° —> 900 kg

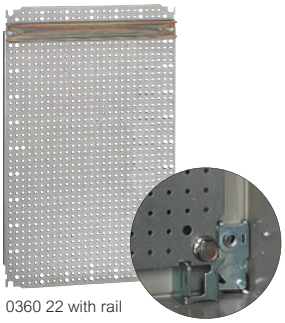



| Cat. Nos. | Enclosure dimensions H x W x D (mm) | Dimensions (mm) | | |
|---|---|---|---|---|
| | | A | B | C |
| 0362 85 | 1 460 x 800 x 463 | 1 460 | 1 240 | 250 |
| 0362 86 | 1 660 x 800 x 463 | 1 660 | 1 440 | 300 |
| 0362 87 | 1 860 x 800 x 463 | 1 860 | 1 640 | 350 |

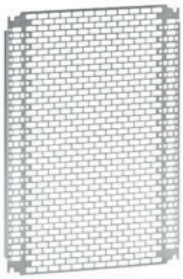
# universal plates for wall mounting enclosures

**Atlantic-E, Atlantic stainless steel and Marina**

0360 55



0360 22 with rail



0360 18

*Technical information and dimensions (p. 24)*

Fixing accessories are supplied in each enclosure

## Plain plates

Not compatible with Atlantic-E enclosures
Pre-galvanised steel
2 mm thick up to 400 x 400
3 mm thick from 400 x 600

| Pack | Cat. Nos. | Vertical mounting for enclosures Height x Width (mm) | Weight (kg) | Horizontal mounting for enclosures Height x Width (mm) |
|---|---|---|---|---|
| 1 | 0360 50 | 300 x 200 | 1 | |
| 1 | 0360 49[1] | 300 x 220 | 0·9 | |
| 1 | 0360 52 | 300 x 400 | 1·3 | 400 x 300 |
| 1 | 0360 56 | 400 x 600 | 3·3 | 600 x 400 |
| 1 | 0360 55 | 500 x 400 | 2·7 | |
| 1 | 0360 59 | 600 x 800 | 8·4 | 800 x 600 |
| 1 | 0360 58 | 700 x 500 | 6 | |
| 1 | 0360 61 | 800 x 1 000 | 14·4 | 1 000 x 800 |
| 1 | 0360 64 | 1 200 x 800 | 18·5 | |
| 1 | 0360 67[2] | 1 400 x 800 | 26·4 | |

## Lina 12·5 perforated plates

Pre-galvanised steel
2 mm thick
Ø 6·5 mm for rivets Cat. No. 0366 44
Ø 3·3 mm for equipment screws Cat. No. 0347 45
(see opposite)

| Pack | Cat. Nos. | Vertical mounting for enclosures Height x Width (mm) | Weight (kg) | Horizontal mounting for enclosures Height x Width (mm) |
|---|---|---|---|---|
| 1 | 0360 00[3] | 300 x 200 | 0·4 | |
| 1 | 0360 01[1] | 300 x 220 | 0·47 | |
| 1 | 0360 02 | 300 x 300 | 0·6 | |
| 1 | 0360 04 | 300 x 400 | 0·8 | 400 x 300 |
| 1 | 0360 05 | 400 x 400 | 1·1 | |
| 1 | 0360 22 | 400 x 600 | 2·2 | 600 x 400 |
| 1 | 0360 09 | 500 x 400 | 1·5 | |
| 1 | 0360 14 | 500 x 500 | 1·85 | |
| 1 | 0360 24 | 600 x 600 | 3·7 | |
| 1 | 0360 33 | 600 x 800 | 5·2 | 800 x 600 |
| 1 | 0360 40 | 600 x 1 000 | 6·8 | 1 000 x 600 |
| 1 | 0360 31 | 700 x 500 | 3·7 | |
| 1 | 0360 34 | 800 x 800 | 7 | |
| 1 | 0360 42 | 800 x 1 000 | 9·2 | 1 000 x 800 |
| 1 | 0360 46 | 1 200 x 800 | 11·1 | |
| 1 | 0360 75 | 1 400 x 800 | 13 | |

## Lina 25 perforated plates

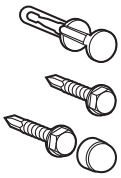
Pre-galvanised steel
1·5 mm thick up to 600 x 400
2 mm thick from 600 x 600
Accepts clip nut fixings (see below)

| Pack | Cat. Nos. | For enclosure dimensions Height x Width (mm) | Weight (kg) |
|---|---|---|---|
| 1 | 0360 07[3] | 300 x 200 | 0·4 |
| 1 | 0360 99 | 300 x 220 | 0·5 |
| 1 | 0360 91 | 300 x 300 | 0·5 |
| 1 | 0360 12 | 400 x 300 | 0·6 |
| 1 | 0360 92 | 400 x 400 | 0·8 |
| 1 | 0360 15 | 500 x 400 | 0·9 |
| 1 | 0360 93 | 500 x 500 | 1·1 |
| 1 | 0360 16 | 600 x 400 | 1·3 |
| 1 | 0360 17 | 600 x 600 | 2·1 |
| 1 | 0360 18 | 700 x 500 | 2 |
| 1 | 0360 19 | 800 x 600 | 3·1 |
| 1 | 0360 20 | 800 x 800 | 4 |
| 1 | 0360 23 | 1 000 x 600 | 3·7 |
| 1 | 0360 21 | 1 000 x 800 | 4·9 |
| 1 | 0360 87 | 1 200 x 800 | 7·1 |
| 1 | 0360 90 | 1 400 x 800 | 7·8 |

## Fixing accessories

**For Lina 12.5 perforated plates**

| | | |
|---|---|---|
| 500 | 0366 44 | Insulated plastic rivets Ø 6 mm for 6 mm holes |
| 100 | 0347 45 | Self piercing tapping hex head screws 4·8 x 16 mm for Ø 3·3 mm holes |
| 200 | 0347 50 | Plastic insulating cap for above |



**For Lina 25 perforated plates**

Supplied without screws

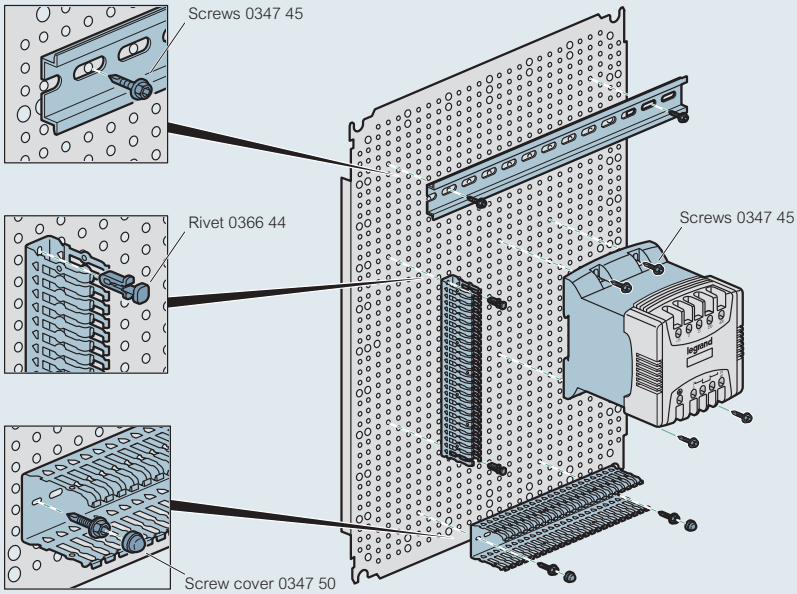
| | | |
|---|---|---|
| 100 | 0364 40 | Clip nuts for M4 screw |
| 100 | 0364 42 | Clip nuts for M6 screw |

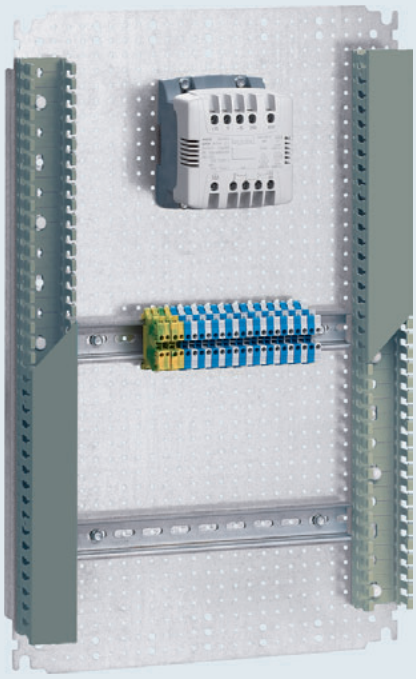
(1) For Marina enclosure only
(2) For Atlantic stainless steel enclosures only
(3) For Atlantic-E and Atlantic stainless steel enclosures

# universal plates for wall mounting enclosures

**Atlantic-E, Atlantic stainless steel and Marina**

## ■ Mounting principle



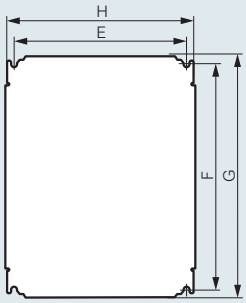



Fixing example on Lina 12·5 plate:
- of a transformer with screws Cat. No. 0347 45
- of a rail with Viking 3 terminals (p. 132)
- of Transcab panel trunking (p. 50)

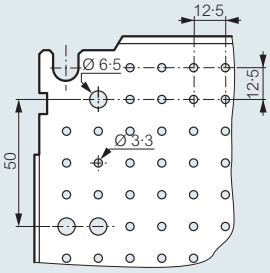
## ■ Dimensions

**Plain plates, Lina 12·5 and Lina 25 perforated plates**

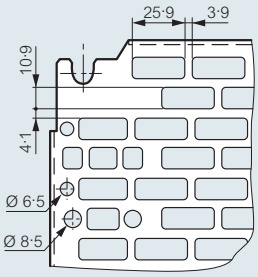
Plain plate




Lina 12·5 perforated plate

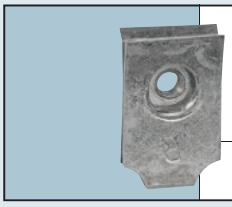



Lina 25 perforated plate




| Enclosure dimensions Height x Width (mm) | Dimensions of plates Plain / Lina 12·5 / 25 plates | | Usable space for equipment ($dm^2$) | Mounting of plates | |
|---|---|---|---|---|---|
| | G (mm) | H (mm) | | F (mm) | E (mm) |
| **300 x 200** | 256 | 156 | 4.2 | 225 | 125 |
| **300 x 220** | 275 | 192 | 5.3 | 263 | 163 |
| **300 x 300** | 256 | 256 | 6.2 | 225 | 225 |
| **300 x 400**(1) | 256 | 356 | 8.2 | 225 | 325 |
| **400 x 300**(1) | 356 | 256 | 8.2 | 325 | 225 |
| **400 x 400** | 356 | 356 | 11.7 | 325 | 325 |
| **400 x 600**(1) | 356 | 556 | 18.7 | 325 | 525 |
| **500 x 400** | 456 | 356 | 15.2 | 425 | 325 |
| **500 x 500** | 456 | 456 | 19.2 | 425 | 425 |
| **600 x 400**(1) | 556 | 356 | 18.7 | 525 | 325 |
| **600 x 600** | 556 | 556 | 29.7 | 525 | 525 |
| **600 x 800**(1) | 556 | 756 | 40.7 | 525 | 725 |
| **600 x 1000**(1) | 556 | 956 | 51.7 | 525 | 925 |
| **700 x 500** | 656 | 456 | 28.7 | 625 | 425 |
| **800 x 600**(1) | 756 | 556 | 40.7 | 725 | 525 |
| **800 x 800** | 756 | 756 | 55.7 | 725 | 725 |
| **800 x 1000**(1) | 756 | 956 | 71.7 | 725 | 925 |
| **1000 x 600**(1) | 956 | 556 | 51.7 | 925 | 525 |
| **1000 x 800**(1) | 956 | 756 | 70.7 | 925 | 725 |
| **1000 x 1000** | 956 | 956 | 89.7 | 925 | 925 |
| **1000 x 1200**(1) | 956 | 1156 | 108.7 | 925 | 1125 |
| **1200 x 800** | 1156 | 756 | 85.7 | 1125 | 725 |
| **1200 x 1000**(1) | 1156 | 956 | 108.7 | 1125 | 925 |
| **1200 x 1200** | 1156 | 1156 | 131.7 | 1125 | 1125 |
| **1400 x 800** | 1356 | 756 | 100.7 | 1325 | 725 |
| **1400 x 1000** | 1356 | 956 | 127.7 | 1325 | 925 |

(1) For horizontal or vertical mounting



**For fixings**

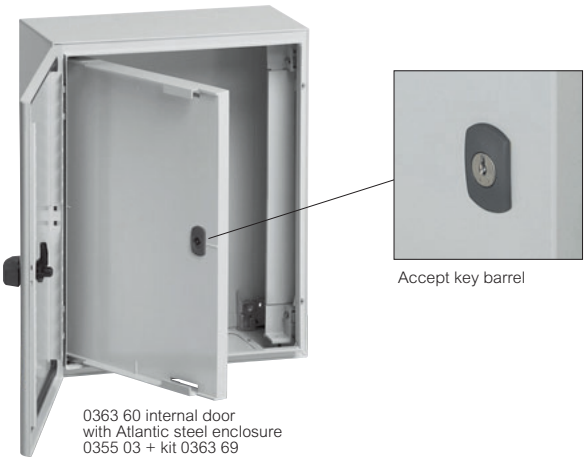
**see p. 23**

# chassis and internal doors for wall mounting enclosures

**Atlantic-E, Atlantic stainless steel and Marina**

0361 03

0361 03 mounted in enclosure



Accept key barrel

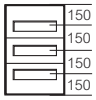
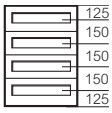
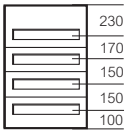
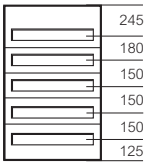
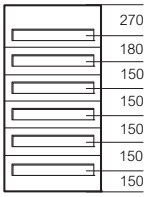
0363 60 internal door with Atlantic steel enclosure 0355 03 + kit 0363 69

*Technical information and dimensions (p. 27)*

## Insulated modular chassis

Grey RAL 7035
Separate ABS front plate per row
Supplied in kit form with metal uprights and crosspieces
Symmetrical rails ⊔ depth 15 mm
Fixings supplied with enclosure
Self extinguishing 750 °C

For enclosure dimensions
Height x Width x Depth (mm)

| Pack | Cat. Nos. | | |
|---|---|---|---|
| 1 | 0361 01 | **400 x 300 x 200**<br>30 modules (3 rows of 10)<br>Supplied with 1 blanking plate | |
| 1 | 0361 02 | **500 x 400 x 200**<br>48 modules (3 rows of 16)<br>Supplied with 1 blanking plate | |
| 1 | 0361 03 | **600 x 400 x 250**<br>48 modules (3 rows of 16)<br>Supplied with 1 blanking plate |   |
| 1 | 0361 05 | **700 x 500 x 250**<br>84 modules (4 rows of 21)<br>Supplied with 1 blanking plate |   |
| 1 | 0361 06 | **800 x 600 x 300**<br>108 modules (4 rows of 27)<br>Supplied with 2 blanking plates |   |
| 1 | 0361 09 | **1 000 x 800 x 300**<br>190 modules (5 rows of 38)<br>Supplied with 2 blanking plates |   |
| 1 | 0361 10 | **1 200 x 800 x 300**<br>228 modules (6 rows of 38)<br>Supplied with 2 blanking plates |   |

## Blanking plate for windows

| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0361 00 | For enclosures up to 800 mm wide<br>Blanking plate to suit up to 670 x 45 mm window<br>To be cut to required length<br>38 modules, length 684 mm |

## Internal doors

Grey RAL 7035 - IP xxB
Fit Marina enclosures
Also suitable for Atlantic stainless steel enclosures when used with mounting kit Cat. No. 0363 69
Not compatible with Atlantic-E enclosures
For mounting of control and signalling units
Reversible, easy to fix, robust 4 mm thick GRP construction
Left or right opening with built in grip
Captive hinge pins
Double bar lock : 1 lock for height 400 to 600 mm
2 locks for height ≥ 700 mm

| Pack | Cat. Nos. | For enclosures (mm) H x W | Dim. (mm) H x W | Usable area (mm) H x W |
|---|---|---|---|---|
| 1 | 0363 59 | 400 x 300 | 341 x 236 | 305 x 185 |
| 1 | 0363 60 | 500 x 400 | 441 x 336 | 405 x 250 |
| 1 | 0363 61 | 600 x 400 | 541 x 336 | 505 x 250 |
| 1 | 0363 62 | 700 x 500 | 642 x 436 | 500 x 340 |
| 1 | 0363 63 | 800 x 600 | 742 x 536 | 600 x 440 |
| 1 | 0363 64 | 1 000 x 800 | 942 x 736 | 800 x 640 |
| 1 | 0363 65[1] | 1 200 x 800 | 942 x 736 | 800 x 640 |

## Accessory

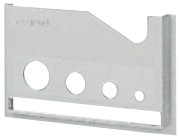
| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0363 69 | Mounting kit for Atlantic stainless steel enclosures |

(1) Door identical to Cat. No. 0363 64 with 200 mm upper or lower reservation

# equipment and fixing accessories for wall mounting enclosures

**Atlantic-E, Atlantic stainless steel and Marina**

Uprights + crosspieces (subject to size)
Pocket Cat. No. 0365 80



0365 81

0367 80

0364 40

0347 45

0366 44

0347 50

*Technical information and dimensions (p. 27)*

## Lina 25 sectioned uprights

**Set of 2 sectioned uprights**
For dimensions, see p. 27

| Pack | Cat. Nos. | For enclosures height (mm) | Length of uprights (mm) | Thickness (mm) | Profile |
|---|---|---|---|---|---|
| 5 | 0361 50 | 300 | 237 | 2·5 | L |
| 5 | 0361 51 | 400 | 337 | 2·5 | |
| 5 | 0361 52 | 500 | 437 | 2·5 | |
| 5 | 0361 53 | 600 | 537 | 2·5 | |
| 5 | 0361 54 | 700 | 637 | 2·5 | |
| 5 | 0361 55 | 800 | 737 | 2·5 | |
| 5 | 0361 56 | 1 000 | 937 | 2·5 | |
| 5 | 0361 58 | 1 200 | 1 137 | 2·5 | |
| 5 | 0361 59 | 1 400 | 1 337 | 2·5 | |

## Lina 25 crosspieces

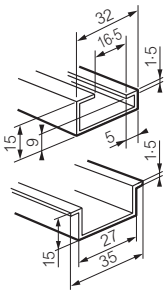
Crosspieces ready to assemble (excluding fixings)
For dimensions, see p. 27

| Pack | Cat. Nos. | For enclosures width (mm) | Crosspiece length (mm) |
|---|---|---|---|
| 10 | 0367 80 | 300 | 243 |
| 10 | 0367 81 | 400 | 343 |
| 10 | 0367 82 | 500 | 443 |
| 10 | 0367 83 | 600 | 543 |
| 10 | 0367 84 | 800 | 743 |

## Rails

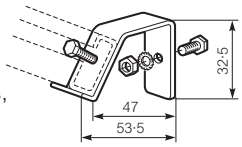
2 m length
For dimensions, see p. 27

| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0374 02 | EN 60715 |
| 10 | 0374 07 | Symmetrical, depth 15 mm |




## 45° mounting bracket

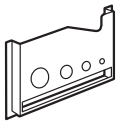
| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0394 49 | Set of 2 supports for tilting a rail at an angle of 45° Supplied with 4 x M6 screws, nuts and washers |




## Self-adhesive document pockets

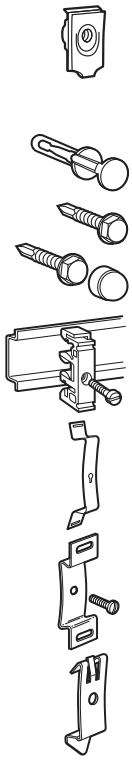
RAL 7035

| Pack | Cat. Nos. | External dimensions (mm) Width x Height | Internal dimensions (mm) Width x Height x Depth |
|---|---|---|---|
| 20 | 0365 80 | 340 x 235 | 310 x 200 x 18 |
| 20 | 0365 81 | 260 x 165 | 230 x 130 x 18 |



## Fixing accessories

| Pack | Cat. Nos. | |
|---|---|---|
| | | **For Lina 25 perforated plates** |
| | | Supplied without screws |
| 100 | 0364 40 | Clip nuts for M4 screw |
| 100 | 0364 42 | Clip nuts for M6 screw |
| | | **For Lina 12.5 perforated plates** |
| 500 | 0366 44 | Insulated plastic rivets Ø 6 mm for 6 mm holes |
| 100 | 0347 45 | Self piercing tapping hex head screws 4·8 x 16 mm for Ø 3·3 mm holes |
| 200 | 0347 50 | Plastic insulating cap for above |
| | | **For rails EN 60715** |
| 100 | 0364 78 | For M4 mm screw |
| | | **For rail EN 60715** |
| 10 | 0044 16 | Claw width 10 mm Threaded hole For M4 screw |
| 10 | 0044 17 | Claw width 17·5 mm Smooth hole Ø 3·8 mm Supplied with fixing screw Ø 3·5 mm Length 13 mm |
| 40 | 0364 69 | Fixomega for M4 screw |

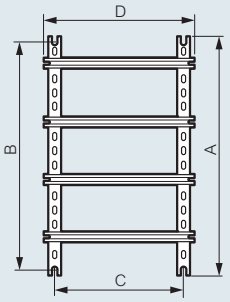


**Lina perforated plates** (see p. 23)

# equipment and fixing accessories for wall mounting enclosures

**Atlantic-E, Atlantic stainless steel and Marina**

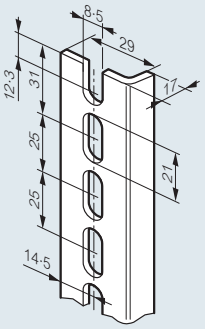
## ■ Assembled chassis with crosspieces and Lina 25 uprights



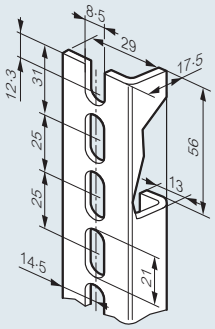

| Enclosure dimensions Height x Width (mm) | Crosspiece length | Crosspiece length | Chassis fixing | |
|---|---|---|---|---|
| | A (mm) | D (mm) | B (mm) | C (mm) |
| 300 x 300 | 237 | 243 | 225 | 225 |
| 300 x 400 | 237 | 343 | 225 | 325 |
| 400 x 300 | 337 | 243 | 325 | 225 |
| 400 x 400 | 337 | 343 | 325 | 325 |
| 400 x 600 | 337 | 543 | 325 | 525 |
| 500 x 400 | 437 | 343 | 425 | 325 |
| 500 x 500 | 437 | 443 | 425 | 425 |
| 600 x 400 | 537 | 343 | 525 | 325 |
| 600 x 600 | 537 | 543 | 525 | 525 |
| 700 x 500 | 637 | 443 | 625 | 425 |
| 800 x 600 | 737 | 543 | 725 | 525 |
| 800 x 800 | 737 | 743 | 725 | 725 |
| 1000 x 600 | 937 | 543 | 925 | 525 |
| 1000 x 800 | 937 | 743 | 925 | 725 |
| 1200 x 800 | 1137 | 743 | 1125 | 725 |

## ■ Lina 25 sectioned uprights

Cat. Nos. 0361 50/51/52/53/54/55/56

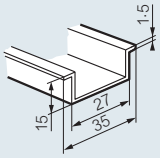


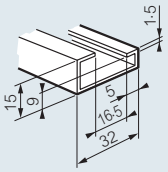

Cat. No. 0361 58




## ■ Crosspieces/rails

Cat. Nos. 0367 80/81/82/83/84




See p. 26 for crosspieces/rails

## ■ Clip nuts

See p. 26 for clip nuts

## ■ Insulated modular chassis

Fixes to corner fixings inside enclosure
Chassis can fit steel or polyester enclosures

0361 03 fitted into enclosure

**Space between door and chassis front**

- Atlantic stainless steel } Depth 250 : 80 mm
- Marina } Depth 300 : 90 mm

The front sections can only be removed using a tool (flat blade screwdriver)

Glow wire tested : 5s at 750 °C

# locking accessories
## for Atlantic stainless steel and Marina enclosures

| Pack | Cat. Nos. | Lock housings for rebate or cylinder locks |
|---|---|---|
| | | Interchangeable for Atlantic stainless steel and Marina enclosures |
| 10 | 0368 04 | Plastic housing (excludes barrel and cam) |
| 10 | 0368 05 | Handle With blank (excludes cam) |
| 10 | 0368 06 | Handle Fitted with locking barrel 2433 A (excludes cam) |

| | | Locking cams |
|---|---|---|
| 10 | 0365 30 | For Marina enclosures |
| 10 | 0368 43 | For Atlantic stainless steel 1 door enclosures |
| 10 | 0368 44 | For Atlantic stainless steel 2 door enclosures |
| | | **Note :** Cam nuts are supplied with the handle or housing |

| | | Metal rebate lock barrels |
|---|---|---|
| 10 | 0368 17 | 6·5 mm male triangle |
| 10 | 0368 18 | 8 mm male triangle |
| 10 | 0368 19 | 11 mm male triangle |
| 10 | 0368 20 | Double bar |

| | | Key barrels |
|---|---|---|
| | | Supplied with set of 2 keys For key No : |
| 10 | 0368 22 | 405 |
| 10 | 0368 23 | 421 |
| 10 | 0368 24 | 455 |
| 10 | 0368 25 | 1242 E |
| 10 | 0368 26 | 2433 A |
| 10 | 0368 27 | 3113 A |
| 10 | 0365 45 | Set of two 2433 A keys |

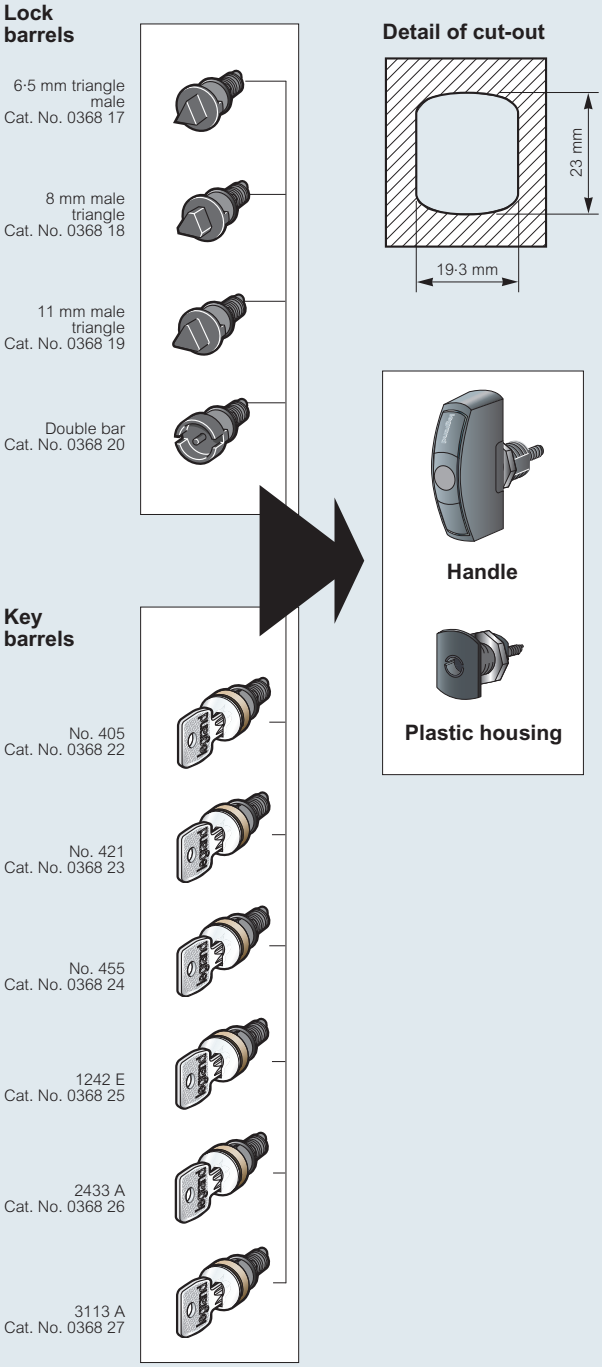
| | | Keys for rebate locks |
|---|---|---|
| 10 | 0365 39 | For 6·5 mm male triangle lock |
| 10 | 0365 40 | For 8 mm male triangle lock |
| 10 | 0365 41 | For 11 mm male triangle lock |
| 10 | 0365 42 | Double bar |

| | | Padlocking |
|---|---|---|
| | | **Padlock adaptor** |
| 1 | 0365 11 | Metal painted black-grey RAL 7021 Fits over door handles to provide security Accepts up to 3 padlocks |

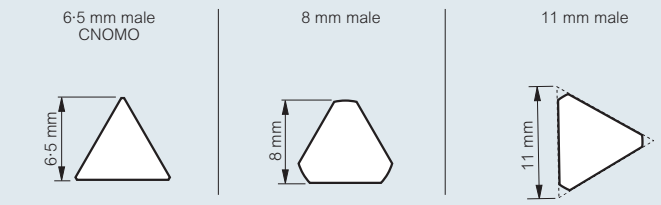
# locking accessories
## for Atlantic stainless steel and Marina enclosures

### ■ Universal locking system[1]

The locks can be assembled and fitted to all Atlantic stainless steel and Marina enclosures




### Dimensions of special triangle locks




(1) The metal locks (special barrels and key barrels) and lock barrels are all compatible with each other

# ventilation for enclosures

0348 17

0365 79

0348 04

0348 52

0348 89

0348 05

0348 35

*Technical information and dimensions (p. 30, 32)*

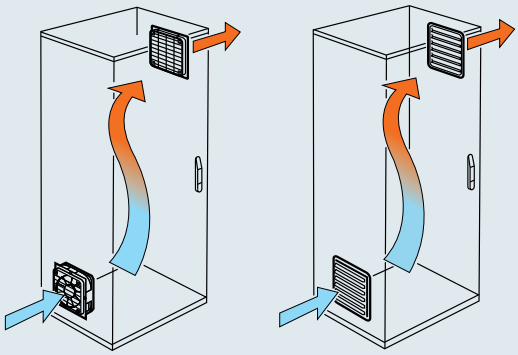
| Pack | Cat. Nos. | Ventilation fan kit with metal grill |
|---|---|---|
| 1 | 0348 17 | IP 32 - IK 10<br>230 V - 50/60 Hz<br>RAL 7035<br>Ventilator is mounted on the outside of the enclosure<br>30 m³/h with filter - 160 m³/h without filter installed (free flowing)<br>Pack comprising a pair of metal RAL 7035 louvres and a pair of anti-insect grills, plus internal finger protection |

| Pack | Cat. Nos. | Ventilation fan kits with plastic grill |
|---|---|---|
| | | IP 54 - IK 08<br>230 V - 50/60 Hz<br>RAL 7035 plastic housing<br>Supplied with finger protection guards<br>External projection 7-10 mm<br>Accepts mounting spacer Cat. No. 0348 88/89<br>Used to reduce internal projection and improve wiring space<br>Fitted externally on to the enclosure with rapid fix screws<br>1 mm to 4 mm panel thickness<br>An extra louvre can be fitted to improve air flow and extraction |
| 1 | 0348 50 | **40/160 m³/h**<br>40 m³ with filter<br>160 m³ with extra grill/filter Cat. No. 0348 34<br>160 m³ without filter installed (free flowing)<br>Pack comprising a pair of RAL 7035 plastic grills 150 x 150 mm and washable electrostatic filter EU3, G3 |
| 1 | 0348 51 | **120/160 m³/h**<br>120 m³ with filter<br>130 m³ with extra grill/filter Cat. No. 0348 35<br>160 m³ without filter installed (free flowing)<br>Pack comprising a pair of RAL 7035 plastic grills 250 x 250 mm and washable filter EU3, G3 |
| 1 | 0348 52 | **240/450 m³/h**<br>240 m³ with filter<br>260 m³ with extra grill/filter Cat. No. 0348 35<br>450 m³ without filter installed (free flowing)<br>Pack comprising a pair of RAL 7035 plastic grills 250 x 250 mm and washable filter EU3, G3 |

| Pack | Cat. Nos. | Spacers for ventilation fan kits |
|---|---|---|
| | | IP 54 maintained<br>RAL 7035<br>Used to reduce the internal projection and increase the internal usable volume |
| 1 | 0348 88 | 150 x 150 mm |
| 1 | 0348 89 | 250 x 250 mm |

| Pack | Cat. Nos. | Natural ventilation |
|---|---|---|
| | | **Ventilation glands** |
| | | IP 44 - IK 08 for outdoor use<br>Grey polyamide |
| 2 | 0365 78 | Ø 15 mm aperture needed |
| 2 | 0365 79 | Ø 30·5 mm aperture needed |
| | | **Ventilation louvres - metal** |
| | | IP 32 - IK 10<br>RAL 7035<br>Pack comprising a pair of metal louvres and a pair of anti-insect grills |
| 1 | 0348 04 | 138 x 138 mm |
| 1 | 0348 05 | 248 x 248 mm |
| | | **Ventilation louvres - plastic** |
| | | RAL 7035<br>Supplied singly |
| | | Supplied with 10 mm thick filter EU 3, G3 |
| 1 | 0348 34 | IP 44 - 150 x 150 mm |
| | | Supplied with 20 mm thick filter EU 3, G3 |
| 1 | 0348 35 | IP 54 - 250 x 250 mm |
| 1 | 0348 36 | IP 54 - 325 x 325 mm |

## ■ Operating principle



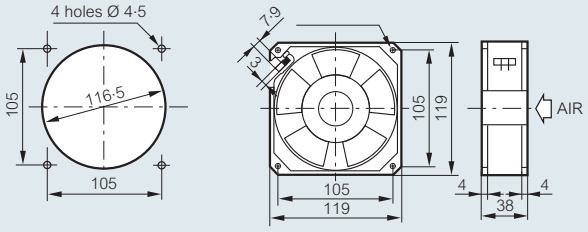
Ventilators, louvres and spacers

Natural ventilation

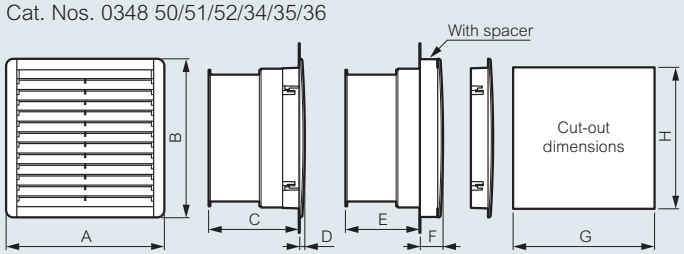
## ■ Ventilation fan kits, louvres and spacers

### Dimensions and cut-outs

Cat. No. 0348 17




Cat. Nos. 0348 50/51/52/34/35/36




| Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| **0348 50** | 150 | 150 | 70 | 7 | 43 | 34 | 125 | 125 |
| **0348 51** | 250 | 250 | 105 | 8 | 78 | 35 | 223 | 223 |
| **0348 52** | 250 | 250 | 123 | 8 | 96 | 35 | 223 | 223 |
| **0348 34** | 150 | 150 | – | 7 | – | 34 | 125 | 125 |
| **0348 35** | 250 | 250 | – | 8 | – | 35 | 223 | 223 |
| **0348 36** | 325 | 325 | – | 10 | – | 37 | 291 | 291 |

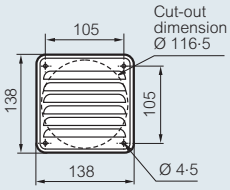
### Technical characteristics

| Cat. Nos. | 0348 17 | 0348 50 | 0348 51 | 0348 52 |
|---|---|---|---|---|
| Voltage (V)/phase | 220-240/1 | 230/1 | 230/1 | 220-240/1 |
| Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 |
| No load flow ventilation only (m³/h) | 160 | 160 | 160 | 240 |
| On load flow - with an output louvre (supplied) | 30 | 40 | 100 | 170 |
| Static pressure (mm of water) | 100 | 66 | 51 | 111 |
| Power down (W) | 22 | 20 | 20 | 29 |
| Current drown (A) | 0·14 | 0·125 | 0·125 | 0·426 |
| Operating temperature | –10 °C/+50 °C | | | |
| IP/IK | 32/10 | 54/08 | 54/08 | 54/08 |
| Sound level (dB) | 49 | 43 | 43 | 50 |
| Weight (kg) | 0·72 | 0·8 | 1·4 | 1·7 |

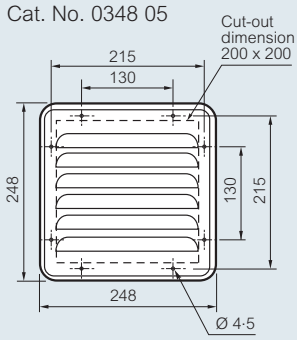
## ■ Natural ventilation

### Dimensions and cut-outs

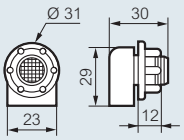
Cat. No. 0348 04



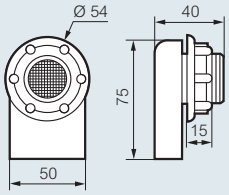

Cat. No. 0348 05




Cat. No. 0365 78




Cat. No. 0365 79



# heating for enclosures

heating for enclosures

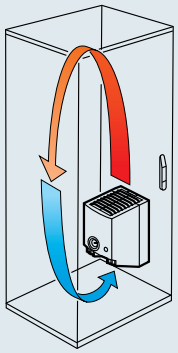
0353 08

0348 47

*Technical information and dimensions (opposite)*

| Pack | Cat. Nos. | Heating | |
|---|---|---|---|
| | | **Resistance heaters 120 V / 240 V∿⎓** | |
| | | IP 20<br>Prevent condensation forming inside the enclosure<br>“ PTC “ auto-regulated and surface temperature limited : t = 70 °C<br>Heat dissipator in black aluminium oxide<br>Fix on rail ⊔ | |
| | | Power | Current rating |
| 1 | 0353 06 | 20 W | 2·5 A |
| 1 | 0353 07 | 50 W | 2·5 A |
| 1 | 0353 08 | 100 W | 4·5 A |
| 1 | 0353 09 | 150 W | 8·0 A |
| | | **Thermostat** | |
| | | Precision 0·5 °C (neutral connected)<br>Switching and control range : 2 °C<br>230 V - 50/60 Hz<br>12 to 250 V∿ (requires neutral)<br>Contact rating : 10 A max. (5 A closing)<br>NO contact : 10 A, 250 V∿<br>NC contact : 5 A, 250 V∿<br>Adjustable from 5 to 60 °C with NO/NC contact | |
| 1 | 0348 47 | Fix on rail ⊔ | |

## ■ Operating principle

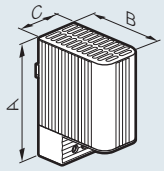


Heating

## ■ Dimensions

**Resistance heaters**

Cat. Nos. 0353 06/07/08/09

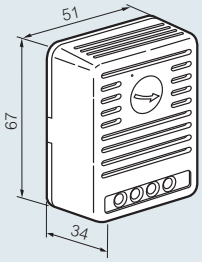



| Cat. Nos. | Power | A | B | C |
|---|---|---|---|---|
| **0353 06** | 20 W | 98 | 75 | 38 |
| **0353 07** | 50 W | 110 | 90 | 60 |
| **0353 08** | 100 W | 110 | 90 | 60 |
| **0353 09** | 150 W | 150 | 90 | 60 |

Vertical installation at the bottom of the enclosure
Air circulation :
- ensure clearance >50 mm all round the device
- do not cover

**Resistance heaters**

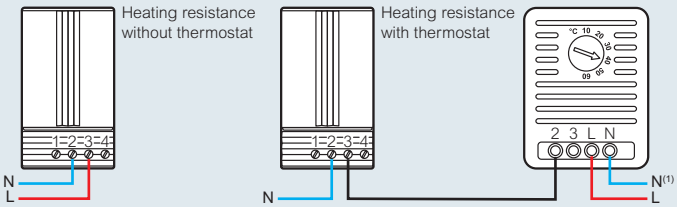
Cat. No. 0348 47



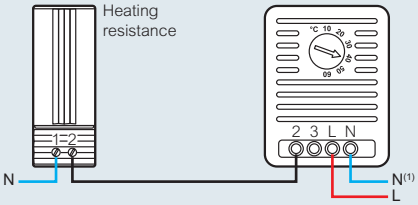

Vertical installation at the bottom of the enclosure
Recommended clearance around heat regulation products for optimal air circulation :
- ensure clearance >50 mm all round the device
- do not cover

## ■ Wiring diagram

Cat. Nos. 0353 07/08/09




Cat. No. 0353 06 Thermostat Cat. No. 0348 47




(1) Connection accelerating resistance

## ■ Technical information

**Three factors should be considered :**

- The surface area of the enclosure : Sc ($m^2$)
- The maximum permissible temperature : Δt (°C)
- The power dissipation of the equipment : P(W)

**Operating procedure :**

**1.** Determine the surface area (Sc) of the enclosure using the charts below
The values indicated take into account the shape of the enclosure

### Atlantic enclosures

| Dimensions (mm) Height x Width x Depth | Sc ($m^2$) |
|---|---|
| 300 x 200 x 160 | 0·15 |
| 300 x 300 x 200 | 0·28 |
| 300 x 400 x 200 | 0·28 |
| 400 x 300 x 200 | 0·25 |
| 400 x 400 x 200 | 0·32 |
| 500 x 400 x 200 | 0·35 |
| 600 x 400 x 200 | 0·36 |
| 400 x 600 x 250 | 0·46 |
| 500 x 400 x 250 | 0·41 |
| 500 x 500 x 250 | 0·47 |
| 600 x 400 x 250 | 0·46 |
| 600 x 600 x 250 | 0·61 |
| 700 x 500 x 250 | 0·56 |
| 800 x 600 x 250 | 0·71 |
| 800 x 800 x 250 | 0·87 |
| 800 x 1000 x 250 | 0·97 |
| 1000 x 600 x 250 | 0·77 |
| 1000 x 800 x 250 | 0·96 |

| Dimensions (mm) Height x Width x Depth | Sc ($m^2$) |
|---|---|
| 600 x 600 x 300 | 0·76 |
| 700 x 500 x 300 | 0·79 |
| 800 x 600 x 300 | 0·78 |
| 800 x 800 x 300 | 0·95 |
| 800 x 1000 x 300 | 1·08 |
| 1000 x 600 x 300 | 0·86 |
| 1000 x 800 x 300 | 1·05 |
| 1000 x 1000 x 300 | 1·16 |
| 1200 x 800 x 300 | 1·15 |
| 1200 x 1000 x 300 | 1·36 |
| 1200 x 1200 x 300 | 1·55 |
| 1400 x 1000 x 300 | 1·41 |
| 600 x 600 x 400 | 0·79 |
| 800 x 600 x 400 | 1·07 |
| 1000 x 800 x 400 | 1·55 |
| 1200 x 800 x 400 | 1·33 |
| 1200 x 1200 x 400 | 1·75 |
| 1400 x 800 x 400 | 1·72 |

### Marina enclosures

| Dimensions (mm) Height x Width x Depth | Sc ($m^2$) |
|---|---|
| 300 x 220 x 160 | 0·14 |
| 405 x 305 x 200 | 0·31 |
| 505 x 405 x 200 | 0·36 |
| 605 x 405 x 250 | 0·41 |
| 728 x 518 x 250 | 0·52 |
| 828 x 618 x 300 | 0·72 |
| 1028 x 818 x 300 | 0·96 |
| 1508 x 908 x 400 | 1·50 |
| 1800 x 800 x 400 | 1·10 |

**2.** Calculation : Once you know the Sc of your enclosure and the admissible temperature Δt (°C), determine the maximum power dissipation of the unequipped enclosure. If the result is less than the heat dissipation required then a cooling system must be installed

**Note :**
Heat exchangers and air conditioners are available to special order, details are available on request
Contact us on +44 (0) 845 605 4333

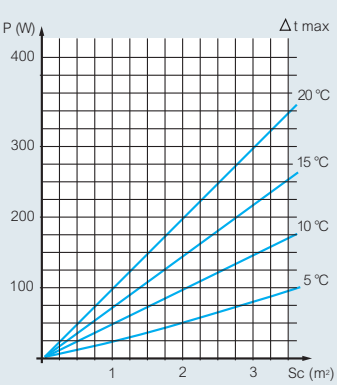
**3.** Consult the relevant curve to check that heat dissipation is at least equal to the heat dissipation value corresponding to maximum permissible heat-up

## ■ Ventilation

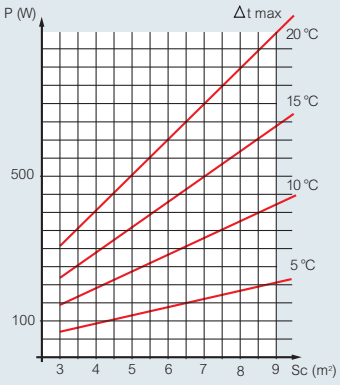
The curves below enable the user to determine whether the enclosure must have a ventilation system, based on 3 parameters :
- Δt °C between t° ambient and t° maximum to be obtained at the hottest point
- power dissipated in watts [ P (W) ]
- effective surface area of enclosure Sc

**Natural dissipation for an unequipped enclosure**

Sc up to 3 $m^2$



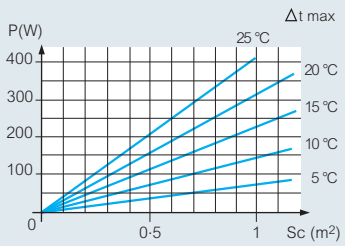

Sc above 3 $m^2$



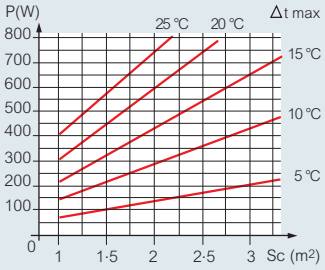

## ■ Heating

Determine the overall power absorbed by heating elements to be installed according to the effective surface area - Sc - of the enclosure and the desired increase Δt

Sc up to 1 $m^2$




Sc above 1 $m^2$



# Plexo³ weatherproof enclosures and accessories NEW

**IP 65 - IK 09**

6019 74

6019 82

0019 66

0019 55

*Technical information and dimensions (p. 34)*

IP 65 - IK 09 - Class II
Self-extinguishing : resistance to incandescent wire 650 °C
Conform to EN 60439-3
Door and enclosure fully reversible
Removable chassis and faceplates from 2 row versions up
2 position rail for modular products and moulded cases
Spacing between rails 150 mm
Can be fitted with perforated plates and solid faceplates for mounting non-modular products
Lockable door handle, sealable cover and faceplate
Shock-resistant polystyrene material
Box colour light grey L750A, cover colour dark grey R746A
Supplied without terminal blocks

## Enclosures 2 to 8 modules

| Pack | Cat. Nos. | Number of rows | Number of modules |
|---|---|---|---|
| 1 | 6019 32 | 1 | 2 (+1) |
| 1 | 6019 74 | 1 | 4 |
| 1 | 6019 76 | 1 | 6 |
| 1 | 6019 78 | 1 | 8 |

## Enclosures 12 modules per row

| Pack | Cat. Nos. | Number of rows | Number of modules |
|---|---|---|---|
| 1 | 6019 81 | 1 | 12 |
| 1 | 6019 82 | 2 | 24 |
| 1 | 6019 83 | 3 | 36 |

## Enclosures 18 modules per row

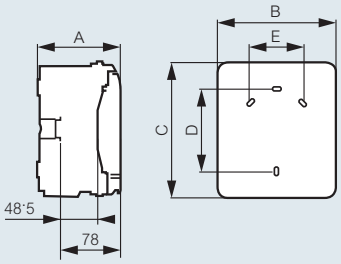
| Pack | Cat. Nos. | Number of rows | Number of modules |
|---|---|---|---|
| 1 | 6019 85 | 1 | 18 |
| 1 | 6019 86 | 2 | 36 |
| 1 | 6019 87 | 3 | 54 |
| 1 | 6019 88 | 4 | 72 |

## Accessories

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Key lock** |
| 1 | 0019 66 | N° 850 |
| | | **Sealing kit** |
| 1 | 0019 68 | Set of 2 sealable terminal shields for cover and 8 sealable supports for faceplate |
| | | **Wall mounting brackets** |
| 1 | 0019 69 | Set of 4 |
| | | **Blanking plates** |
| 20 | 0019 61 | 5, separable into modules or 1/2 module Grey R746A |
| | | **Direct piercing end caps** |
| 1 | 0019 55 | Pack consisting of 2 Ø32 mm ISO end caps, 5 Ø25 mm ISO end caps and 10 Ø20 mm ISO end caps |
| | | **Plain faceplates** |
| 2 | 0019 64 | For 12 modules enclosures |
| 2 | 0019 65 | For 18 modules enclosures |
| | | **Perforated plates** |
| | | Allow the DIN rail to be replaced with a Lina 25 plate when integrating non-modular products |
| 1 | 0019 62 | For 12 modules enclosures Height 150 mm |
| 1 | 4018 53 | For 18 modules enclosures Height 150 mm |
| | | **ISO M20 cable gland** |
| 25 | 0980 03 | Cable gland IP68 |

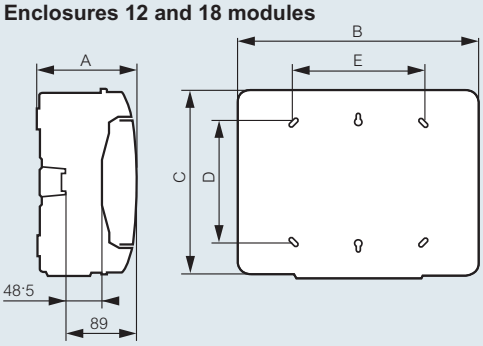
## Dimensions

### Enclosures 2, 4, 6 and 8 modules




| Cat. Nos. | Dimensions (mm) | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| 6019 32 | 109 | 93 | 174 | 94 | – |
| 6019 74 | 115.6 | 128 | 200 | 120 | – |
| 6019 76 | 115.6 | 164 | 200 | 120 | 70 |
| 6019 78 | 115.6 | 200 | 200 | 120 | 106 |

### Enclosures 12 and 18 modules




| Cat. Nos. | Dimensions (mm) | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| 6019 81 | 141 | 340 | 282 | 180 | 180 |
| 6019 82 | 161 | 340 | 432 | 330 | 180 |
| 6019 83 | 161 | 340 | 622 | 480 | 180 |
| 6019 85 | 141 | 448 | 282 | 180 | 288 |
| 6019 86 | 161 | 448 | 432 | 330 | 290 |
| 6019 87 | 161 | 448 | 622 | 480 | 290 |
| 6019 88 | 161 | 448 | 822 | 680 | 290 |

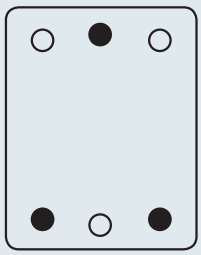
## Fixing centres

### Fixing the enclosure on the wall

Each enclosure is equipped with knockout entries for 2 wall fixing methods :

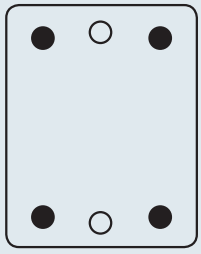
### Hanging fixing

1 point in the middle, 2 points at the bottom



### Adjustable peripheral fixing

4 fixing points



## Number of knockouts on each side

| Cat. Nos. | Top/bottom | | | Left/right | | |
|---|---|---|---|---|---|---|
| | Ø20 mm | Ø25 mm | Ø32 mm | Ø20 mm | Ø25 mm | Ø32 mm |
| 6019 32 | 2 | – | – | – | – | – |
| 6019 74 | 2 | 1 | – | 2 | – | – |
| 6019 76 | 4 | 1 | – | 2 | – | – |
| 6019 78 | 6 | 1 | – | 2 | – | – |
| 6019 81 | 7 | 2 | 2 | – | – | 2 |
| 6019 82 | 13 | 2 | 2 | – | – | 3 |
| 6019 83 | 13 | 2 | 2 | – | – | 4 |
| 6019 85 | 12 | 2 | 3 | – | – | 2 |
| 6019 86 | 13 | 4 | 3 | – | – | 3 |
| 6019 87 | 13 | 4 | 3 | – | – | 4 |
| 6019 88 | 13 | 4 | 3 | – | – | 5 |

## Old/new range cross reference table

| Old Plexo Cat. Nos. | New Plexo³ Cat. Nos. | Number of rows | Total number of modules |
|---|---|---|---|
| **Enclosures 2 to 8 modules** | | | |
| 0017 02 | 6019 32 | 1 | 2 (+1) |
| 0017 04 | 6019 74 | 1 | 4 |
| 0017 06 | 6019 76 | 1 | 6 |
| 0017 08 | 6019 78 | 1 | 8 |
| **Enclosures 12 modules per row** | | | |
| 0017 11 | 6019 81 | 1 | 12 |
| 0017 12 | 6019 82 | 2 | 24 |
| 0017 13 | 6019 83 | 3 | 36 |
| **Enclosures 18 modules per row** | | | |
| – | 6019 85 | 1 | 18 |
| – | 6019 86 | 2 | 36 |
| – | 6019 87 | 3 | 54 |
| – | 6019 88 | 4 | 72 |

## Direct piercing end caps

| Cat. No. | Type | Number of end caps per pack | Ø | |
|---|---|---|---|---|
| | | | Min. (mm) | Max. (mm) |
| 0019 55 | ISO 20 | 10 | 4 | 13 |
| | ISO 25 | 5 | 9 | 18 |
| | ISO 32 | 2 | 12 | 25 |

# terminal shield boxes
with rail

0013 01

0013 04

0013 06

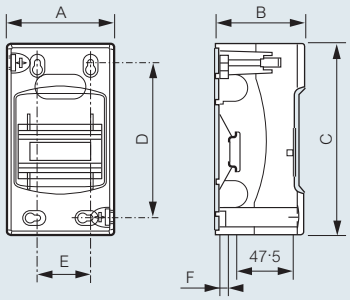
0013 08

| Pack | Cat. Nos. | Terminal shield boxes |
|---|---|---|
| | | **Distribution boxes - 1 to 9 modules**<br>IP 30 - IK 05<br>Conform to IEC 60439-3<br>White RAL 9010<br>Self-extinguishing<br>Supplied with terminal block (box for 6 modules or more)<br>Covers can be sealed and clipped on directly<br>(except for box for 9 modules) |
| | | Capacity in 17·5 mm modules / Dimensions (mm) Height x Width x Depth |
| 10 | 0013 01 | 1 / 140 x 30 x 72 |
| 10 | 0013 02 | 2 / 140 x 50 x 72 |
| 10 | 0013 04 | 4 / 160 x 90 x 74 |
| 5 | 0013 06 | 6 / 160 x 128 x 74 |
| 1 | 0013 08 | (8 + 1) / 180 x 190 x 83 |
| 10 | 0013 98 | Membrane gland for boxes Cat. Nos. 0013 01 to 08 |

terminal shield boxes
with rail

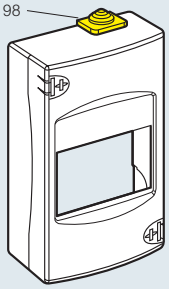
## ■ Dimensions

Cat. Nos. 0013 01/02/04/06/08



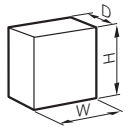

| Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|---|---|---|---|---|---|---|
| **0013 01** | 30 | 72 | 140 | 120 | 10 | 7 |
| **0013 02** | 50 | 72 | 140 | 115 | 25 | 7 |
| **0013 04** | 90 | 74 | 160 | 130 | 45 | 7 |
| **0013 06** | 128 | 74 | 160 | 125 | 80 | 7 |
| **0013 08** | 190 | 83 | 180 | 130 | 120 | 14·5 |

Cat. No. 0013 98



Entry via tube or cable

# Plexo weatherproof boxes
selection chart

| DIMENSIONS | CABLE ENTRY | INDUSTRIAL BOXES | | | | | ACCESSORIES | |
|---|---|---|---|---|---|---|---|---|
|   Internal dimensions (mm) Height x Width x Depth | Cable entry type | With IP 55 plain clip-on covers | With IP 55 covers Plain | Transparent | With IP 55 plain hinged covers - 2 x 1/4 turn fixings | With IP 66 plain covers | Mounting plates | Hinge kit accessories |
| **Ø 60 x 40** | membrane | 0921 00 | – | – | – | – | – | – |
| **Ø 70 x 45** | membrane | 0921 01 | – | – | – | – | – | – |
| **65 x 65 x 40** | membrane | 0921 04 | – | – | – | – | – | – |
| **80 x 80 x 45** | none | 0921 28 | – | – | – | – | – | – |
| **80 x 80 x 45** | membrane | 0921 26 | – | – | – | – | – | – |
| **80 x 80 x 45** | knockout | 0921 27 | – | – | – | – | – | – |
| **105 x 105 x 55** | membrane | – | 0921 36 | – | – | – | – | – |
| **105 x 105 x 55** | none | – | 0921 38 | – | – | – | – | – |
| **105 x 105 x 55** | knockout | – | 0921 37 | – | – | – | – | – |
| **130 x 75 x 74** | none | – | 0359 00 | – | – | 0350 07 | – | – |
| **130 x 130 x 74** | membrane | – | 0920 32 | – | – | – | 0358 10 | – |
| **130 x 130 x 74** | none | – | 0359 30 | – | – | 0350 13 | 0358 10 | 0358 00 |
| **155 x 110 x 74** | membrane | – | 0920 42 | – | – | – | 0358 11 | – |
| **155 x 110 x 74** | none | – | 0359 40 | – | – | 0350 17 | 0358 11 | 0358 00 |
| **180 x 140 x 86** | none | – | 0359 50 | 0359 51 | – | 0350 22 | 0358 12 | 0358 00 |
| **220 x 170 x 86** | none | – | 0359 60 | 0359 61 | – | 0350 28 | 0358 13 | 0358 00 |
| **220 x 170 x 140** | none | – | – | – | 0921 22 | – | 0350 90 | – |
| **265 x 174 x 154** | none | – | – | – | 0350 43 | – | 0350 92 | – |
| **270 x 170 x 86** | none | – | 0359 70 | 0359 71 | – | 0350 33 | 0358 14 | 0358 00 |
| **310 x 240 x 124** | none | – | 0359 80 | – | – | 0350 44 | 0358 15 | 0358 01 |
| **310 x 240 x 160** | none | – | – | – | 0922 84 | – | 0350 93 | – |
| **359 x 265 x 154** | none | – | – | – | 0350 58 | – | 0350 94 | – |
| **360 x 270 x 124** | none | – | 0359 90 | – | – | 0350 47 | 0358 16 | 0358 01 |

# Plexo weatherproof boxes
IP 55 - IK 07

0921 01

0921 26

0921 36

*Dimensions (opposite)*

IP 55 - IK 07
Grey RAL 7035
Conform to EN 60695-2-1
Polystyrene box and polypropylene cover - halogen free
Temperature rating : –25 °C to +40 °C
Self-extinguishing 650 °C
Membrane glands
Plain cover

| Pack | Cat. Nos. | Weatherproof boxes – round |
|---|---|---|
| | | With fixing slots for easy alignment<br>Use 5 mm Ø screws<br>Clip-on cover<br>Nominal internal dimensions :<br>Ø x Depth |
| | | **Ø 60 mm x 40 mm** |
| 5 | 0921 00 | 4 glands |
| | | **Ø 70 mm x 45 mm** |
| 5 | 0921 01 | 4 glands |

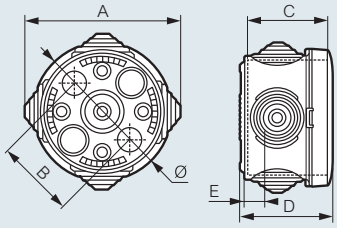
| | | Weatherproof boxes – square |
|---|---|---|
| | | With fixing slots for easy alignment<br>Use 5 mm Ø screws<br>Clip-on cover<br>Nominal internal dimensions :<br>Height x Width x Depth |
| | | **65 x 65 x 40 mm** |
| 5 | 0921 04 | 7 glands |
| | | **80 x 80 x 45 mm** |
| 5 | 0921 26 | 7 glands |
| | | **80 x 80 x 45 mm** |
| 5 | 0921 27 | With pre-cut knockouts |

| | | Weatherproof boxes – square class II |
|---|---|---|
| | | Mounting by :<br>• either internal fixing points - use 5 mm Ø screws<br>• or at three corners outside the wiring area<br>Use 4 mm Ø screws<br>Provision for anti-tamper seal<br>Cover with 4 x 1/4 turn fixings, indicated I-O, can be retained open during installation<br>Nominal internal dimensions :<br>Height x Width x Depth |
| | | **105 x 105 x 55 mm** |
| 5 | 0921 36 | 7 glands |
| | | **105 x 105 x 55 mm** |
| 5 | 0921 37 | With pre-cut knockouts |

Plexo weatherproof boxes
IP 55 - IK 07

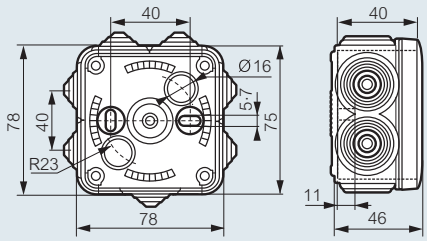
## Dimensions (mm)

**Cat. Nos. 0921 00 and 0921 01**

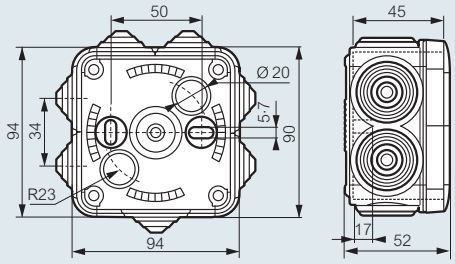



| Cat. Nos. | Ø (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|---|---|---|---|---|---|---|
| **0921 00** | 60 | 79 | 40 | 44·5 | 40 | 11 |
| **0921 01** | 70 | 86 | 50 | 49·5 | 45 | 11 |

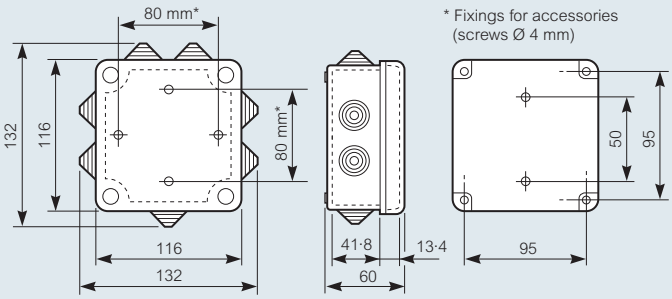
**Cat. No. 0921 04**




**Cat. No. 0921 26**




**Cat. No. 0921 36**



# Plexo weatherproof boxes
## IP 55 - IK 07

0921 28

0359 40

*Technical information and dimensions (p. 39)*

IP 55 - IK 07
Grey RAL 7035
Conform to EN 60695-2-1
Temperature rating : – 25 °C to + 40 °C
Undrilled with smooth sides

| Pack | Cat. Nos. | Weatherproof boxes – class II |
|---|---|---|
| | | Self-extinguishing 650 °C<br>Polystyrene box and polypropylene cover - halogen free<br>With fixing slots for easy alignment<br>- use 5 mm Ø screws<br>Clip-on plain cover<br>Nominal internal dimensions :<br>Height x Width x Depth (mm) |
| 5 | 0921 28 | 80 x 80 x 45 |
| | | Mounting by :<br>• either internal fixing points<br>- use 5 mm Ø screws<br>• or at three corners outside the wiring area<br>- use 4 mm Ø screws<br>Provision for anti-tamper seal<br>Cover with 4 x 1/4 turn fixings, indicated I-O, can be retained open during installation<br>Nominal internal dimensions :<br>Height x Width x Depth (mm) |
| 5 | 0921 38 | 105 x 105 x 55 |

| | Cat. Nos. Cover Plain | Cat. Nos. Cover Transparent | Weatherproof boxes – class II |
|---|---|---|---|
| | | | Self-extinguishing 750 °C<br>Polypropylene box<br>Plain cover : polypropylene(3)<br>Transparent cover : polycarbonate<br>Halogen free<br>Class II protection ensured by the mounting screw protection plugs<br>Detachable clip-on cover retainer (except 310 x 240 and 360 x 270 boxes)<br>Side mounts for IP 2x terminals provided (except for 130 x 75 x 74 mm boxes)<br>1/4 turn fixings to seal cover<br>With fixing slots for easy alignment<br>Option mounting equipment on rail or plain plate<br>Nominal internal dimensions :<br>Height x Width x Depth (mm) |
| 1 | 0359 00 | | 130 x 75 x 74 |
| 1 | 0359 30(1) | | 130 x 130 x 74 |
| 1 | 0920 32 | | 130 x 130 x 74 (10 membrane gland fitted for 4-25 mm cable or conduit) |
| 1 | 0359 40(1) | | 155 x 110 x 74 |
| 1 | 0920 42 | | 155 x 110 x 74 (10 membrane gland fitted for 4-25 mm cable or conduit) |
| 1 | 0359 50(1) | 0359 51(1) | 180 x 140 x 86 |
| 1 | 0359 60(1) | 0359 61(1) | 220 x 170 x 86 |
| 1 | 0359 70(2) | 0359 71(2) | 270 x 170 x 86 |
| 1 | 0359 80(2) | | 310 x 240 x 124 |
| 1 | 0359 90(2) | | 360 x 270 x 124 |

(1) Accepts Cat. No. 0358 00 hinges
(2) Accepts Cat. No. 0358 01 hinges
(3) Except Cat. No. 0359 80 : polycarbonate

# Plexo weatherproof boxes
## IP 66 - IK 08

0350 13

0350 28

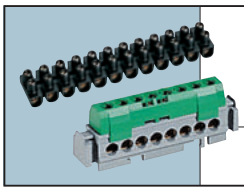
0358 00

0358 02

*Technical information and dimensions (p. 39)*

| Pack | Cat. Nos. | Weatherproof boxes – class II ⧈ 500 V |
|---|---|---|
| | | IP 66 - IK 08<br>Grey TO 29<br>Conform to EN 60695-2-1<br>Temperature rating : – 25 °C to + 80 °C<br>Undrilled with smooth sides<br>Self-extinguishing 750 °C<br>Polycarbonate - halogen free<br>Detachable clip-on cover retainer (except for 310 x 240 and 360 x 270 mm boxes)<br>Side mounts for IP 2X terminals provided (except for 130 x 75 x 74 mm boxes)<br>Sealable plain cover with captive 1/4 turn fixings<br>Nominal internal dimensions :<br>Height x Width x Depth (mm) |
| 1 | 0350 07 | 130 x 75 x 74 |
| 1 | 0350 13(1) | 130 x 130 x 74 |
| 1 | 0350 17(1) | 155 x 110 x 74 |
| 1 | 0350 22(1) | 180 x 140 x 86 |
| 1 | 0350 28(1) | 220 x 170 x 86 |
| 1 | 0350 33(2) | 270 x 170 x 86 |
| 1 | 0350 44(2) | 310 x 240 x 124 |
| 1 | 0350 47(2) | 360 x 270 x 124 |

| Pack | Cat. Nos. | Accessories |
|---|---|---|
| | | **Metal mounting plates**<br>Galvanised steel - 1·5 mm thick<br>For box size : |
| 5 | 0358 10 | 130 x 130 mm |
| 5 | 0358 11 | 155 x 110 mm |
| 5 | 0358 12 | 180 x 140 mm |
| 5 | 0358 13 | 220 x 170 mm |
| 5 | 0358 14 | 270 x 170 mm |
| 5 | 0358 15 | 310 x 240 mm |
| 5 | 0358 16 | 360 x 270 mm |
| | | **Set of 2 hinges(1)**<br>UV protected polyamide in dark grey (RAL 7016) |
| 1 | 0358 00 | For box 130 x 130 mm to 270 x 170 mm |
| 1 | 0358 01 | For box 310 x 240 mm to 360 x 270 mm |
| 1 | 0358 02 | **Set of 4 wall mounting brackets**<br>For boxes from width 110 mm<br>For wall fixing, supplied with screws |



**For Nylbloc terminal strips and distribution blocks**

**see p. 41 and 42-45**

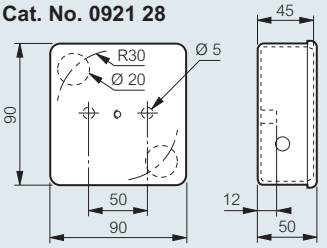
(1) Not suitable for PVC range

# Plexo weatherproof boxes

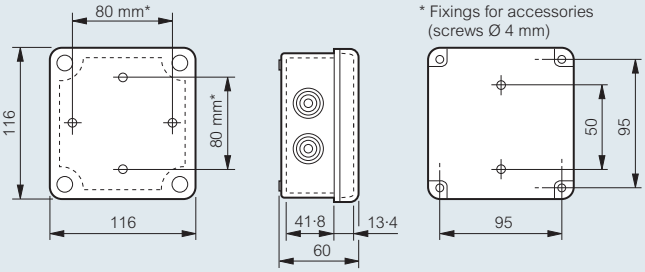
**IP 55 - IK 07 and IP 66 - IK 08**

## ■ Dimensions (mm)

### Cat. No. 0921 28

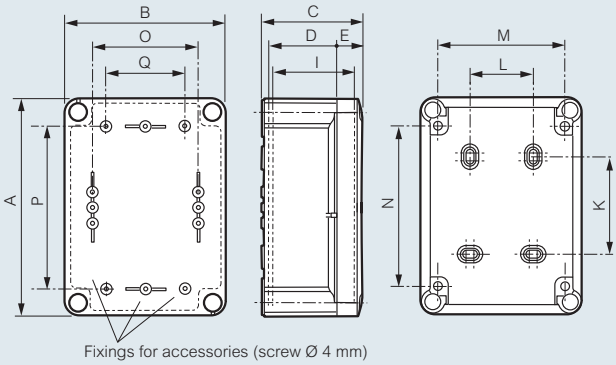



### Cat. No. 0921 38




* Fixings for accessories (screws Ø 4 mm)

### Boxes IP 55 – IK 07 and IP 66 – IK 08

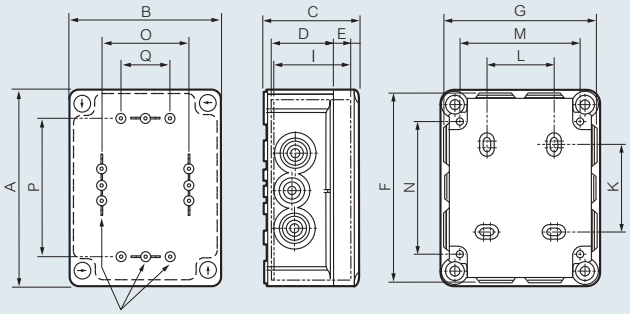



Fixings for accessories (screw Ø 4 mm)

| Boxes | Dimensions (mm) | | | | | | Fixing points (mm) | | | | Fixing accessories (screw Ø 4 mm) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cat. Nos. | A | B | C | D | E | I | K | L | M | N | O | P | Q |
| 0359 00<br>0350 07(1) | 140 | 85 | 81 | 56 | 18 | 67 | 70 | - | 65 | 120 | 51 | 106 | – |
| 0359 30<br>0350 13 | 150 | 150 | 81 | 56 | 18 | 67 | 54 | 70 | 120 | 103 | 106 | 106 | 84 |
| 0359 40<br>0350 17 | 175 | 130 | 81 | 56 | 18 | 67 | 79 | 50 | 100 | 128 | 86 | 131 | 64 |
| 0359 50/51<br>0350 22 | 200 | 160 | 94 | 69 | 18 | 80 | 104 | 50 | 130 | 153 | 116 | 156 | 94 |
| 0359 60/61<br>0350 28 | 240 | 190 | 94 | 69 | 18 | 80 | 144 | 80 | 160 | 193 | 146 | 196 | 124 |
| 0359 70/71<br>0350 33 | 290 | 190 | 94 | 69 | 18 | 80 | 194 | 80 | 160 | 243 | 146 | 246 | 122 |
| 0359 80<br>0350 44 | 332 | 262 | 132 | 97 | 27 | 116 | 220 | 160 | 222 | 276 | 200 | 260 | 150 |
| 0359 90<br>0350 47 | 382 | 292 | 132 | 97 | 27 | 116 | 270 | 190 | 252 | 326 | 230 | 310 | 150 |

(1) Not suitable for direct mounting of IP 2x terminals, use with DIN rail or 12 x 2 mm metal rail (Cat. No. 0048 19 p. 42)

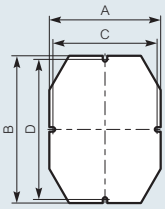
### Cat. Nos. 0920 32 and 0920 42




Fixings for accessories (screw Ø 4 mm)

| Boxes | Dimensions (mm) | | | | | | | | Fixing points (mm) | | | | Fixing accessories (screw Ø 4 mm) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cat. Nos. | A | B | C | D | E | I | F | G | K | L | M | N | O | P | Q |
| 0920 32 | 150 | 150 | 81 | 56 | 18 | 67 | 149 | 149 | 54 | 70 | 120 | 103 | 106 | 106 | 84 |
| 0920 42 | 175 | 130 | 81 | 56 | 18 | 67 | 173 | 128 | 79 | 50 | 100 | 128 | 86 | 131 | 64 |

## ■ Metal mounting plates




| Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) |
|---|---|---|---|---|
| 0358 10 | 114 | 114 | 106 | 106 |
| 0358 11 | 94 | 139 | 86 | 131 |
| 0358 12 | 124 | 164 | 116 | 156 |
| 0358 13 | 154 | 204 | 146 | 196 |
| 0358 14 | 154 | 254 | 146 | 246 |
| 0358 15 | 211 | 271 | 200 | 260 |
| 0358 16 | 241 | 321 | 230 | 310 |

## ■ IP 2x terminal acceptance(2) chart (see p. 43)

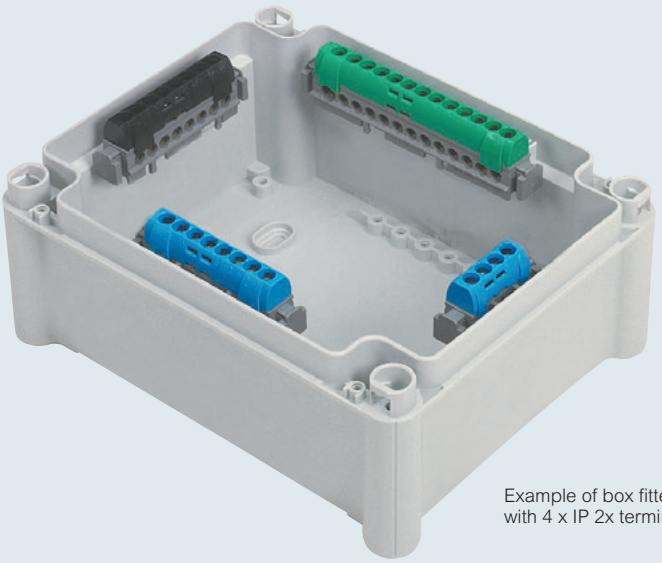
Not suitable for direct mounting on to PVC range nor 130 x 75 x 74 mm boxes

| Boxes | 4 way | 8 way | 13 way | 17 way | 22 way | 28 way |
|---|---|---|---|---|---|---|
| 130 x 130 x 74 | x | x | – | – | – | – |
| 155 x 110 x 74 | x | x | x | – | – | – |
| 180 x 140 x 86 | x | x | x | – | – | – |
| 220 x 170 x 86 | x | x | x | x | x | – |
| 310 x 240 x 124 | x | x | x | x | x | x |
| 360 x 270 x 124 | x | x | x | x | x | x |

(2) Also accepts partly shrouded terminals

## ■ Thickness of walls

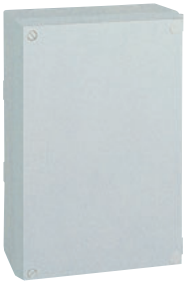
Upto 270 x 170 box = 2 mm
Above this size = 3 mm



Example of box fitted with 4 x IP 2x terminals

# Plexo weatherproof boxes
## increased depth PVC range

0921 22


0350 43

*Dimensions (opposite and p. 41)*

Grey RAL 7035
Operating temperature : – 20 °C to +50 °C
PVC box and cover
Self-extinguishing : 750 °C for Cat. Nos. 0350 43 and 0922 84
960 °C for Cat. Nos. 0350 58 and 0921 22
Deep weatherproof plastic industrial equipment boxes with smooth sides
Fixing options :
- inside : 4 oblong holes at back of box
- outside : cabling volume at 4 corners with Ø 4 screws
- with wall mounting brackets (Cat. No. 0364 08) for 310 x 240 boxes
Option of mounting equipment on rail or on plain plate at back of box
1/4 turn opening/closing

| Pack | Cat. Nos. | Weatherproof boxes – IP 55 |
|---|---|---|
| | | Nominal internal dimensions : Height x Width x Depth (mm) |
| | | **Depth 140 mm** |
| | | IK 07 - IP 55 |
| 2 | 0921 22 | 220 x 170 x 140 - (1/4 turn cover fixings) |
| | | **Depth 154 mm** |
| | | IK 08 - IP 55 |
| 2 | 0350 43 | 265 x 174 x 154 - (1/4 turn cover fixings with hinges) |
| 1 | 0350 58 | 359 x 265 x 154 - (1/4 turn cover fixings with hinges) |
| | | **Depth 160 mm** |
| | | IK 08 - IP 55 |
| 1 | 0922 84 | 310 x 240 x 160 - (1/4 turn cover fixings with hinges) |

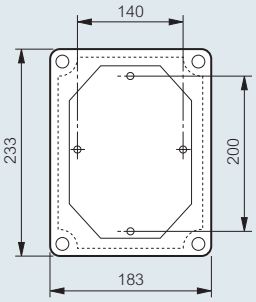
| | | Accessories |
|---|---|---|
| | | **Metal mounting plates** |
| | | Galvanised steel - 1·5 mm thick |
| | | For PVC box size : |
| 5 | 0350 90 | 220 x 170 mm |
| 5 | 0350 92 | 265 x 174 mm |
| 5 | 0350 93 | 310 x 240 mm |
| 5 | 0350 94 | 359 x 265 mm |
| | | **Set of 4 wall mounting brackets** |
| 1 | 0364 08 | For PVC box size 310 x 240 mm only |

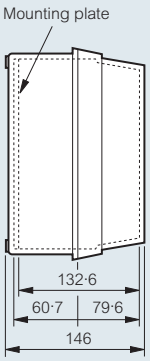
**PVC boxes are not provided with side mounts for IP 2x terminals**

Plexo weatherproof boxes
increased depth PVC range

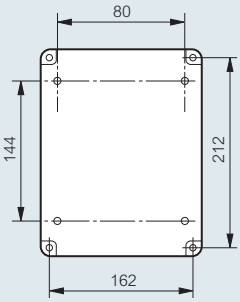
## ■ Dimensions (mm)

**Cat. No. 0921 22**

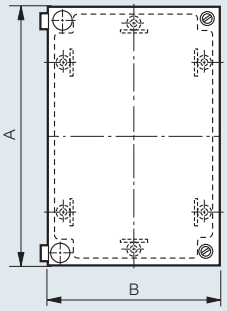


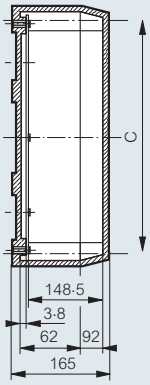




Fixing dimensions

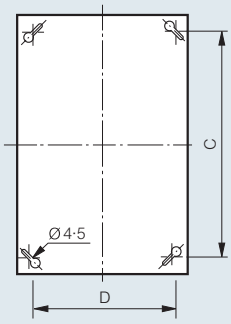



**Cat. Nos. 0350 43/58**




Fixing dimensions

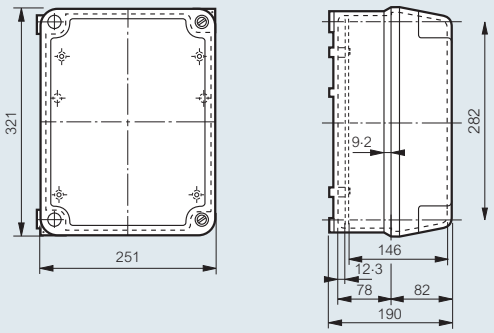



| Cat. Nos. | Dimensions | | Fixing points | | Weight (kg) |
|---|---|---|---|---|---|
| | A (mm) | B (mm) | C (mm) | D (mm) | |
| **0350 43** | 273 | 182 | 246 | 155 | 1·08 |
| **0350 58** | 367 | 273 | 340 | 246 | 1·80 |

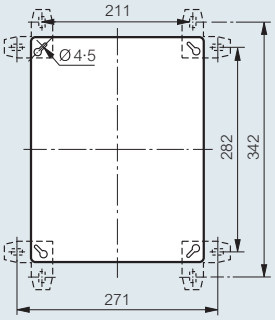
# Plexo weatherproof boxes
increased depth PVC range (continued)

## ■ Dimensions (mm)

**Cat. No. 0922 84**

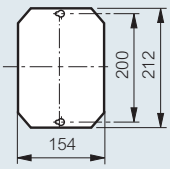



Fixing dimensions

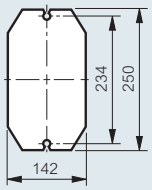



## ■ Mounting plates for PVC boxes

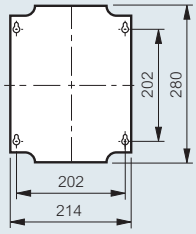
0350 90



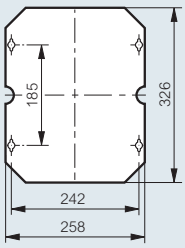

0350 92




0350 93




0350 94

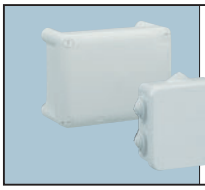



# terminal strips
Nylbloc

## Nylbloc terminal strips

12 way strips with captive screws
Supplied with screws undone
Flame retardent polypropylene (–25 °C to +100 °C)
Insulation voltage : 250 V according to EN 60998-2-1
Use at 400 V integrated in a series of products that comply with the requirements of EN 60664-1, pollution degree 2, overload category III
Ambient temperature from –25 °C to +55 °C

| Pack | Cat. Nos. | Capacity (mm²) | Nom. rating (A) | Diameter Ø | Current max. (A) | Dimensions (mm) |
|---|---|---|---|---|---|---|
| | Black | | | | | |
| 10 | 0342 11 | 4 | 2·5 | 2·5 | 24 | 15·6 x 94 x 12·3 |
| 10 | 0342 13 | 6 | 6 | 3·5 | 41 | 18 x 107 x 14·4 |
| 10 | 0342 15 | 10 | 10 | 4·5 | 57 | 20·8 x 135·1 x 17·4 |
| 10 | 0342 17 | 16 | 16 | 5·5 | 76 | 24·2 x 156·8 x 22·5 |
| 10 | 0342 19 | 25 | 25 | 7 | 101 | 33 x 214 x 27·5 |
| | White | | | | | |
| 10 | 0342 21 | 4 | 2·5 | 2·5 | 24 | 15·6 x 94 x 12·3 |
| 10 | 0342 23 | 6 | 6 | 3·5 | 41 | 18 x 107 x 14·4 |
| 10 | 0342 25 | 10 | 10 | 4·5 | 57 | 20·8 x 135 x 17·4 |
| 10 | 0342 27 | 16 | 16 | 5·5 | 76 | 24·2 x 156·8 x 22·5 |



**For Plexo weatherproof boxes**

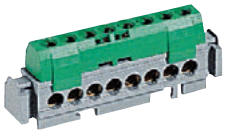
**see p. 36-40**

# distribution terminal blocks

distribution terminal blocks

0048 03

0048 22


0048 32

Conform to standard IEC 60998-2-1
Supplied ready for use (screws captive and backed-off)
100 A max. - 400 V∿ with 25 mm² incoming
80 A max. - 400 V∿ with 16 mm² incoming
Ipk (kA) 60 : Icw (kA) 3·5

## Unshrouded terminal blocks

Fix using M4 dia. screw

| Pack | Cat. Nos. | Incoming capacity | Outgoing capacity | Terminal length (mm) |
|---|---|---|---|---|
| 10 | 0048 01 | 1 x 6 to 25 mm² | 4 x 1·5 to 16 mm² | 45 |
| 10 | 0048 03 | 1 x 6 to 25 mm² | 8 x 1·5 to 16 mm² | 73 |
| 10 | 0048 05 | 1 x 6 to 25 mm² | 14 x 1·5 to 16 mm² | 122 |
| 10 | 0048 06 | 1 x 6 to 25 mm² | 19 x 1·5 to 16 mm² | 157 |
| 10 | 0048 07 | 1 x 6 to 25 mm² | 24 x 1·5 to 16 mm² | 192 |

## Partly shrouded terminal blocks on base

For fixing to 12 x 2 mm rail
Supplied with Duplix markers(1)

| Pack | Cat. Nos. | Incoming capacity | Outgoing capacity | Terminal length (mm) |
|---|---|---|---|---|
| 10 | 0048 20(1) | – | 4 x 1·5 to 16 mm² | 47 |
| 10 | 0048 22(1)(2) | – | 8 x 1·5 to 16 mm² | 75 |
| 10 | 0048 24(1)(2) | 1 x 6 to 25 mm² | 12 x 1·5 to 16 mm² | 113 |
| 10 | 0048 25(1) | 1 x 6 to 25 mm² | 16 x 1·5 to 16 mm² | 141 |

## Fully shrouded terminal blocks providing finger protection IP 2x

For fixing to 12 x 2 mm rail

| Pack | Phase (black) | Neutral (blue) | Incoming capacity | Outgoing capacity | Terminal length (mm) |
|---|---|---|---|---|---|
| 10 | 0048 50 | 0048 40 | – | 4 x 1·5 to 16 mm² | 47 |
| 10 | 0048 52(2) | 0048 42(2) | – | 8 x 1·5 to 16 mm² | 75 |
| 10 | 0048 54(2) | 0048 44(2) | 1 x 6 to 25 mm² | 12 x 1·5 to 16 mm² | 113 |
| 10 | 0048 55 | 0048 45 | 1 x 6 to 25 mm² | 16 x 1·5 to 16 mm² | 141 |
| 10 | 0048 56 | 0048 46 | 1 x 6 to 25 mm² | 21 x 1·5 to 16 mm² | 176 |
| 10 | 0048 58 | 0048 48 | 2 x 6 to 25 mm² | 33 x 1·5 to 16 mm² | 276 |
| | Earth (green) | | | | |
| 10 | 0048 30 | | – | 4 x 1·5 to 16 mm² | 47 |
| 10 | 0048 32(2) | | – | 8 x 1·5 to 16 mm² | 75 |
| 10 | 0048 34(2) | | 1 x 6 to 25 mm² | 12 x 1·5 to 16 mm² | 113 |
| 10 | 0048 35 | | 1 x 6 to 25 mm² | 16 x 1·5 to 16 mm² | 141 |
| 10 | 0048 36 | | 1 x 6 to 25 mm² | 21 x 1·5 to 16 mm² | 176 |
| 10 | 0048 38 | | 2 x 6 to 25 mm² | 33 x 1·5 to 16 mm² | 276 |

## Fully shrouded terminal blocks 3 phase + neutral (3 black + 1 blue)

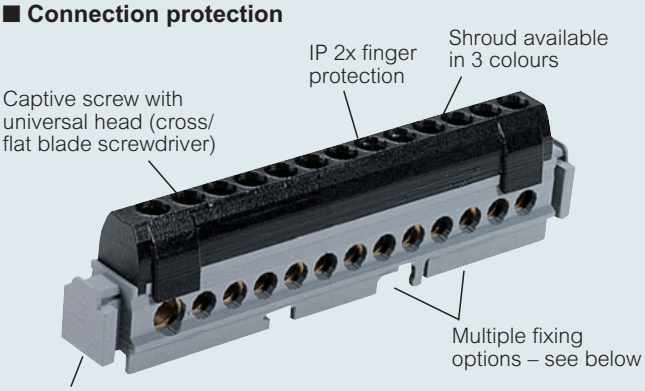
| Pack | Cat. Nos. | Incoming capacity | Outgoing capacity | Terminal length (mm) |
|---|---|---|---|---|
| 1 | 0048 14 | Neutral x 1<br>1 x 4 to 25 mm² | 12 x 1·5 to 16 mm² | 227 |
| | | Phase x 3<br>1 x 1·5 to 16 mm² | 3 x 1·5 to 16 mm² | |

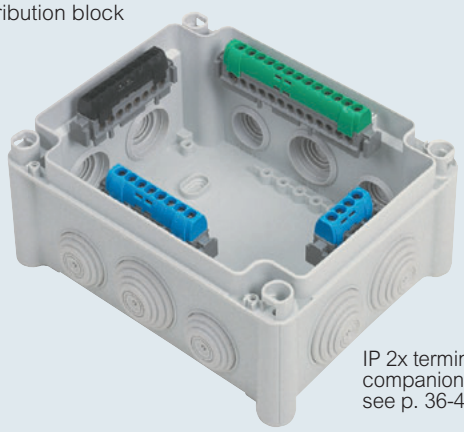
## Supports for terminal blocks

| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0048 10 | **Terminal side support**<br>Consists of two side supports for positioning of up to 4 x IP 2x terminal blocks with the same dimensions to create a 2, 3 or 4 pole distribution block |
| 5 | 0048 11 | **Terminal rail support**<br>Adaptor support for ⊔ or ⊏⊐ rail. Provides a firm fixing allowing IP 2x terminal blocks to be side or top mounted on to adaptor |
| 10 | 0048 19 | **Rail**<br>1 metre length of 12 x 2 mm terminal mounting rail - accepts partly and fully shrouded terminals |

(1) Each terminal supplied with :
- 2 green Duplix markers (⏚) - 2 blue Duplix markers (N) - 2 red Duplix markers (L)
(2) Can be fixed directly to DIN rail without accessory

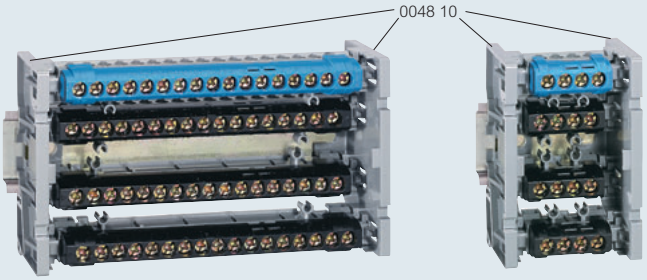
## ■ Connection protection



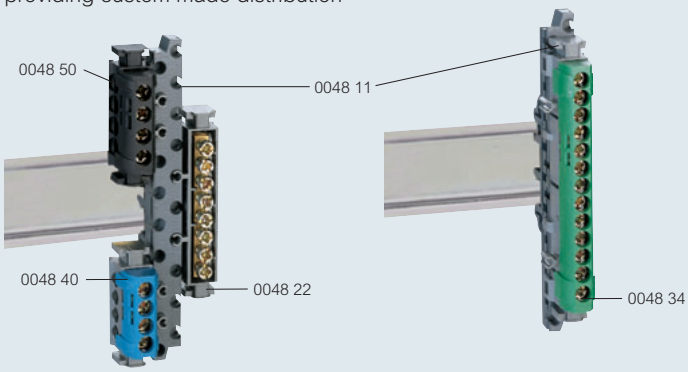



IP 2x terminals are the ideal companion for Plexo boxes, see p. 36-40

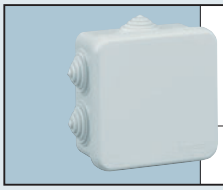
## ■ Use of terminal supports Cat. No. 0048 10




Terminal supports Cat. No. 0048 10 fitted with fully shrouded terminals providing custom made distribution



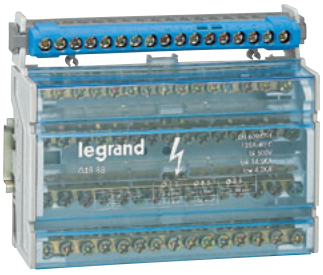

Adaptor support Cat. No. 0048 11 showing method of fixing terminals



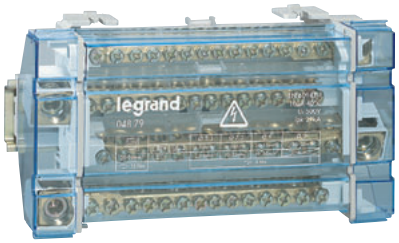
**For Plexo weatherproof boxes**

**see p. 36-40**

# distribution blocks 40 to 160 A
## modular style - rail or screw fixing




0048 88 + 0048 45




0048 79

Conform to standard EN 60947-1
Insulation voltage according to EN 60947-1/IEC 60664-1 : 500 V
Impulse (surge) voltage (Uimp) : 8 kV
Degree of pollution : 3 (conductive dust)
Self-extinguishing 960 °C for supports and active parts
Connection with or without Starfix ferrules

### Modular style blocks

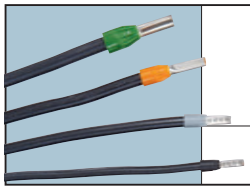
Fixing on rail ⎽⎽ or on plate using 2 screws
Supplied complete with rear insulated plate and transparent cover
Bar identification possible using CAB 3 markers
When installing under a front plate a blank can also be clipped on to the front plate
Additional IP 2x terminals can be fitted (see table opposite)

**Double pole**
Equipped with 2 bars

| Pack | Cat. Nos. | | Ways per bar | Capacity rigid (mm²) | Capacity flexible (mm²) | Ipk peak withstand current (kA) | Icw (kA) | Number of modules |
|---|---|---|---|---|---|---|---|---|
| 5 | 0048 81 | **40 A** | 11<br>2 | 1·5 to 4<br>6 to 16 | 0·75 to 4<br>4 to 10 | 20 | 3 | 6 |
| 10 | 0048 80 | **100 A** | 5<br>2 | 2·5 to 10<br>10 to 25 | 1·5 to 10<br>6 to 16 | 20 | 4·5 | 4 |
| 5 | 0048 82 | **125 A** | 11<br>2<br>2 | 2·5 to 10<br>10 to 25<br>10 to 35 | 1·5 to 10<br>6 to 16<br>10 to 25 | 18 | 4·5 | 8 |

**Four pole**
Equipped with 4 bars

| Pack | Cat. Nos. | | Ways per bar | Capacity rigid (mm²) | Capacity flexible (mm²) | Ipk peak withstand current (kA) | Icw (kA) | Number of modules |
|---|---|---|---|---|---|---|---|---|
| 5 | 0048 85 | **40 A** | 11<br>2 | 1·5 to 4<br>6 to 16 | 0·75 to 4<br>4 to 10 | 20 | 3 | 6 |
| 10 | 0048 84 | **100 A** | 5<br>2 | 2·5 to 10<br>10 to 25 | 1·5 to 10<br>6 to 16 | 20 | 4·5 | 4 |
| 5 | 0048 86 | **125 A** | 7<br>2<br>2 | 2·5 to 10<br>10 to 25<br>10 to 35 | 1·5 to 10<br>6 to 16<br>10 to 25 | 20 | 4·5 | 6 |
| 5 | 0048 88(1) | **125 A** | 11<br>4 | 2·5 to 10<br>10 to 35 | 1·5 to 10<br>6 to 25(1) | 14·5 | 4·2 | 8 |
| 1 | 0048 79(1) | **160 A** | 1<br>8<br>4<br>2 | 35 to 70<br>2·5 to 10<br>10 to 25<br>10 to 35 | 35 to 70<br>1·5 to 10<br>6 to 16<br>10 to 25(1) | 27 | 8·4 | 10 |



**For CAB 3 markers and Starfix ferrules**

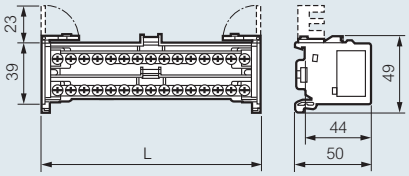
**see p. 154-156 and 160-161**

(1) Supplied with short ferrule


# distribution blocks 40 to 160 A
## modular style - rail or screw fixing

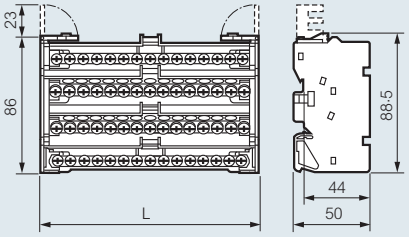

### ■ Dimensions

**Double pole 40 - 100 - 125 A**

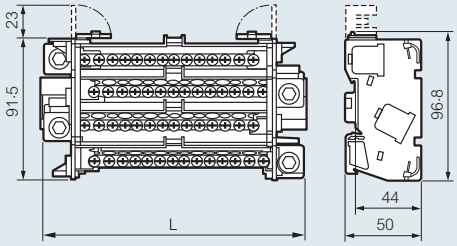


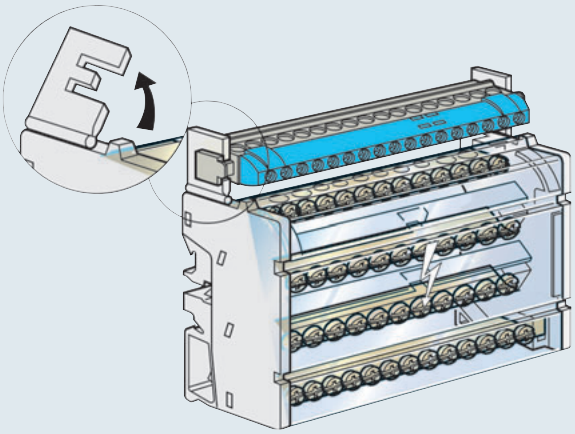

| Cat. Nos. | Length (L) |
|---|---|
| 0048 80 | 70 |
| 0048 81 | 105 |
| 0048 82 | 140 |
| 0048 84 | 70 |
| 0048 85 | 105 |
| 0048 86 | 105 |
| 0048 88 | 140 |
| 0048 79 | 179 |

**Four pole 40 - 100 - 125 A**




**Four pole 160 A**



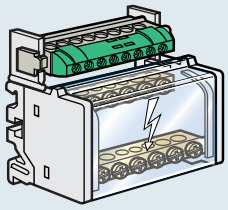



0048 88 + 0048 45

**Extend your wiring capability using IP 2x fully shrouded terminals on the following :**

(see p. 42)

| Distribution block Cat. Nos. | IP 2x Terminal | Characteristics Voltage | Characteristics Rating |
|---|---|---|---|
| **0048 80** | 0048 32(1) | 400 V | 80 A |
| **0048 81** | 0048 34(1) | 400 V | 40 A |
| **0048 82** | 0048 35(1) | 400 V | 100 A |
| **0048 84** | 0048 42(2) | 400 V | 80 A |
| **0048 85** | 0048 44(2) | 400 V | 40 A |
| **0048 86** | 0048 44(2) | 400 V | 100 A |
| **0048 88** | 0048 45(2) | 400 V | 100 A |
| **0048 79** | 0048 45(2) | 400 V | 100 A |

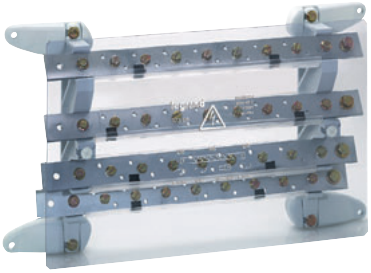


0048 80 + 0048 32

(1) ⏚ (green cover)
(2) Neutral (blue cover)

# distribution blocks 125 to 400 A
four pole

0374 00


0373 08

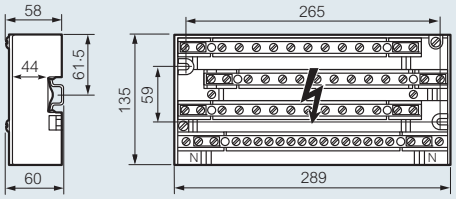
| Pack | Cat. Nos. | Extra-flat distribution blocks for lugs |
|---|---|---|
| 1 | 0374 47 | **125 A screw type** (60 mm depth)<br>Ipk peak withstand current 25 kA<br>Insulation voltage according to EN 60947-1/ IEC 60664-1 : 500 V<br>Self-extinguishing : 960 °C<br>Fix to ⊥ (15 mm high) or by M6 screws<br>Four bars each equipped with :<br>Incoming: 1 x 35 mm²; Phase outgoing: 10 x 16 mm² M5 screw; Neutral outgoing: 17 x 16 mm² M5 screw; No. of 17·5 mm modules: 16<br>Clamp connection possible using connector Cat. No. 0373 65 (p. 45) |
| 1 | 0374 00 | **250 A** (75·5 mm depth)<br>Ipk peak withstand current 60 kA<br>Insulation voltage according to EN 60947-1/ IEC 60664-1 : 1 000 V<br>Self-extinguishing : 960 °C<br>Fix to mounting plate by M6 screws<br>Four bars each equipped with :<br>Incoming: 150 mm²; Outgoing: either 1 x 70 mm² or 1 x 50 mm² plus 1 x 35 mm² or 2 x 35 mm²; or 1 connector Cat. No. 0374 03 |
| 1 | 0374 03 | Connector for Cat. No. 0374 00 converts outgoing terminal to :<br>• 1 x 1·5 to 6 mm² Ø 5·3 mm<br>• 2 x 6 to 16 mm² Ø 7·5 mm<br>Dimensions : 29 x 29 x 16·8 mm |

| Pack | Cat. Nos. | Stepped distribution blocks for lugs |
|---|---|---|
| 1 | 0373 95 | **125 A** (77 mm depth)<br>Fix to ⊥ (15 mm high) or by M4 screws<br>Four 12 x 4 mm bars each equipped with :<br>• Five 2 x 10 mm² claw connectors per bar (not mounted) |
| 1 | 0374 30 | **125 A** (125 mm depth)<br>Fix to mounting plate by M6 screws<br>Four 15 x 4 mm bars each equipped with :<br>Incoming: 1 x 35 mm² - M8 screw; Outgoing: 5 x 25 mm² - M6 screw |
| 1 | 0374 31 | **160 A** (125 mm depth)<br>Fix to mounting plate by M6 screws<br>Four 18 x 4 mm bars each equipped with :<br>Incoming: 1 x 70 mm² - M8 screw; Outgoing: 5 x 35 mm² - M6 screw |
| 1 | 0374 35 | **250 A** (155 mm depth)<br>Fix to mounting plate by M6 screws<br>Four 25 x 4 mm bars each equipped with :<br>Incoming: 1 x 120 mm² - M10 screw; Outgoing: 5 x 50 mm² - M8 screw |
| 1 | 0373 08 | **400 A** (107 mm depth)<br>With front insulation sheet<br>Four 32 x 5 mm bars equipped with :<br>Incoming: 2 x Ø 8·5 mm holes for bar/flexible bar; Outgoing: 21 x M6 holes for 70 mm² max cable lugs |

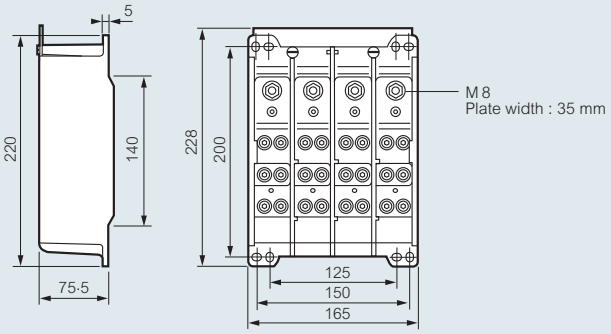
distribution blocks 125 to 400 A
four pole

## ■ Extra-flat distribution blocks for lugs

**125 A** Cat. No. 0374 47

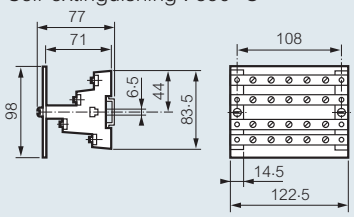



**250 A** Cat. No. 0374 00

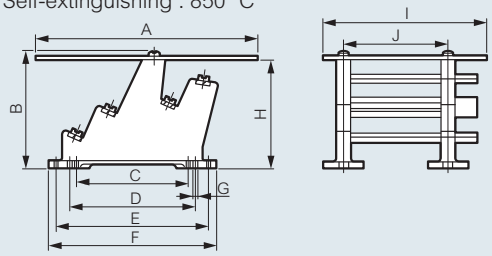



## ■ Stepped distribution blocks for lugs

**125 A** Cat. No. 0373 95 - Ipk peak withstand current 20 kA
Insulation voltage according to EN 60947-1/IEC 60664-1 : 600 V
Self-extinguishing : 850 °C



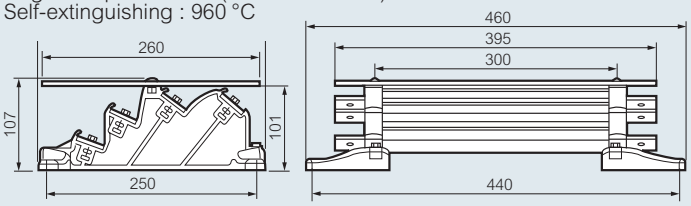

**125/160/250 A** Cat. Nos. 0374 30/31/35 - Ipk peak withstand current 35 kA
Insulation voltage according to EN 60947-1/IEC 60664-1 : 1 000 V
Impulse (surge) voltage (Uimp) : 12 kV
Degree of pollution : 3 (conductive dust)
Self-extinguishing : 850 °C




Dimensions (mm)

| Rating | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 125 A | 225 | 125 | 110 | 125 | 165 | 189 | 6·5 | 117·5 | 165 | 108 |
| 160 A | 240 | 125 | 110 | 125 | 165 | 189 | 6·5 | 117·5 | 180 | 120 |
| 250 A | 260 | 155 | 110 | 125 | 185 | 209 | 6·5 | 147·5 | 195 | 120 |

**400 A**(1) Cat. No. 0373 08 - Ipk peak withstand current 42 kA
Insulation voltage according to EN 60947-1/IEC 60664-1 : 1 000 V
Impulse (surge) voltage (Uimp) : 12 kV
Degree of pollution : 3 (conductive dust)
Self-extinguishing : 960 °C




(1) It is recommended that the unit is fitted horizontally with a minimum face plate height of 300 mm

# distribution blocks
## self assembly

0373 96

0373 98

0374 37

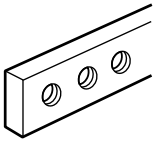
0374 33

| Pack | Cat. Nos. | Insulated supports (maximum 280 A) | Mounting type |
|---|---|---|---|
| | | For assembling distribution blocks of varying lengths using bars and connectors below<br>Supplied with insulated screws for mounting optional protective cover (except 0373 98) | |
| | | **Set of 2 insulated 4 pole supports** | |
| 5 | 0373 96 | For bars 12 x 2 or 12 x 4 mm | DIN rail 0044 16 supplied or M4 screws not supplied |
| | | **Single pole supports** | |
| 10 | 0373 98 | For bars 12 x 2 or 12 x 4 mm | by M4 screws supplied |
| 10 | 0374 37 | For bars 15 x 4, 18 x 4 or 25 x 4 mm | |

### Copper connector bars

**With threaded holes**

| Pack | Cat. Nos. | Size (mm) | Threaded holes Ø mm | Threaded holes Pitch | Max. thermal rating (A) | Length (mm) |
|---|---|---|---|---|---|---|
| 10 | 0373 88 | 12 x 2 | M5 | 18 | 110 | 990 |
| 10 | 0373 89 | 12 x 4 | M5 | 18 | 160 | 990 |
| 10 | 0374 33 | 15 x 4 | M6 | 18 | 200 | 990 |
| 10 | 0374 34 | 18 x 4 | M6 | 18 | 245 | 990 |
| 10 | 0374 38 | 25 x 4 | M6 | 18 | 280 | 990 |
| 4 | 0374 19 | 32 x 5 | M6 | 25 | 450 | 1 750 |

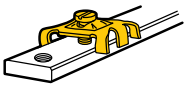


### Connectors

**Clamp type – For bars with threaded holes 12 x 4 (mm)**

For one or two conductors

| Pack | Cat. Nos. | Capacity |
|---|---|---|
| 100 | 0373 65 | 1·5 to 10 mm² (supplied with Ø 5 mm screw) |



**Cage type – For bare 12 x 4 mm bars**

| Pack | Cat. Nos. | Capacity |
|---|---|---|
| 100 | 0373 60 | 1·5 to 4 mm² |
| 10 | 0373 61 | 6 to 16 mm² |
| 10 | 0373 62 | 10 to 35 mm² (supplied with hexagonal 5 mm M6 screw) |

### Clips

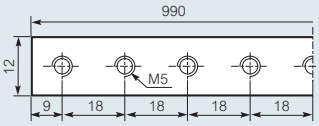
For mounting on rail EN 60715 ⊔ and ⊔ 15 mm depth

| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0044 16 | 10 mm width<br>With threaded Ø 4 mm hole |

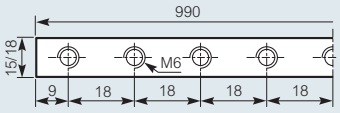
# distribution blocks
## self assembly

### ■ Copper connector bars with threaded holes

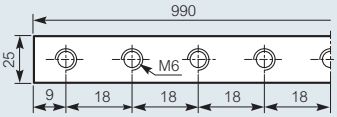
**Cat. Nos. 0373 88/89**



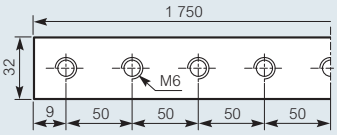

**Cat. No. 0374 33/34**




**Cat. No. 0374 38**




**Cat. No. 0374 19**




| Cat. Nos. | Size | Ithe (A) | Ic (A) |
|---|---|---|---|
| 0373 88 | 12 x 2 | 110 | 80 |
| 0373 89 | 12 x 4 | 160 | 125 |
| 0374 33 | 15 x 4 | 200 | 160 |
| 0374 34 | 18 x 4 | 245 | 200 |
| 0374 38 | 25 x 4 | 280 | 250 |
| 0374 19 | 32 x 5 | 450 | 400 |

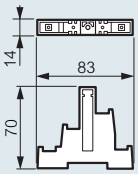
Current ratings according to EN 60947-1 :
- Ith : bars in free air
- Ithe : bars enclosed with ventilation
- Ic : bars totally enclosed in a weatherproof enclosure

### ■ Insulated supports four pole :

Insulation voltage according to EN 60947-1/IEC 60664-1 :
Cat. No. 0373 96 : 690 V - Impulse voltage (surge) (Uimp) : 8 kV
Degree of pollution (conductive dust) : 3
Distance between supports (mm)

| Cat. Nos. | 0373 96 |
|---|---|
| Bar size | 12 x 4 (12 x 2) |
| In (A) | 125 (80) |
| Peak withstand current (kA) | |
| 10 | 400 (200) |
| 15 | 300 (150) |
| 20 | 200 (125) |
| 25 | 150 (100) |
| 30 | – |
| 35 | – |
| 40 | – |

**Cat. No. 0373 96**

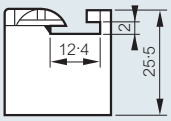



### ■ Insulated supports single pole

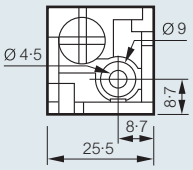
Insulation voltage according to EN 60947-1/IEC 60664-1 : 500 V
Impulse voltage (surge) (Uimp) : 8 kV
Degree of pollution (conductive dust) : 3

**Cat. No. 0373 98**

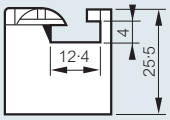
Front view for 12 x 2 mm bar



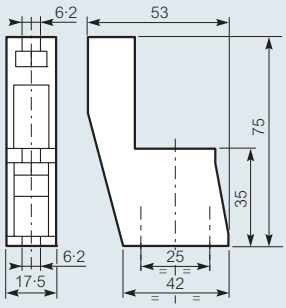

View from above




Front view for 12 x 4 mm bar




**Cat. No. 0374 37**



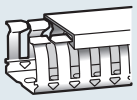

Max. space between 2 supports :
bar size 12 x 2 : 20 cm, 12 x 4 : 25 cm

The distance between supports can be determined using the chart
Select the peak withstand current (kA rating) and the distance between bars - dimension E (mm) after choosing your bar and support
Distance between supports (mm)

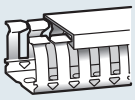
| Cat. Nos. | 0373 98 | | | | 0374 37 | | | |
|---|---|---|---|---|---|---|---|---|
| Bar size | 12 x 2/12 x 4 | | | | 15 x 4/18 x 4/25 x 4 | | | |
| In (A) | 80/125 | | | | 160/200/245 | | | |
| E (mm) | 50 | 75 | 100 | 125 | 50 | 75 | 100 | 125 |
| Peak withstand current (kA) | | | | | | | | |
| 10 | 400 | 600 | 800 | – | 350 | 600 | 750 | – |
| 15 | 300 | 450 | 600 | 800 | 250 | 400 | 500 | 700 |
| 20 | 250 | 350 | 450 | 600 | 150 | 225 | 300 | 375 |
| 25 | 200 | 250 | 300 | 400 | 125 | 150 | 200 | 250 |
| 30 | – | – | – | – | 100 | 125 | 150 | 175 |
| 35 | – | – | – | – | – | 100 | 125 | 150 |
| 40 | – | – | – | – | – | – | – | – |

# Transcab® open slot panel trunking





**P. 50**
Transcab
PVC panel
trunking



**P. 50**
Transcab
PC/ABS
halogen free
panel trunking

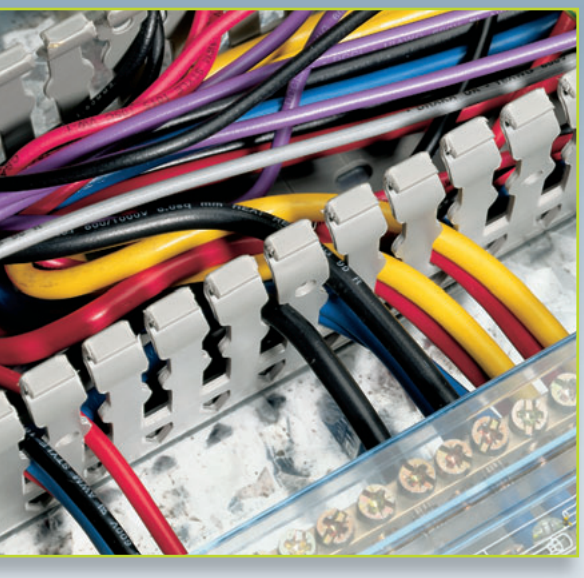
**P. 50**
Transcab
cutting tool

**P. 50**
Cable retainer,
marking and fixing
accessories and
braided sleeving

**P. 51**
Technical
information

# Transcab®...

## uniquely innovative open slot trunking



**With its innovative snap to length design, Transcab is a quick and easy to install open slot panel trunking system that doesn't compromise on quality. And with its global standards approvals, Transcab is ideal for almost any industrial application.**

### Strength and flexibility

Transcab's durable PVC body consists of 6mm gaps and 6.5mm fingers with unique support ribs, providing strength and rigidity. Fingers are easily removed by snapping at support rib or base level to create T-junctions without the need for a saw.

### FEATURES

- **Snap to length design** - for quick and simple installation without the need for a saw
- **Rounded fingers** - easily removed at support rib or base level to create T-junctions
- **Clip-on covers with raised lines** - for quick installation and easy label alignment
- **Available in PVC and PC/ABS halogen-free versions** - to suit a variety of applications
- **Sizes : width x height - from 15 x 25mm to 150 x 100mm**
  **: supplied in 2m lengths**

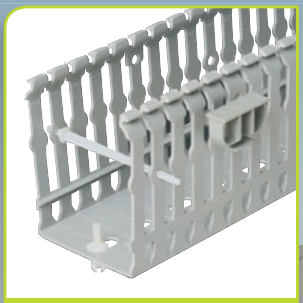
### ACCESSORIES

- **Unique cutting tool for removing support ribs** - Cat No. 0367 10
- **Cable retainer** - for vertical and inverted installations
- **Label holder clips to fingers** - for easy identification of cables

Using the specially designed tool, support bars can be easily and cleanly removed

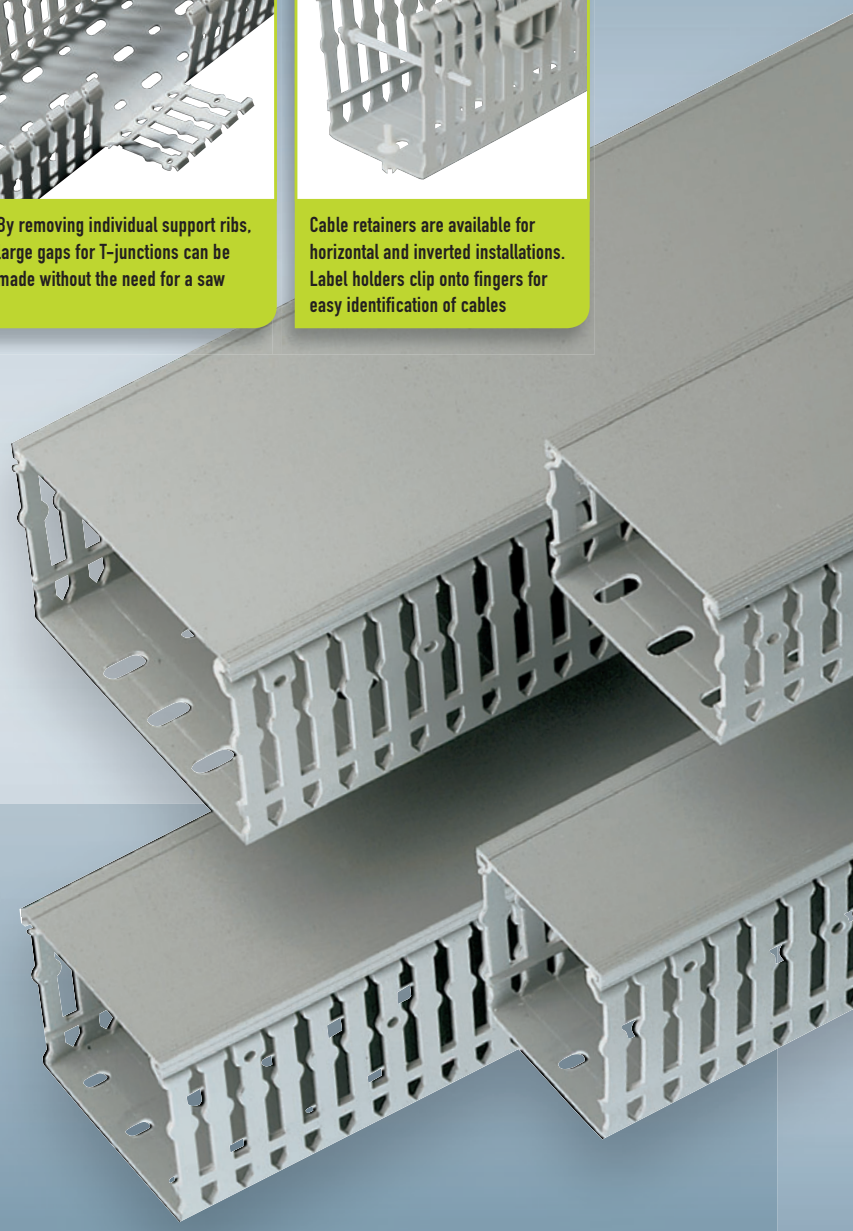
Once the support rib is removed, the base can be snapped to length

By removing individual support ribs, large gaps for T-junctions can be made without the need for a saw



Cable retainers are available for horizontal and inverted installations. Label holders clip onto fingers for easy identification of cables

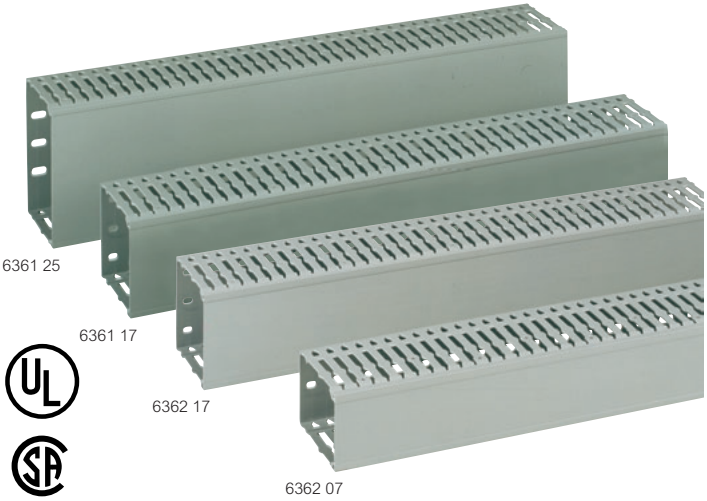
## Transcab... innovative design and high quality materials combine to create a globally approved system that is quick and easy to install



### TECHNICAL DATA

**APPROVALS:** EN 50085 Parts 2 and 3, UL and CSA
**SLOTTING:** Open with 6mm gaps
**FLAMMABILITY:** UL94 V-0 rated
**OPERATING TEMPERATURE:** -5 to + 60°C
**COLOUR:** Grey RAL 7030 (PVC), light grey RAL 7035 (PC/ABS halogen-free)

# Transcab® open slot panel trunking
## PVC and PC/ABS halogen free




*Dimensions and technical information (p. 51)*
*Accessories (opposite)*

Conforms to EN 50085 Parts 2 and 3, UL and CSA
Material : PVC self-extinguishing or PC/ABS halogen free
Colour : grey RAL 7030 (PVC) or light grey RAL 7035 (PC/ABS)
PC/ABS range passes IEC 695-2-1 850 °C glow wire test
Operating temp. : –5 to +60 °C
UL classification : UL94 VO
Oxygen index : 43 % (PVC) or 37 % (PC/ABS) EN ISO 4589 (low fume)
Metric size body in 2 m lengths (6 mm gap/6·5 mm finger width)
DIN fixing centres of 12·5/25 mm
Maximum space for cables with good heat dissipation
Exit cables at terminal or base level

### Plastic panel trunking (base + cover)

2 metre lengths

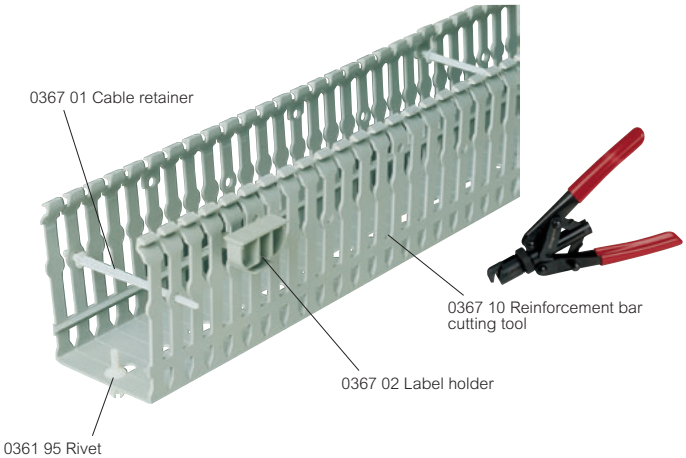
| Pack: Metres per pack | Cat. Nos.: PVC Grey RAL 7030 | Cat. Nos.: PC/ABS Grey RAL 7030 halogen free | Width x Height (mm) | Capacity (mm²) |
|---|---|---|---|---|
| 32 | 6360 95 | | 15 x 25 | 264 |
| 60 | 6361 00 | | 25 x 25 | 391 |
| 56 | 6361 05 | | 40 x 25 | 692 |
| 40 | 6360 96 | | 15 x 40 | 455 |
| 56 | 6361 01 | | 25 x 40 | 720 |
| 48 | 6361 06 | | 40 x 40 | 1 245 |
| 32 | 6361 11 | | 60 x 40 | 1 932 |
| 24 | 6361 15 | | 80 x 40 | 2 647 |
| 24 | 6361 19 | | 100 x 40 | 3 363 |
| 56 | 6361 02 | 6362 02 | 25 x 60 | 1 159 |
| 48 | 6361 07 | 6362 07 | 40 x 60 | 2 007 |
| 32 | 6361 12 | 6362 12 | 60 x 60 | 3 115 |
| 24 | 6361 16 | | 80 x 60 | 4 200 |
| 24 | 6361 20 | | 100 x 60 | 5 307 |
| 40 | 6361 03 | | 25 x 80 | 1 600 |
| 40 | 6361 08 | | 40 x 80 | 2 717 |
| 32 | 6361 13 | 6362 13 | 60 x 80 | 4 216 |
| 24 | 6361 17 | 6362 17 | 80 x 80 | 5 715 |
| 16 | 6361 21 | | 100 x 80 | 7 215 |
| 16 | 6361 25 | 6362 25 | 120 x 80 | 8 729 |
| 24 | 6361 09 | | 40 x 100 | 3 354 |
| 24 | 6361 14 | | 60 x 100 | 5 216 |
| 20 | 6361 18 | | 80 x 100 | 7 078 |
| 16 | 6361 22 | | 100 x 100 | 8 960 |
| 12 | 6361 23 | | 150 x 100 | 13 683 |

### Spare covers

2 metre lengths

| | PVC | PC/ABS | Width (mm) |
|---|---|---|---|
| 36 | 0370 10 | | 15 - also used for marking[1] |
| 36 | 0370 11 | | 25 |
| 36 | 0370 12 | | 40 |
| 36 | 0370 13 | 6362 93 | 60 |
| 36 | 0370 14 | 6362 94 | 80 |

# Transcab® accessories




### Transcab cutting tool

| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0367 10 | Tool for cutting 6 mm reinforcement bar |

### Cable retainer

| Pack | Cat. Nos. | |
|---|---|---|
| 50 | 0367 01 | Cable retainer - clips through trunking fingers |

### Marking accessories

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Label holder** |
| 50 | 0367 02 | Label holder - (clips to finger) for marking |
| | | **Black felt tip pen** |
| 10 | 0395 98 | Indelible for marking |

### Fixing accessories

| Pack | Cat. Nos. | |
|---|---|---|
| | | **To DIN rail** |
| 100 | 6361 90 | Insulated Nylon fixing screws Ø 6 mm for fixing the panel trunking to DIN rail |
| | | **To plain plate** |
| 500 | 6361 95 | Insulated plastic rivets Ø 6 mm for fixing the panel trunking to a plain plate without the need of a screw |
| | | **To enclosure door** |
| 20 | 0366 42 | Material : polyamide 6/6<br>For fixing the panel trunking to an enclosure door<br>Fits under warning lights or other auxiliary controls attached to door<br>Enables direct mounting of trunking by a manual 1/4 turn |

### Braided sleeving

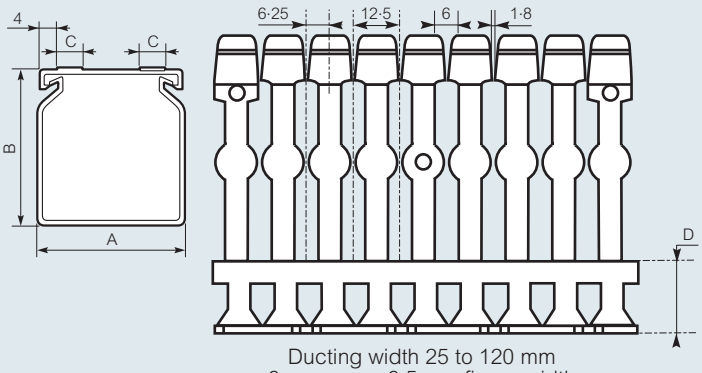
Material : black polyester
25 m roll in dispenser box
Used to protect runs of cables to door equipment

| Pack | Cat. Nos. | | Cable bunch diameter |
|---|---|---|---|
| 1 | 0366 38 | Ø 20 mm | 10 - 30 mm |
| 1 | 0366 39 | Ø 30 mm | 18 - 54 mm |

(1) Clips to label holder Cat. No. 0367 02

# Transcab® open slot panel trunking

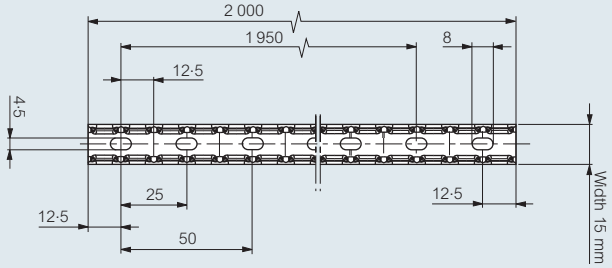
## ■ Dimensions

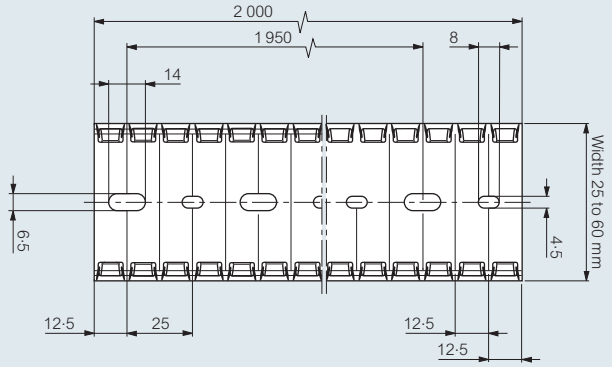


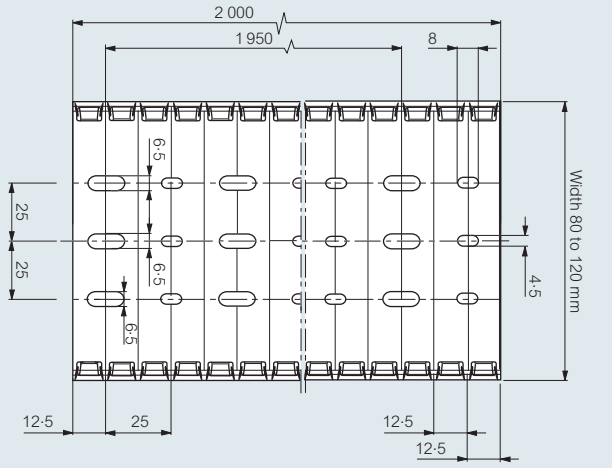

Ducting width 25 to 120 mm
6 mm gap – 6·5 mm finger width

| Transcab Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) |
|---|---|---|---|---|
| **6361 00** | 25 | 25 | 6 | 10·1 |
| **6361 01** | 25 | 40 | 5 | 12·6 |
| **6361 06** | 40 | 40 | 10 | 12·6 |
| **6361 11** | 60 | 60 | – | 16·1 |
| **6361 02** | 25 | 60 | 6 | 16·1 |
| **6361 07** | 40 | 60 | 10 | 16·1 |
| **6361 12** | 60 | 60 | 10 | 16·1 |
| **6361 16** | 80 | 60 | 10 | 16·1 |
| **6361 20** | 100 | 60 | – | 16·1 |
| **6361 03** | 25 | 80 | – | 18·6 |
| **6361 08** | 40 | 80 | 10 | 18·6 |
| **6361 13** | 60 | 80 | 10 | 18·6 |
| **6361 17** | 80 | 80 | 10 | 18·6 |
| **6361 21** | 100 | 80 | – | 18·6 |
| **6361 25** | 120 | 80 | – | 18·6 |
| **6361 14** | 60 | 100 | – | 20·6 |
| **6361 22** | 100 | 100 | – | 20·6 |
| **6361 23** | 150 | 100 | – | 20·6 |

## ■ Detail of base perforations

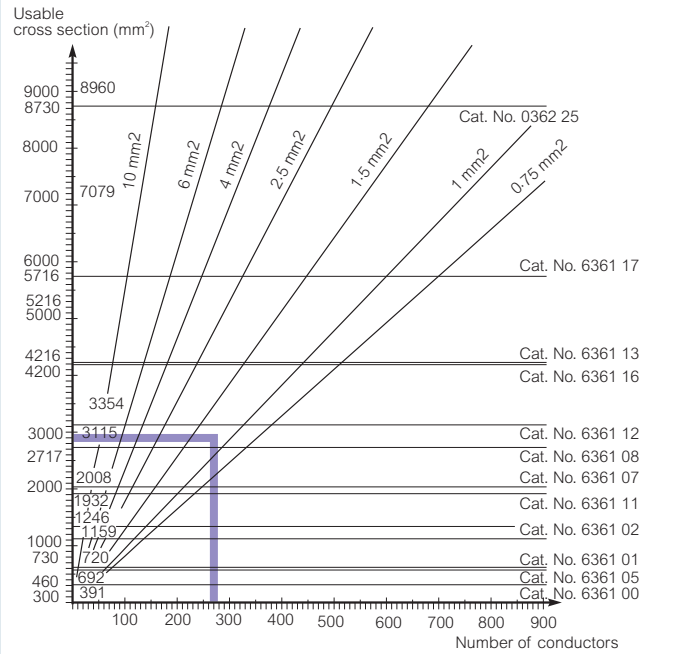



### Calculating the panel trunking usable cross section

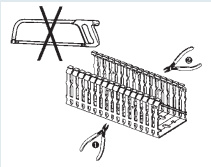
Graph for H 05 V-K and H 07 V-K cables with 0·75 packing coefficient

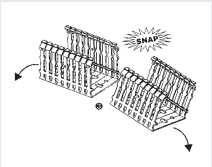



Example :
150 conductors 0·75 mm² ➞ 1 230 mm² cross section and
120 conductors 1·5 mm² ➞ 1 700 mm² cross section
Makes a total of 2 930 mm²

The correct panel trunking is Cat. No. 6361 12, 60 x 60 mm, with a capacity of 3 115 mm²

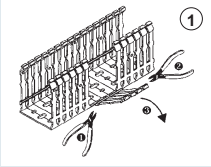
### Faster base build without a saw

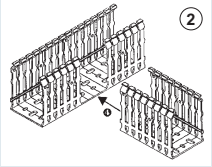


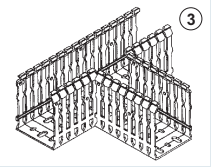



Remove reinforcement bars at required length and break

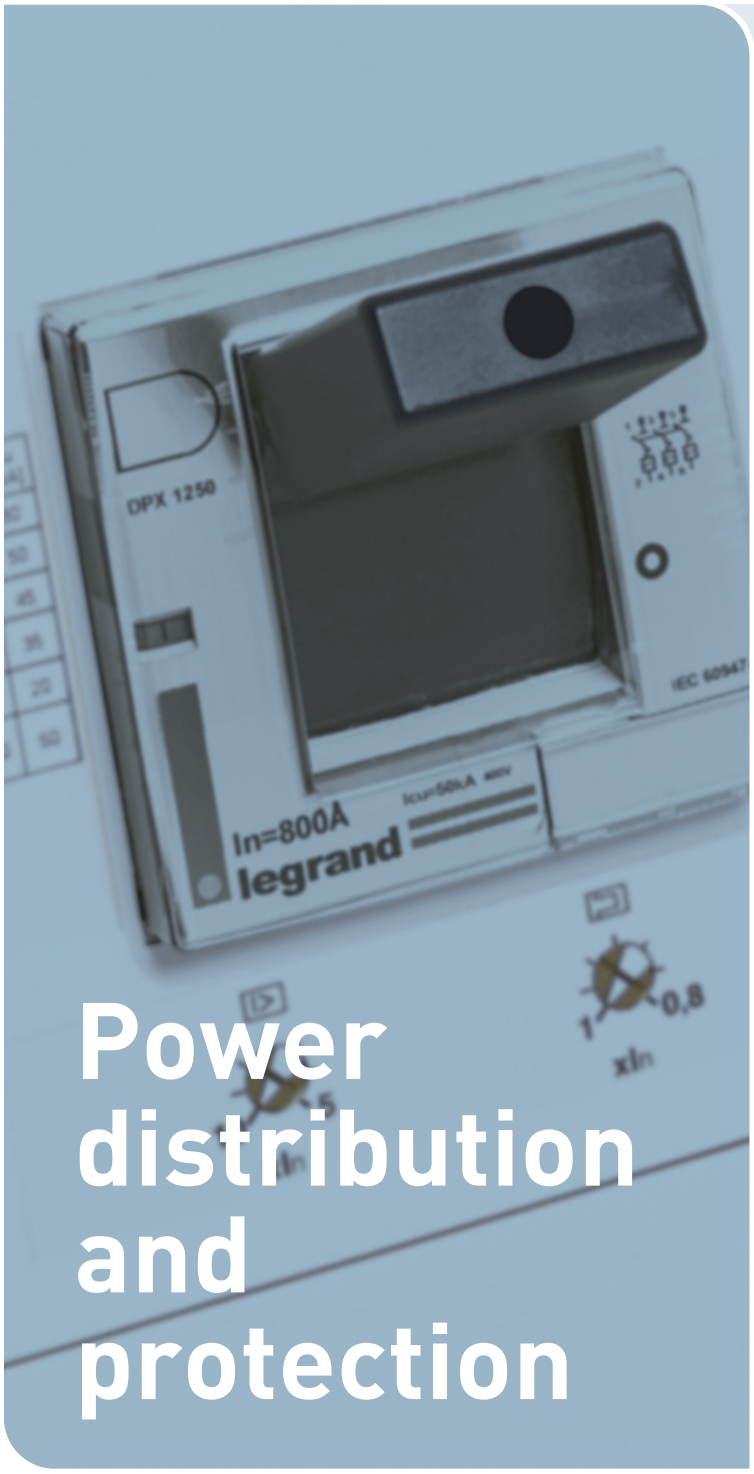
### 'T' junctions made easy



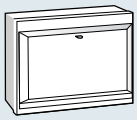

1 Clip out the required section width reinforcement bars and snap out section
2 Form tee section and fix into place
3 Ready for wiring – cut cover to suit




# Power distribution and protection

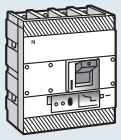

**Distribution boards**

**P. 56**
Type B distribution boards selection chart

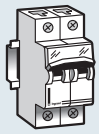

**P. 61**
Type A distribution boards

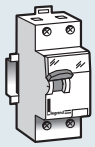
**MCCB protection devices**

**P. 62**
DPX MCCBs selection chart


**P. 68**
DPX 1 250 MCCBs

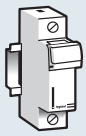
**MCB/RCD/RCBO protection devices**


**P. 79**
DX-H MCBs


**P. 83**
DX RCDs

**P. 85**
Metering

**Fuse carriers and fuses**


**P. 89**
Modular fuse carriers

**P. 93**
Blade type cartridge fuses

**P. 58** Type B standard distribution boards

**P. 58** Type B flexible distribution boards

**P. 59** Type B distribution board accessories

**P. 60** Technical information

**P. 61** Technical information

**P. 64** DPX 125 MCCBs

**P. 65** DPX 250 ER MCCBs

**P. 66** DPX 250 MCCBs

**P. 67** DPX 630 MCCBs

**P. 68** Control and signalling auxiliaries

**P. 69** Technical characteristics and curves

**P. 75** Selectivity table

**P. 77** Technical information

**P. 79** DX-D MCBs

**P. 80** DX MCBs technical information

**P. 81** DX tripping and operating curves

**P. 82** Discrimination / selectivity tables

**P. 83** DX MCB/RCD auxiliaries

**P. 84** DX RCBOs

**P. 88** Technical information

**P. 87** Metering technical information

**P. 88** Modular DIN rail equipment dimensions

**P. 89** SP fuse carriers

**P. 89** Modular fuse carriers technical information

**P. 90** Modular fuse carrier and device accessories

**P. 91** Cylindrical cartridge fuses

**P. 95** Technical information

# Power distribution and protection

Legrand's reputation for providing high quality power and distribution systems is second to none.

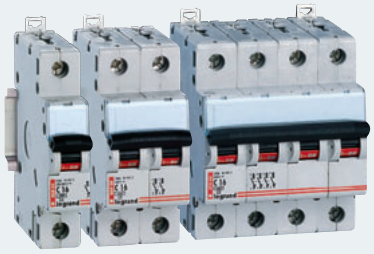
From rugged enclosures to a wide range of protection modules, each component is designed with innovation at the forefront of the process.

## MCCBs

TECH DATA –

| | |
|---|---|
| Breaking capacity: | 16kA, 25kA, 36kA, 50kA, 70kA |
| Pole range: | single to 4 pole |
| Current rating: | 16A to 800A |

## MCBs



TECH DATA –

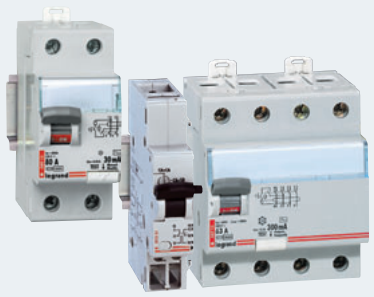
| | |
|---|---|
| Breaking capacity: | 6kA, 10kA |
| Pole range: | single to 4 pole |
| Current rating: | 1A to 125A |
| Tripping characteristics: | Type B, C, D |

## Uniquely innovative... uniquely flexible

Legrand's type B distribution boards are available in standard and flexible versions. Flexible boards can be customised to individual requirements with a range of Legrand's modular devices, including MCCBs, MCBs, time switches and contactors. Modular devices integrate into the main pan assembly without the need for an extension box.

Type A boards with 6 to 18 outgoing ways are also available, (see p. 61).

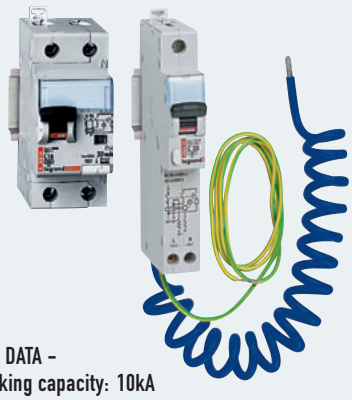
## RCDs



TECH DATA –

| | |
|---|---|
| Pole range: | 2 and 4 pole |
| Current rating: | 16A to 100A |
| Types: | A, AC |
| Sensitivity: | 10mA, 30mA, 100mA, 300mA |

## RCBOs



TECH DATA –

| | |
|---|---|
| Breaking capacity: | 10kA |
| Pole range: | single pole + neutral to 4 pole |
| Current rating: | 3A to 63A |
| Tripping characteristics: | Type B, C |
| Sensitivity: | 10mA, 30mA, 100mA, 300mA |

## FUSES AND FUSE CARRIERS

In addition to DIN rail mounted protection devices, Legrand offers a comprehensive range of cylindrical fuses, blade fuses and modular fuse carriers.

see p. 89 to 95

# Energy metering... putting you in control

Legrand's range of digital and analogue ammeters and voltmeters measure, meter and clearly display energy levels, enabling consumption levels to be controlled.

See p. 85 to 87

**Related products:**

From medium duty EdM cast resin transformers to 25 – 5000 A busbar from the Electrak and Zucchini product portfolio, contact Legrand's power distribution division on + 44 (0) 845 605 4333

# type B distribution boards and devices
selection chart

| TYPE B DISTRIBUTION BOARDS 125 A TP & N – STANDARD | | | | | | |
|---|---|---|---|---|---|---|
| TP & N – STANDARD | Number of ways (triple pole) | | | | | |
| | 4 | 6 | 8 | 12 | 16 | 24 |
| Solid door | 6071 00 | 6071 01 | 6071 02 | 6071 03 | 6071 04 | 6071 05 |
| Glass door | 6071 50 | 6071 51 | 6071 52 | 6071 53 | 6071 54 | 6071 55 |
| TYPE B DISTRIBUTION BOARDS 250 A TP & N – STANDARD | | | | | | |
| TP & N – STANDARD | Number of ways (triple pole) | | | | | |
| | 4 | 6 | 8 | 12 | 16 | 24 |
| Solid door | 6071 10 | 6071 11 | 6071 12 | 6071 13 | 6071 14 | 6071 15 |
| Glass door | 6071 60 | 6071 61 | 6071 62 | 6071 63 | 6071 64 | 6071 65 |

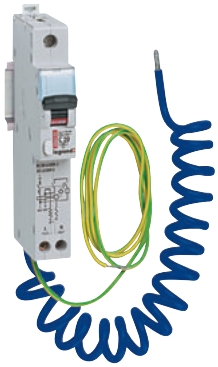
| TYPE B DISTRIBUTION BOARDS 125 A 1 TO 4 POLE – FLEXIBLE | | | | |
|---|---|---|---|---|
| 1 TO 4 POLE – FLEXIBLE | Number of modules | | | |
| | 24 | 36 | 48 | 72 |
| Solid door | 6071 06 | 6071 07 | 6071 08 | 6071 09 |
| Glass door | 6071 56 | 6071 57 | 6071 58 | 6071 59 |
| TYPE B DISTRIBUTION BOARDS 250 A 1 TO 4 POLE – FLEXIBLE | | | | |
| 1 TO 4 POLE – FLEXIBLE | Number of modules | | | |
| | 24 | 36 | 48 | 72 |
| Solid door | 6071 16 | 6071 17 | 6071 18 | 6071 19 |
| Glass door | 6071 66 | 6071 67 | 6071 68 | 6071 69 |

| INCOMING DEVICES AND KITS (125 A BOARDS) | |
|---|---|
| Switch disconnector 100 A 3P | 0043 55 + 6072 00 |
| Switch disconnector 100 A 4P | 0043 75 + 6072 00 |
| Switch disconnector 125 A 3P | 0043 58 + 6072 00 |
| Switch disconnector 125 A 4P | 0043 78 + 6072 00 |
| MCCB 125 A 3P | 0250 21 + 6072 01 |
| MCCB 125 A 4P | 0250 29 + 6072 02 |
| MCCB 125 A 4P + earth leakage(1) | 0250 29 + 0260 14 + 6072 03 |
| INCOMING DEVICES AND KITS (250 A BOARDS) | |
| Trip-free switch 250 A 3P | 0252 98 + 6072 04 |
| Trip-free switch 250 A 4P | 0252 99 + 6072 05 |
| MCCB 250 A 3P | 0252 26 + 6072 04 |
| MCCB 250 A 4P | 0252 36 + 6072 05 |
| MCCB 250 A 4P + earth leakage(1) | 0252 36 + 0260 38 + 6072 06 |

(1) Boards fitted with incoming earth leakage modules require 200 mm additional cabling space provided by fitting cable boxes Cat. No. 6071 72 (see p. 59)
Revised height dimensions available on p. 60

| OUTGOING DEVICES (63 A MAX.) - DX-H / DX-D MCBs 6 kA / 10 kA BS EN 60898-1 12·5/25 kA BS EN 60947-2 | | | | | | |
|---|---|---|---|---|---|---|
| | B curve | | C curve | | D curve | |
| Rating (A) | 1P | 3P | 1P | 3P | 1P | 3P |
| 1 | 0066 91 | 0067 72 | 0068 52 | 0069 32 | 0065 75 | 0066 45 |
| 2 | 0066 92 | 0067 73 | 0068 53 | 0069 33 | 0065 76 | 0066 46 |
| 3 | 0066 93 | 0067 74 | 0068 54 | 0069 34 | 0065 77 | 0066 47 |
| 6 | 0066 95 | 0067 76 | 0068 56 | 0069 36 | 0065 79 | 0066 49 |
| 10 | 0066 97 | 0067 78 | 0068 58 | 0069 38 | 0065 81 | 0066 51 |
| 16 | 0067 00 | 0067 80 | 0068 60 | 0069 40 | 0065 83 | 0066 53 |
| 20 | 0067 01 | 0067 81 | 0068 61 | 0069 41 | 0065 84 | 0066 54 |
| 25 | 0067 02 | 0067 82 | 0068 62 | 0069 42 | 0065 85 | 0066 55 |
| 32 | 0067 03 | 0067 83 | 0068 63 | 0069 43 | 0065 86 | 0066 56 |
| 40 | 0067 04 | 0067 84 | 0068 64 | 0069 44 | 0065 87 | 0066 57 |
| 50 | – | 0067 85 | 0068 65 | 0069 45 | 0065 88 | 0066 58 |
| 63 | 0067 06 | 0067 86 | 0068 66 | 0069 46 | 0065 89 | 0066 59 |

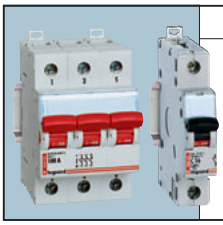
| OUTGOING DEVICES (63 A MAX.) - RCBOs SINGLE MODULE 10 kA BS EN 61009-1 | |
|---|---|
| | C curve |
| Rating (A) | 1P |
| 10 | 6064 10 |
| 16 | 6064 11 |
| 20 | 6064 12 |
| 25 | 6064 13 |
| 32 | 6064 14 |
| 45 | 6064 15 |



**Note :**

All outgoing devices on this page (up to 63 A) fit both the standard TP & N and flexible MCB distribution boards

More devices fit the flexible board than the standard board, including some SP & N RCDs, and 4 pole MCBs (up to 63 A) shown on p. 83 and 79 respectively




| Incoming devices | Page |
|---|---|
| Switch disconnectors 100-125 A | 100 |
| Trip-free switch 250 A | 65/66 |
| MCCBs 125 A | 64 |
| MCCBs 250 A | 65/66 |

| Outgoing devices | Page |
|---|---|
| MCBs 10 kA | 79 |
| RCBOs 10 kA | 84 |

# type B distribution boards
## standard 125 A and 250 A busbar

6071 03 open with plate removed

6071 54

6071 10

Dimensions (p. 60)

Conform to BS EN 60439-3
IP 40
RAL 7035
Maximum rating for outgoing devices : 63 A

| Pack | Cat. Nos. | Type B 125 A TP & N - standard |
|---|---|---|
| | | Busbar rating : 125 A<br>Supplied with 3 pole outgoing connectors |
| | | **Solid door** |
| | | No. of TP ways |
| 1 | 6071 00 | 4 |
| 1 | 6071 01 | 6 |
| 1 | 6071 02 | 8 |
| 1 | 6071 03 | 12 |
| 1 | 6071 04 | 16 |
| 1 | 6071 05 | 24 |
| | | **Glass door** |
| | | No. of TP ways |
| 1 | 6071 50 | 4 |
| 1 | 6071 51 | 6 |
| 1 | 6071 52 | 8 |
| 1 | 6071 53 | 12 |
| 1 | 6071 54 | 16 |
| 1 | 6071 55 | 24 |

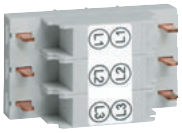
| | | Type B 250 A TP & N - standard |
|---|---|---|
| | | Busbar rating : 250 A<br>Supplied with 3 pole outgoing connectors |
| | | **Solid door** |
| | | No. of TP ways |
| 1 | 6071 10 | 4 |
| 1 | 6071 11 | 6 |
| 1 | 6071 12 | 8 |
| 1 | 6071 13 | 12 |
| 1 | 6071 14 | 16 |
| 1 | 6071 15 | 24 |
| | | **Glass door** |
| | | No. of TP ways |
| 1 | 6071 60 | 4 |
| 1 | 6071 61 | 6 |
| 1 | 6071 62 | 8 |
| 1 | 6071 63 | 12 |
| 1 | 6071 64 | 16 |
| 1 | 6071 65 | 24 |

**Note :**

Various other outgoing devices including a range of timers, contactors, control switches, indicator lights, transformers, buzzers, stairwell timers, etc. can be added to these boards. Many fit inside the board itself, others require the use of an extension box.
See p. 100-127

# type B distribution boards
## flexible 125 A and 250 A busbar

6071 66 open with plate removed



6072 17

Dimensions (p. 60)

Conform to BS EN 60439-3
IP 40
RAL 7035
Maximum rating for outgoing devices : 63 A

| Pack | Cat. Nos. | Type B 125 A 1 to 4 pole - flexible |
|---|---|---|
| | | Busbar rating : 125 A<br>Supplied without connectors, see below |
| | | **Solid door** |
| | | Max. No. of modules |
| 1 | 6071 06 | 24 |
| 1 | 6071 07 | 36 |
| 1 | 6071 08 | 48 |
| 1 | 6071 09 | 72 |
| | | **Glass door** |
| | | Max. No. of modules |
| 1 | 6071 56 | 24 |
| 1 | 6071 57 | 36 |
| 1 | 6071 58 | 48 |
| 1 | 6071 59 | 72 |

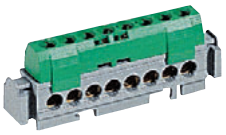
| | | Type B 250 A 1 to 4 pole - flexible |
|---|---|---|
| | | Busbar rating : 250 A<br>Supplied without connectors, see below |
| | | **Solid door** |
| | | Max. No. of modules |
| 1 | 6071 16 | 24 |
| 1 | 6071 17 | 36 |
| 1 | 6071 18 | 48 |
| 1 | 6071 19 | 72 |
| | | **Glass door** |
| | | Max. No. of modules |
| 1 | 6071 66 | 24 |
| 1 | 6071 67 | 36 |
| 1 | 6071 68 | 48 |
| 1 | 6071 69 | 72 |

| | | Connectors for flexible distribution boards |
|---|---|---|
| 8 | 6072 10 | Connector – L1 phase |
| 8 | 6072 11 | Connector – L2 phase |
| 8 | 6072 12 | Connector – L3 phase |
| 8 | 6072 13 | Connector – neutral |
| 4 | 6072 14 | Connector – double pole (L1 + neutral) |
| 4 | 6072 15 | Connector – double pole (L2 + neutral) |
| 4 | 6072 16 | Connector – double pole (L3 + neutral) |
| 8 | 6072 17 | Connector – triple pole |
| 6 | 6072 18 | Connector – four pole |
| 8 | 6071 83 | Connector – blank |

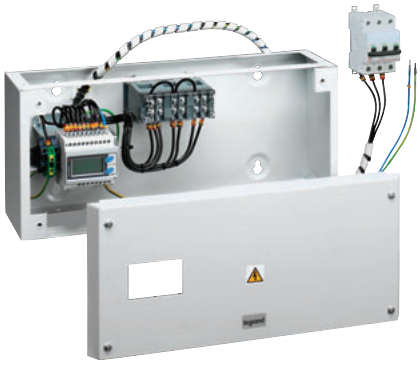
# type B distribution board accessories

6072 01

6071 30


0048 32

6071 70


6071 20

6071 81
(shown with
padlock 0044 43)

6071 75

| Pack | Cat. Nos. | Incomer kits |
|---|---|---|
| 1 | 6072 00 | Kit for incomer 3P/4P MCB / switch disconnector |
| 1 | 6072 01 | Kit for incomer MCCB 125 A 3P |
| 1 | 6072 02 | Kit for incomer MCCB 125 A 4P |
| 1 | 6072 03 | Kit for incomer MCCB 125 A 4P – earth leakage underneath |
| 1 | 6072 04 | Kit for incomer MCCB 250 A 3P + trip free switch |
| 1 | 6072 05 | Kit for incomer MCCB 250 A 4P + trip free switch |
| 1 | 6072 06 | Kit for incomer MCCB 250 A 4P – earth leakage underneath |

| | | Direct connection |
|---|---|---|
| | | For direct incoming cable connection |
| 1 | 6071 30 | Terminal block 125 A |
| 1 | 6071 31 | Terminal block 250 A |

| | | Extension boxes - height 200 mm |
|---|---|---|
| 1 | 6071 70 | Box for ⊔ rail products (max. 15 modules) |
| 1 | 6071 72 | Cable box top/bottom |

| | | Gland plates |
|---|---|---|
| 1 | 6071 75 | Gland plate – plain |
| 1 | 6071 76 | Gland plate – with knockouts |

## Neutral and earth bars

| | | | Outgoing capacity | Terminal length (mm) |
|---|---|---|---|---|
| 1 | 0048 42 | Neutral bar | 8 x 1·5 to 16 mm² | 75 |
| 1 | 0048 32 | Clean earth | 8 x 1·5 to 16 mm² | 75 |

## Locking accessories

| | | |
|---|---|---|
| | | **Handle key lock** |
| 1 | 6071 80 | Cylinder lock |
| | | **Handle for padlock** |
| 1 | 6071 81 | Padlock not supplied<br>See Cat. No. 0044 43 below |
| | | **Locking device** |
| 2 | 0044 42 | Attachment for Ø 5 mm and Ø 6 mm padlocks to fit DX-H and DX-D |
| | | **Padlock** |
| 1/3 | 0044 43 | Ø 5 mm |

0044 42

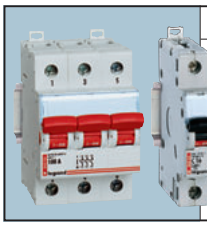
0044 43

| Pack | Cat. Nos. | Insulated covers, labels and spacers |
|---|---|---|
| 1 | 6071 82 | Blank MCB 10 module plate for inner front cover |
| 5 | 0049 83 | Insulated covers for 4 connector pins<br>Not required if Cat. No. 0044 41 module is used |
| | | **Spacing elements** |
| 10 | 0044 40 | 0·5 module |
| 5 | 0044 41 | 1 module |
| | | **Self-adhesive label holder** |
| 10 | 0049 96 | Width : 16 mm<br>Width available for marking : 12 mm<br>Length 430 mm (24 modules) |

0044 41

0049 96

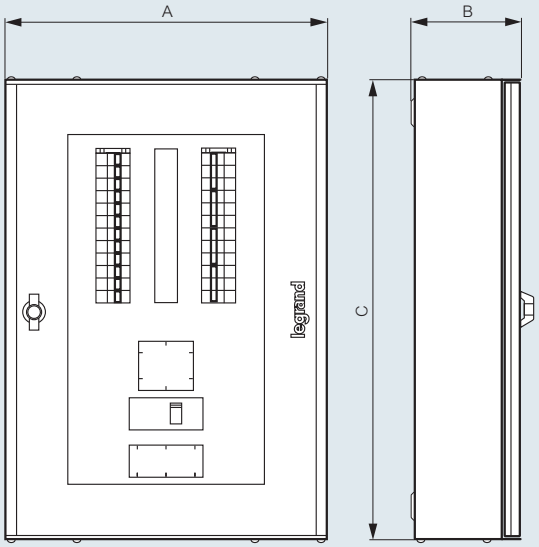
| | | Meter packs |
|---|---|---|
| | | Metering unit for type B distribution boards<br>Mounts directly onto the distribution board and utilises the existing gland plate<br>Supplied as a pre-wired unit complete with multi-function digital meter, see p. 86 |
| | | **With multi-function energy meter** |
| 1 | 6071 20 | 125 A meter pack |
| 1 | 6071 21 | 250 A meter pack |
| | | **With multi-function energy meter and Modbus connectivity** |
| 1 | 6071 22 | 125 A meter pack |
| 1 | 6071 23 | 250 A meter pack |



| Incoming devices | Page | Outgoing devices | Page |
|---|---|---|---|
| Switch disconnectors 100-125 A | 100 | MCBs 10 kA | 79 |
| Trip-free switch 250 A | 65/66 | RCBOs 10 kA | 84 |
| MCCBs 125 A | 64 | | |
| MCCBs 250 A | 65/66 | | |

# type B distribution boards

## ■ Dimensions (mm)




### 125 A TP & N standard board (solid or glass door)

| No. of ways | A | B | C(1) |
|---|---|---|---|
| 4 | 450 | 150 | 555 |
| 6 | 450 | 150 | 605 |
| 8 | 450 | 150 | 655 |
| 12 | 450 | 150 | 805 |
| 16 | 450 | 150 | 855 |
| 24 | 450 | 150 | 1 205 |

### 250 A TP & N standard board (solid or glass door)

| No. of ways | A | B | C(1) |
|---|---|---|---|
| 4 | 450 | 150 | 655 |
| 6 | 450 | 150 | 705 |
| 8 | 450 | 150 | 755 |
| 12 | 450 | 150 | 855 |
| 16 | 450 | 150 | 955 |
| 24 | 450 | 150 | 1 205 |

### 125 A 1P - 4P flexible board (solid or glass door)

| No. of ways | A | B | C(1) |
|---|---|---|---|
| 24 | 450 | 150 | 655 |
| 36 | 450 | 150 | 805 |
| 48 | 450 | 150 | 855 |
| 72 | 450 | 150 | 1 205 |

### 250 A 1P - 4P flexible board (solid or glass door)

| No. of ways | A | B | C(1) |
|---|---|---|---|
| 24 | 450 | 150 | 755 |
| 36 | 450 | 150 | 855 |
| 48 | 450 | 150 | 955 |
| 72 | 450 | 150 | 1 205 |

(1) Boards with 4 pole MCCB incomers fitted with earth leakage modules require the extra cabling space provided by bottom mounted cable boxes, Cat. No. 6071 72, see p. 59
(For height with cable box add 200 mm to dimension C)

# type A distribution boards

type A distribution boards

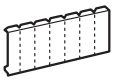
6022 53

*Dimensions (opposite)*

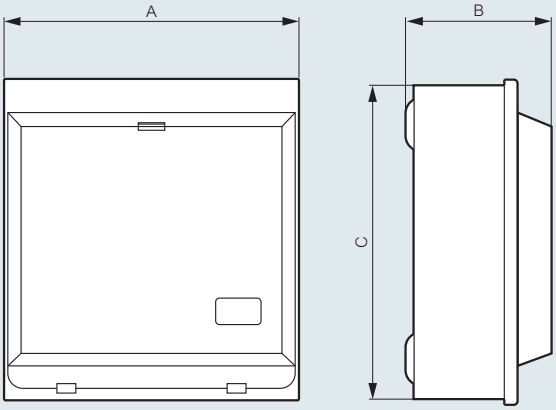
Conform to BS EN 60439-3
Enclosure 1·2 mm thick steel with polyester powder coated grey RAL 7035

| Pack | Cat. Nos. | **Metal with 100 A switch disconnector** |
|---|---|---|
| | | Lockable with Ø5 mm padlock (not supplied), see p. 60 |
| | | 6 to 18 way |
| | | No. of SP outgoing ways |
| 1 | 6022 51 | 6 |
| 1 | 6022 52 | 10 |
| 1 | 6022 53 | 14 |
| 1 | 6022 54 | 18 |

| | | **Accessory** |
|---|---|---|
| | | **Grey blanking plate RAL 7035** |
| 10 | 0016 65 | 18 module, blanking strip |



## ■ Dimensions (mm)




**Metal with 100 A switch disconnector**

| No. of ways | A | B | C |
|---|---|---|---|
| **6** | 260 | 120 | 235 |
| **10** | 332 | 120 | 235 |
| **14** | 377 | 120 | 235 |
| **18** | 449 | 120 | 235 |

**Other configurations available to special order**

**Contact us on +44 (0) 845 605 4333**

# DPX® MCCBs
## selection chart

| TYPE OF CASE AND SIZE | | | | | | |
|---|---|---|---|---|---|---|
| | | DPX 125 | DPX 125 | | | DPX 250 ER |
| | | | | | | |
| **TYPE OF MCCB** | | | | | | |
| | | DPX-E | DPX-E (16 kA) | DPX (25 kA) | DPX (36 kA) | DPX (36 kA) |
| Number of poles | | 1 | 3-4 | | | 3-4 |
| Nominal rating In (A) | | 16-125 | 16-125 | | | 25-250 |
| **ELECTRICAL CHARACTERISTICS CONFORMING TO EN 60947-2** | | | | | | |
| Rated operating voltage Ue (50-60 Hz) ∿ | | 230 | 500 | | | 500 |
| Rated operating voltage Ue = (V) | | – | 250 | | | 250 |
| Rated insulation voltage Ui ∿ (V) | | 290 | 500 | | | 500 |
| Rated impulse withstand voltage Uimp (kV) | | 6 | 6 | | | 6 |
| Category of use | | A | A | | | A |
| Ultimate breaking capacity (kA) | 230 V∿ | 16 | 22 | 35 | 40 | 50 |
| | 400 V∿ | – | 16 | 25 | 36 | 36 |
| | 440 V∿ | – | 10 | 18 | 20 | 25 |
| | 480/500 V∿ | – | 8 | 12 | 14 | 12 |
| | 600 V∿ | – | – | | | – |
| | 690 V∿ | – | – | | | – |
| | 250 V⎓ | – | 16 | 25 | 30 | 36 |
| Standard breaking capacity Ics (% Icu) | | 50 | 100 | 50 | 75 | 75 |
| Rated closing capacity on short-circuit (400 V∿) | | 32 | 32 | 52·5 | 75·6 | 75·6 |
| Rated short-time withstand current Icw (kA) | | – | – | | | – |
| Endurance (o.c. cycle) | mechanical | 25 500 | 25 000 | | | 20 000 |
| | electrical | 8 500 | 8 000 | | | 8 000 |
| Isolation capability | | • | • | | | |
| **TYPE OF PROTECTION** | | | | | | |
| Thermal-magnetic release | | • | • | | | • |
| Earth leakage modules | underneath | | • | | | • |
| | side by side | | • | | | • |
| **DIMENSIONS AND WEIGHTS** | | | | | | |
| Dimensions (L x H x D) (mm) | single pole | 25 x 120 x 74 | – | | | – |
| | triple pole | | 75·6 x 120 x 74 | | | 90 x 176 x 74 |
| | four pole | | 101 x 120 x 74 | | | 120 x 176 x 74 |
| Weight (kg) | triple pole | | 1 | | | 1·6 |
| | four pole | | 1·2 | | | 2·1 |
| Allen key size (mm) A/F (screw size) | | 4 | 4 | | | 6 (M8) |

| TYPE OF CASE AND SIZE | | | | | | |
|---|---|---|---|---|---|---|
| | DPX 250 | | DPX 630 | | DPX 1 250 | |
| | **TYPE OF MCCB** | | | | | |
| | **DPX** | **DPX-H** | **DPX** | **DPX-H** | **DPX** | **DPX-H** |
| | 3-4 | | 3-4 | | 3-4 | |
| | 100-250 | | 250-630 | | 500-800 | |
| | **ELECTRICAL CHARACTERISTICS CONFORMING TO EN 60947-2** | | | | | |
| | 690 | | 690 | | 690 | |
| | 250 | | 250 | | 250 | |
| | 690 | | 690 | | 690 | |
| | 8 | | 8 | | 8 | |
| | A | | A | | A | |
| | 60 | 100 | 60 | 100 | 80 | 100 |
| | 36 | 70 | 36 | 70 | 50 | 70 |
| | 30 | 60 | 30 | 60 | 45 | 65 |
| | 25 | 40 | 25 | 40 | 35 | 45 |
| | 20 | 25 | 20 | 25 | 25 | 35 |
| | 16 | 20 | 16 | 20 | 25 | 25 |
| | 36 | 40 | – | – | 50 | 50 |
| | 100 | 75 | 100 | 75 | 100 | 75 |
| | 75·6 | 154 | 75·6 | 154 | 105 | 154 |
| | – | | – | | – | |
| | 20 000 | | 15 000 | | 10 000 | |
| | 8 000 | | 5 000 | | 4 000 | |
| | • | | | | | |
| | **TYPE OF PROTECTION** | | | | | |
| | • | | • | | • | |
| | • | | • | | | |
| | | | | | | |
| | **DIMENSIONS AND WEIGHTS** | | | | | |
| | – | | – | | – | |
| | 105 x 200 x 105 | | 140 x 260 x 105 | | 210 x 320 x 140 | |
| | 140 x 200 x 105 | | 183 x 260 x 105 | | 280 x 320 x 140 | |
| | 2·5 | | 5·5 | | 12·2 ≤ 800 > 18 | |
| | 3·7 | | 6·4 | | 15·1 ≤ 800 > 23·4 | |
| | 6 (M8) | | 8 (M10) | | 10 (M12) | |

# DPX® 125
## MCCBs from 16 to 125 A and trip-free switches

0250 18

0250 45

0250 99

*Selectivity and co-ordination (p. 75-76)*
*Electrical characteristics (p. 70)*
*Dimensions (p. 77)*
*Auxiliaries (p. 68)*

### DPX-E 125 and DPX 125 MCCBs

Conform to BS EN 60947-2
Supplied complete with :
- cage terminals 70 mm² max.
- terminal shields
Fixed version - front terminals
Max. rated voltage 500 V∿ - 50/60 Hz
230 V∿ for single pole
Thermal release adjustable from 0·7 to 1 In
3 pole breakers supplied with 2 insulating shields
4 pole breakers supplied with 3 insulating shields
Fixed for single pole
Fixed magnetic at 10 In in factory
Can be mounted on rail ⎍ with fixing plate Cat. No. 0262 08

**DPX-E 125 - 16 kA**

Breaking capacity Icu : 16 kA (230 V∿)

| Pack | Cat. Nos. 1 P | In |
|---|---|---|
| 1 | 0250 00 | 16 A |
| 1 | 0250 01 | 20 A |
| 1 | 0250 02 | 25 A |
| 1 | 0250 03 | 32 A |
| 1 | 0250 04 | 40 A |
| 1 | 0250 05 | 50 A |
| 1 | 0250 06 | 63 A |
| 1 | 0250 07 | 80 A |
| 1 | 0250 08 | 100 A |
| 1 | 0250 09 | 125 A |

Breaking capacity Icu : 16 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0250 16 | 0250 24 | 16 A |
| 1 | 0250 17 | 0250 25 | 25 A |
| 1 | 0250 18 | 0250 26 | 40 A |
| 1 | 0250 19 | 0250 27 | 63 A |
| 1 | 0250 20 | 0250 28 | 100 A |
| 1 | 0250 21 | 0250 29 | 125 A |

**DPX 125 - 25 kA**

Breaking capacity Icu : 25 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0250 36 | 0250 44 | 16 A |
| 1 | 0250 37 | 0250 45 | 25 A |
| 1 | 0250 38 | 0250 46 | 40 A |
| 1 | 0250 39 | 0250 47 | 63 A |
| 1 | 0250 40 | 0250 48 | 100 A |
| 1 | 0250 41 | 0250 49 | 125 A |

**DPX 125 - 36 kA**

Breaking capacity Icu : 36 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0250 50 | 0250 58 | 16 A |
| 1 | 0250 51 | 0250 59 | 25 A |
| 1 | 0250 52 | 0250 60 | 40 A |
| 1 | 0250 53 | 0250 61 | 63 A |
| 1 | 0250 54 | 0250 62 | 100 A |
| 1 | 0250 55 | 0250 63 | 125 A |

### DPX-I 125 trip-free switches

Conform to BS EN 60947-3
Category of use AC 23 A
Max. rated voltage 500 V∿ - 50/60 Hz
Without thermal-magnetic release

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0250 98 | 0250 99 | 125 A |

# DPX® 125
## earth leakage module and accessories

0260 14

0262 08

*Dimensions (p. 77)*

### Electronic earth leakage module

Can be fitted directly on to DPX-E 125, DPX 125 and DPX-I 125
Operating voltage : 230 to 500 V∿
Adjustable and sealable sensitivity :
0·03 - 0·3 - 1 - 3 A
Adjustable and sealable time delay :
0 - 0·3 - 1 - 3 s
Equipped with :
• Test and reset push button
• Isolator switch for electronic circuits (for commissioning tests) to open the DPX automatically

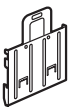
**Mounted underneath**

| Pack | Cat. Nos. 4 P | In |
|---|---|---|
| 1 | 0260 14 | 125 A |

### Accessories

MCCBs are supplied with insulating shields (2 per TP, 3 per 4P). Additional shields are also available

**Fixing plate**
For fixing devices on rail
For DPX 125 or downstream earth leakage module



| Pack | Cat. Nos. |
|---|---|
| 1 | 0262 08 |

**Insulating shields**
Used to isolate the connections between each pole
Set of 3 insulating shields

| Pack | Cat. Nos. |
|---|---|
| 1 | 0262 07 |

**Sealable terminal shields**
Set of 2 terminal shields

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P |
|---|---|---|
| 1 | 0262 05 | 0262 06 |

**Padlocking accessory**
For locking in "OFF" position

| Pack | Cat. Nos. |
|---|---|
| 1 | 0262 00 |

# DPX® 250 ER
## MCCBs from 25 to 250 A and trip-free switches

0252 36

0252 99

*Selectivity and co-ordination (p. 75-76)*
*Electrical characteristics (p. 71)*
*Dimensions (p. 77)*
*Auxiliaries (p. 68)*

### DPX 250 ER MCCBs

Conform to BS EN 60947-2
Fixed version - front terminals
Max. rated voltage 500 V∿ - 50/60 Hz
230 V∿ for single pole
Thermal release adjustable from 0·64 to 1 In
3 pole breakers supplied with
2 insulating shields
4 pole breakers supplied with
3 insulating shields
Magnetic fixed at 10 In
Can be mounted on rail ⎍ with fixing plate
Cat. No. 0262 09

**DPX 250 ER - 25 kA**

Breaking capacity Icu : 25 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0252 01 | 0252 11 | 25 A |
| 1 | 0252 02 | 0252 12 | 40 A |
| 1 | 0252 03 | 0252 13 | 63 A |
| 1 | 0252 04 | 0252 14 | 100 A |
| 1 | 0252 05 | 0252 15 | 160 A |
| 1 | 0252 06 | 0252 16 | 250 A |

**DPX 250 ER - 36 kA**

Breaking capacity Icu : 36 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | | 0252 31 | 25 A |
| 1 | 0252 22 | 0252 32 | 40 A |
| 1 | 0252 23 | 0252 33 | 63 A |
| 1 | 0252 24 | 0252 34 | 100 A |
| 1 | 0252 25 | 0252 35 | 160 A |
| 1 | 0252 30 | 0252 37 | 200 A |
| 1 | 0252 26 | 0252 36 | 250 A |

### DPX-I 250 ER trip-free switches

Conform to BS EN 60947-3
Category of use AC 23 A

| Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|
| 0252 96 | 0252 97 | 160 A |
| 0252 98 | 0252 99 | 250 A |

# DPX® 250 ER
## earth leakage module and accessories

0260 38

0262 00

*Dimensions (p. 77)*

### Electronic earth leakage module

Conform to BS EN 60947-2 and
BS EN 60947-3
Thermal release adjustable from 0·64 to 1 In
Can be fitted directly on to DPX 250 ER,
DPX-I 250 ER and trip-free switches
Operating voltage : 230 to 500 V∿
Adjustable and sealable sensitivity :
0·03 - 0·3 - 1 - 3 A
Adjustable tripping : 0 - 0·3 - 1 - 3 s
Switch for mechanical tests on operation
and insulation of the device in case of
installation insulation test
Nominal operating voltage : 230 - 500 V∿

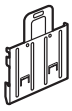
**Mounted underneath**

| Pack | Cat. Nos. 4 P | In |
|---|---|---|
| 1 | 0260 38 | 250 A |

### Accessories

MCCBs are supplied with insulating shields (2 per 3P, 3 per 4P). Additional shields are also available

**Fixing plate**
For fixing devices on rail
For DPX 160, DPX 250 ER or downstream earth leakage module
Pack: 1 — Cat. No. 0262 09



**Insulating shields**
Used to isolate the connections between each pole
Set of 3 insulating shields
Pack: 1 — Cat. No. 0262 07

**Sealable terminal shields**
Set of 2 terminal shields
Pack: 1 — Cat. Nos. 3 P 0262 85 | 4 P 0262 86

**Connection terminals (cage)**
Set of 4 terminals for cables without lugs - 185 mm² max. (rigid) or 150 mm² max. (flexible)
Pack: 1 — Cat. No. 0262 88

**Spreaders**
For increasing the distance between each pole to be connected
Set of incoming or outgoing spreaders
Pack: 1 — Cat. Nos. 3 P 0262 90 | 4 P 0262 91

**Padlocking accessory**
For locking in "OFF" position
Pack: 1 — Cat. No. 0262 00

# DPX® 250
## MCCBs from 100 to 250 A and trip-free switches

0253 49

0253 73

*Selectivity and co-ordination (p. 75-76)*
*Electrical characteristics (p. 72)*
*Dimensions (p. 77)*
*Auxiliaries (p. 68)*

### DPX 250 MCCBs

Conform to BS EN 60947-2
Thermal release adjustable from 0·64 to 1 In
3 pole breakers supplied with 2 insulating shields
4 pole breakers supplied with 3 insulating shields
Adjustable magnetic from 3·5 to 10 In
Sealable thermal and magnetic releases
Supplied with terminal shields

**DPX 250 - 36 kA**

Breaking capacity Icu : 36 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0253 30 | 0253 47 | 100 A |
| 1 | 0253 31 | 0253 48 | 160 A |
| 1 | 0253 32 | 0253 49 | 250 A |

**DPX-H 250 - 70 kA**

Breaking capacity Icu : 70 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0253 54 | 0253 71 | 100 A |
| 1 | 0253 55 | 0253 72 | 160 A |
| 1 | 0253 56 | 0253 73 | 250 A |

### DPX-I 250 trip-free switches

Conform to BS EN 60947-3
Category of use AC 23 A
Fixed version - front terminals
Without thermal-magnetic release

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0253 98 | 0253 99 | 250 A |

# DPX® 250
## earth leakage modules and accessories

0260 55

*Dimensions (p. 77)*

### Electronic earth leakage modules

Can be fitted directly on to MCCBs and trip-free switches
Adjustable and sealable sensitivity : 0·03 - 0·3 - 1 - 3 A
Adjustable tripping : 0 - 0·3 - 1 - 3 s
Test push button - Reset push button
Integrated remote earth fault signalling contact

**Mounted underneath**

Rated operating voltage : 230 - 500 V∿

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0260 54 | 0260 55 | 250 A |

### Accessories

MCCBs are supplied with insulating shields (2 per 3P, 3 per 4P). Additional shields are also available

**Insulating shields**
Used to isolate the connections between each pole
Set of 3 insulating shields

| Pack | Cat. Nos. |
|---|---|
| 1 | 0262 30 |

**Sealable terminal shields**
Set of 2 terminal shields

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P |
|---|---|---|
| 1 | 0262 26 | 0262 27 |

**Connection terminals (cage)**
Sets of 4 terminals for bare cables 185 mm² max. (rigid) or 150 mm² max. (flexible)

| Pack | Cat. Nos. |
|---|---|
| 1 | 0262 35 |

**Padlocking accessory**
For locking in "OFF" position

| Pack | Cat. Nos. |
|---|---|
| 1 | 0262 21 |

# DPX® 630
## MCCBs from 250 to 630 A and trip-free switches

0255 40

0255 58

*Selectivity and co-ordination (p. 75-76)*
*Electrical characteristics (p. 73)*
*Dimensions (p. 78)*
*Auxiliaries (p. 68)*

### DPX 630 MCCBs

Conform to BS EN 60947-2
Fixed version - front terminals
Max. rated voltage 690 V∿ - 50/60 Hz
230 V∿ for single pole
Thermal release adjustable from 0·8 to 1 In
3 pole breakers supplied with 2 insulating shields
4 pole breakers supplied with 3 insulating shields
Magnetic release adjustable from 5 to 10 In
Supplied with incoming terminals mounted

**DPX 630 - 36 kA**

Breaking capacity Icu : 36 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0255 21 | 0255 36 | 250 A |
| 1 | 0255 22 | 0255 37 | 320 A |
| 1 | 0255 23 | 0255 38 | 400 A |
| 1 | 0255 24 | 0255 40 | 630 A |

**DPX-H 630 - 70 kA**

Breaking capacity Icu : 70 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0255 41 | 0255 56 | 250 A |
| 1 | 0255 42 | 0255 57 | 320 A |
| 1 | 0255 43 | 0255 58 | 400 A |
| 1 | 0255 44 | 0255 60 | 630 A |

### DPX-I 630 trip-free switches

Conform to BS EN 60947-3
Category of use AC 23 A

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0255 96 | 0255 97 | 400 A |
| 1 | 0255 88 | 0255 89 | 630 A |

# DPX® 630
## earth leakage modules and accessories

0260 61

0262 51

0262 40

*Dimensions (p. 78)*

### Electronic earth leakage modules

Can be fitted directly on to standard MCCBs and trip-free switches
Adjustable and sealable sensitivity : 0·03 - 0·3 - 1 - 3 A
Adjustable tripping : 0 - 0·3 - 1 - 3 s
Test push button - Reset push button
Integrated remote earth fault signalling contact
Rated operating voltage : 230 - 500 V∿

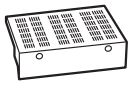
**Mounted underneath**

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | |
|---|---|---|---|
| 1 | 0260 60 | 0260 61 | For DPX 630 (up to In 400 A) |
| 1 | 0260 64 | 0260 65 | For DPX 630 (In 630 A) |

### Accessories

MCCBs are supplied with insulating shields (2 per 3P, 3 per 4P). Additional shields are also available

**Insulating shields**
Used to isolate the connections between each pole
Set of 3 insulating shields — 1 — 0262 30



**Sealable terminal shields**
Set of 2 terminal shields — 1 — 3 P 0262 44 | 4 P 0262 45

**Connection terminals (cage)**
Set of 4 terminals for cables, 300 mm² max. (rigid) or 240 mm² max. (flexible) — 1 — 0262 50

**High-capacity terminals**
Set of 4 for 2 x 240 mm² (rigid) or 2 x 185 mm² flexible — 1 — 0262 51

**Padlocking accessory**
For locking in “OFF” position — 1 — 0262 40

# DPX® 1 250
## MCCBs from 500 to 800 A, trip-free switches and accessories

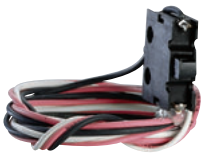
# control and signalling auxiliaries
## for all DPX devices

0258 02

0262 65

0262 70

0262 60


0261 60

0261 83

*Selectivity and co-ordination (p. 75-76)*
*Electrical characteristics (p. 74)*
*Dimensions (p. 78)*
*Auxiliaries (opposite)*

### DPX 1 250 MCCBs

Conform to BS EN 60947-2
Fixed version - front terminals
Max. rated voltage 690 V∿ - 50/60 Hz
Thermal release adjustable from 0·8 to 1 In
3 pole breakers supplied with 2 insulating shields
4 pole breakers supplied with 3 insulating shields
Magnetic release adjustable from 5 to 10 In from 500 to 800 A
Magnetic release adjustable from 3 to 6 In from 1 000 to 1 250 A
Supplied with incoming terminals mounted

**DPX 1 250 - 50 kA**
Breaking capacity Icu : 50 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P(1) | In |
|---|---|---|---|
| 1 | 0258 00 | 0258 07 | 500 A |
| 1 | 0258 01 | 0258 08 | 630 A |
| 1 | 0258 02 | 0258 09 | 800 A |

**DPX-H 1 250 - 70 kA**
Breaking capacity Icu : 70 kA (400 V∿)

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P(1) | In |
|---|---|---|---|
| 1 | 0258 14 | | 500 A |
| 1 | 0258 15 | 0258 22 | 630 A |
| 1 | 0258 16 | 0258 23 | 800 A |

### DPX-I 1 250 trip-free switches

Conform to BS EN 60947-3
Category of use AC 23 A
Without thermal-magnetic release

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P | In |
|---|---|---|---|
| 1 | 0257 92 | 0257 93 | 630 A |
| 1 | 0257 94 | 0257 95 | 800 A |

### Accessories

MCCBs are supplied with insulating shields (2 per 3P, 3 per 4P). Additional shields are also available

**Insulating shields**
Used to isolate the connections between each pole
1 — 0262 66 — Set of 3 insulation shields

**Sealable terminal shields**
Set of 2 short terminal shields

| Pack | Cat. Nos. 3 P | Cat. Nos. 4 P |
|---|---|---|
| 1 | 0262 64 | 0262 65 |

**Connection terminals**
For connecting bare cables without lugs
1 — 0262 69 — Set of 1 terminal 2 x 240 mm² (rigid) or 2 x 185 mm² (flexible)
1 — 0262 70 — Set of 1 high-capacity terminal 4 x 240 mm² for rigid cable 4 x 185 mm² for flexible cable

**Extended front terminals**
1 — 0262 67 — Short terminals
1 — 0262 68 — Long terminals

**Padlocking accessory**
1 — 0262 60 — For handle, locking in "OFF" position

(1) 3 P + N (Neutral on left - not protected)

### Auxiliary contact or fault signal

For signalling the state of the contacts or opening of the MCCB on a fault

**For MCCBs and trip-free switches from 16 to 800 A**

| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0261 60 | Changeover switch 3 A - 240 V |

### Shunt trips

Allow remote tripping of a DPX device

**For MCCBs and trip-free switches from 16 to 800 A**

| Pack | Shunt inrush power 300 VA | |
|---|---|---|
| 1 | 0261 64 | Coil voltage 24 V∿ and ⎓ |
| 1 | 0261 65 | Coil voltage 48 V∿ and ⎓ |
| 1 | 0261 66 | Coil voltage 110 V∿ and ⎓ |
| 1 | 0261 67 | Coil voltage 230 V∿ and ⎓ |
| 1 | 0261 68 | Coil voltage 400 V∿ and ⎓ |

### Undervoltage releases

Allow remote tripping of a DPX device

**For MCCBs and trip-free switches from 16 to 800 A**

| Pack | Undervoltage power consumption 5 VA: For DPX 125 | For all DPX 250 to 1250 | |
|---|---|---|---|
| 1 | 0261 70 | 0261 80 | Coil voltage 24 V⎓ |
| 1 | 0261 71 | 0261 81 | Coil voltage 24 V∿ |
| 1 | 0261 72 | 0261 82 | Coil voltage 48 V⎓ |
| 1 | 0261 76 | 0261 86 | Coil voltage 110 V∿ |
| 1 | 0261 73 | 0261 83 | Coil voltage 230 V∿ |
| 1 | 0261 74 | 0261 84 | Coil voltage 400 V∿ |

# technical information
## key to characteristic curves

### ■ Characteristic curves

**The graphs on the following pages detail the characteristic curves of each circuit breaking device**

**Complying with isolation requirements, the units are provided with fully visible contact indication and a lock-off facility**

### ■ Time/current characteristics : thermal-magnetic

Reference ambient temperature 40 °C (DPX)
I = actual current
Im = short-circuit operating time
Ir = operating current
1 = thermal release from cold
2 = thermal release from hot
Tolerance of magnetic release ±20 %

### ■ $I^2t$/Icc characteristics

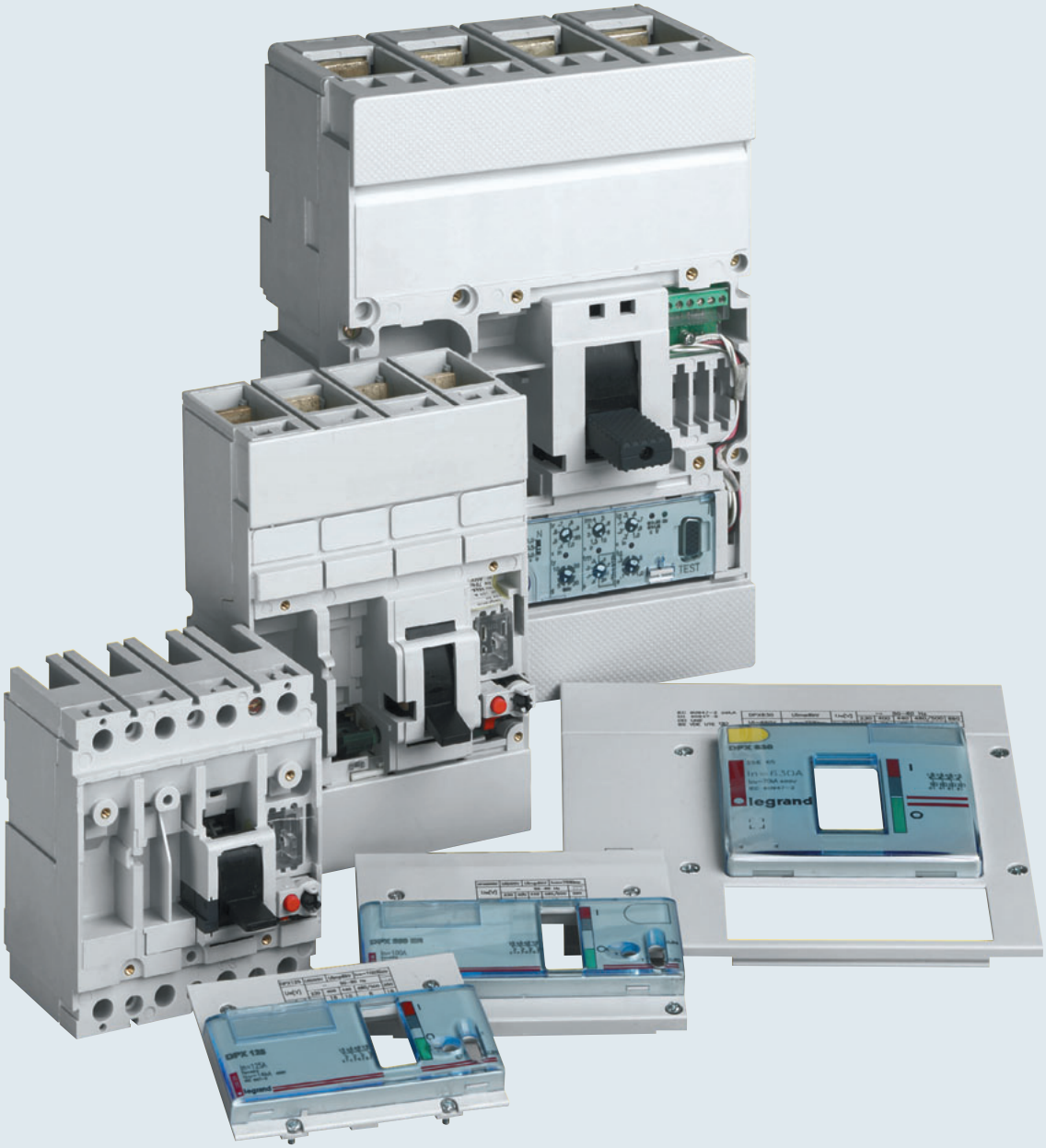
Icc = prospective symmetrical short-circuit current (mms value - A)
$I^2t$ = specific let through energy ($A^2s$)

### ■ Limiting characteristics

Icc = prospective symmetrical short-circuit current (mms value - A)
Ip = maximum peak value of current
= maximum peak values of short-circuit current corresponding to power factors indicated above
= maximum peak values of actual short-circuit current

### ■ Time/current characteristics : earth fault protection

In = residual operating current (sensitivity)
t = operating time



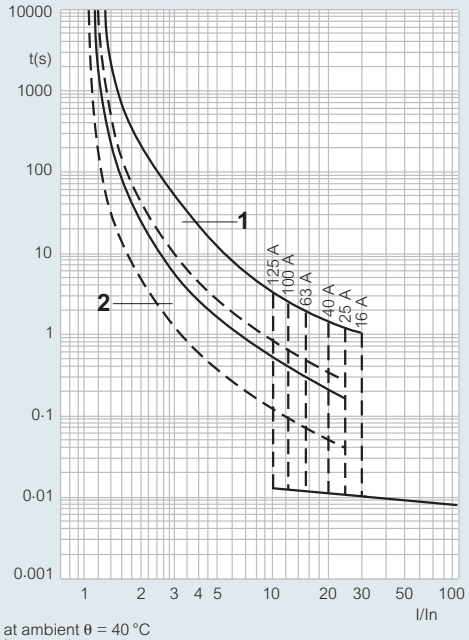
## ■ Electrical characteristics

| | |
|---|---|
| **Maximum nominal operating function** | 500 V∿ - 250 V⎓ |
| **Nominal frequency** | 50/60 Hz |
| **Category of use** | A |
| **Thermal adjustment** | 0·7 to 1 In |
| **Maximum permitted cross sections for integral cage terminals** | stranded cables : 70 mm²<br>flexible cables : 50 mm²<br>copper bar (width) : 12 mm |

### Nominal breaking capacity (kA) (BS EN 60947-2)

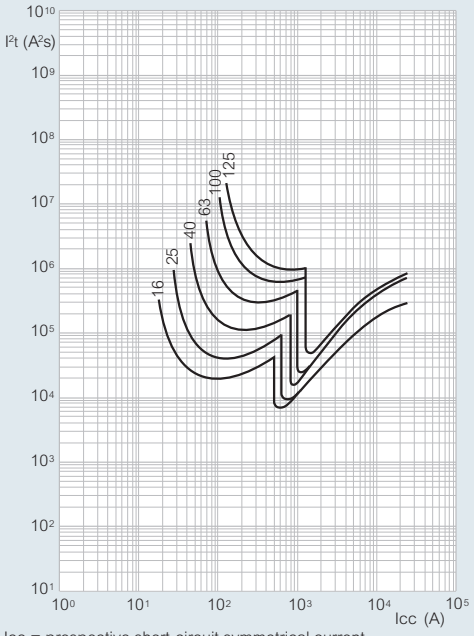
| Ue | DPX 125 25 kA | | DPX 125 36 kA | |
|---|---|---|---|---|
| | Icu (kA) | Ics (%Icu) | Icu (kA) | Ics (%Icu) |
| **400 V∿** | 25 | 50 | 36 | 75 |
| **230 V∿** | 35 | 50 | 40 | 75 |

## ■ Tripping curves




at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)

## ■ Thermal stress limitation curves




Icc = prospective short-circuit symmetrical current (rms values in A)
I²t = limited thermal stress (in A²s)

### Nominal current (In) at 40 °C (A) for DPX 125

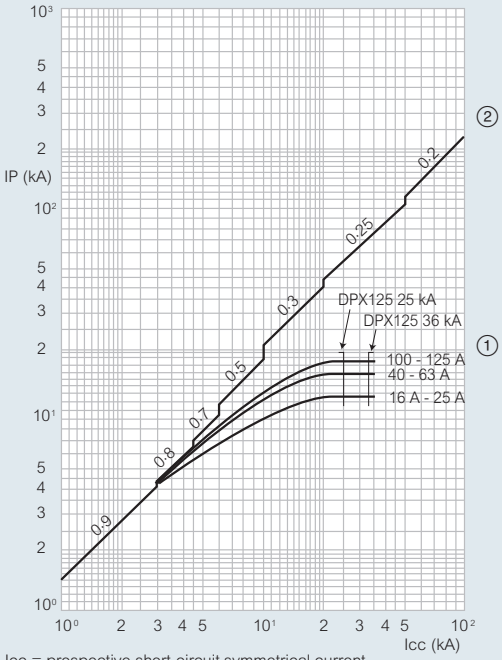
| In (A) | 16 | 25 | 40 | 63 | 100 | 125 |
|---|---|---|---|---|---|---|
| **Phase** | 16 | 25 | 40 | 63 | 100 | 125 |
| **N** | 16 | 25 | 40 | 63 | 100 | 125 |
| **N/2** | – | – | – | – | 63 | 63 |

### Fixed magnetic threshold (Im) (A)(1) for DPX 125

| In (A) | 16 | 25 | 40 | 63 | 100 | 125 |
|---|---|---|---|---|---|---|
| **Phase** | 480 | 625 | 800 | 950 | 1250 | 1 250 |
| **N** | 480 | 625 | 800 | 950 | 950 | 950 |

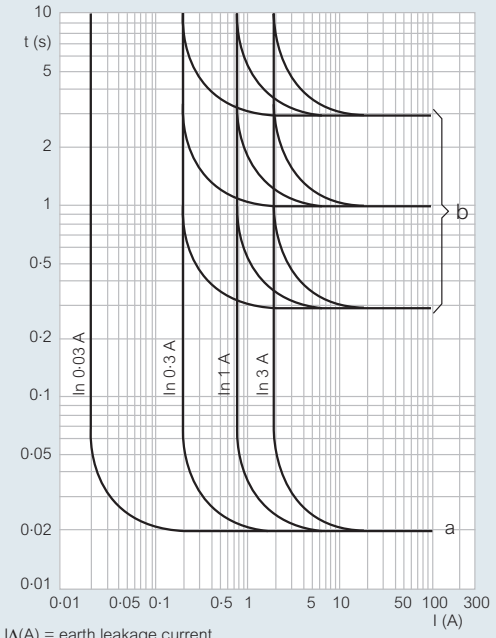
(1) Trip current for 50/60 Hz
For direct current, multiply by 1·5

## ■ Current limitation curves




Icc = prospective short-circuit symmetrical current (rms values in kA)
IP = maximum peak value (kA)
① = current, max. peak, short-circuit rms
② = current, unlimited peak (max.), corresponding to power factors shown above (0·15 to 0·9)

## ■ Differential tripping curves




IΔ(A) = earth leakage current
IΔn = nominal earth leakage current
a = instantaneous tripping point
b = 3 possible delay settings (0·3, 1 and 3 seconds)

# DPX® 250 ER

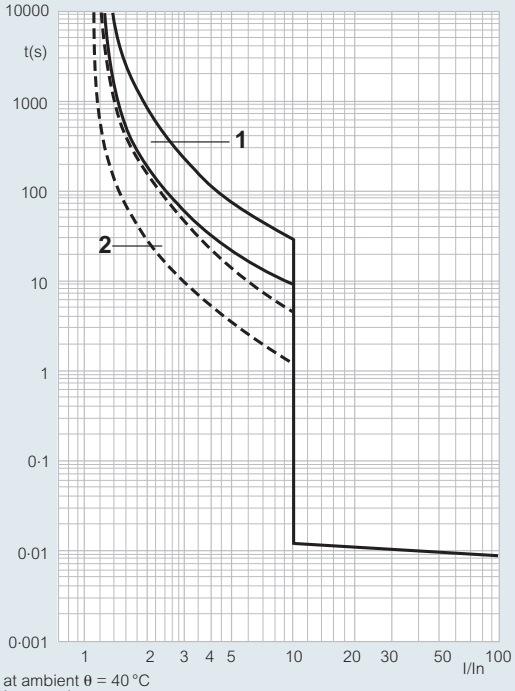
## ■ Electrical characteristics

| | |
|---|---|
| **Maximum nominal operating function** | 500 V∿ - 250 V⎓ |
| **Nominal frequency** | 50/60 Hz |
| **Category of use** | A |
| **Thermal adjustment** | 0·64 to 1 In |
| **Maximum permitted cross sections via optional cage terminals (set of 4 Cat. No. 0262 88 see p. 65)** | stranded cables : 185 mm²<br>flexible cables : 150 mm²<br>copper bar (width) : 22 mm (M8) |

### Nominal breaking capacity (kA) (BS EN 60947-2)

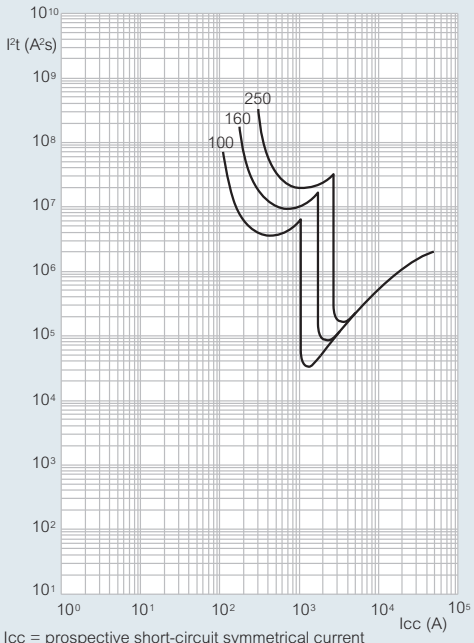
| | DPX 250 ER 25 kA | |
|---|---|---|
| **Ue** | **Icu (kA)** | **Ics (%Icu)** |
| **400 V∿** | 25 | 100 |
| **230 V∿** | 40 | 100 |

## ■ Tripping curves




at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)

## ■ Thermal stress limitation curves




Icc = prospective short-circuit symmetrical current (rms values in A)
I²t = limited thermal stress (in A²s)

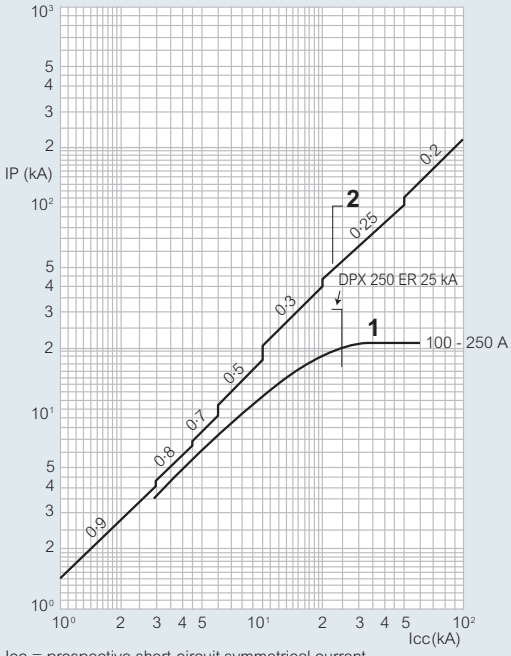
### Nominal current (In) at 40 °C (A) for DPX 250 ER

| In (A) | 100 | 160 | 250 |
|---|---|---|---|
| **Phase** | 100 | 160 | 250 |
| **N** | 100 | 160 | 250 |
| **N/2** | – | 100 | 160 |

### Fixed magnetic threshold (Im) (A) for DPX 250 ER

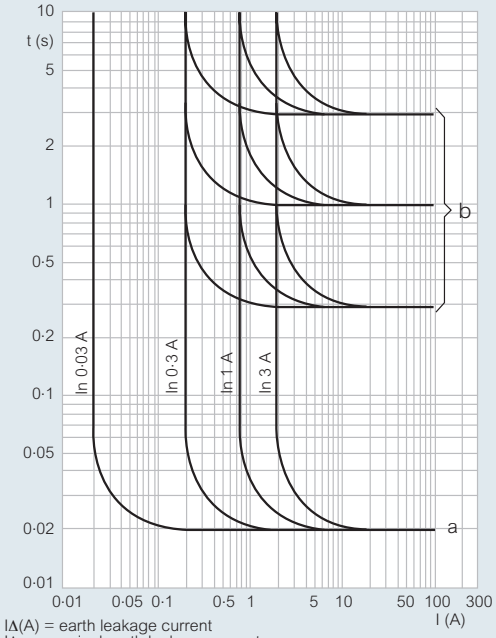
| In (A) | 100 | 160 | 250 |
|---|---|---|---|
| **Phase** | 1 000 | 1 600 | 2 500 |
| **N** | 1 000 | 1 600 | 2 500 |
| **N/2** | – | 1 000 | 1 600 |

## ■ Current limitation curves




Icc = prospective short-circuit symmetrical current (rms values in kA)
IP = maximum peak value (kA)
① = current, max. peak, short-circuit rms
② = current, unlimited peak (max.), corresponding to power factors shown above (0·2 to 0·9)

## ■ Differential tripping curves




IΔ(A) = earth leakage current
IΔn = nominal earth leakage current
a = instantaneous tripping point
b = 3 possible delay settings (0·3, 1 and 3 seconds)

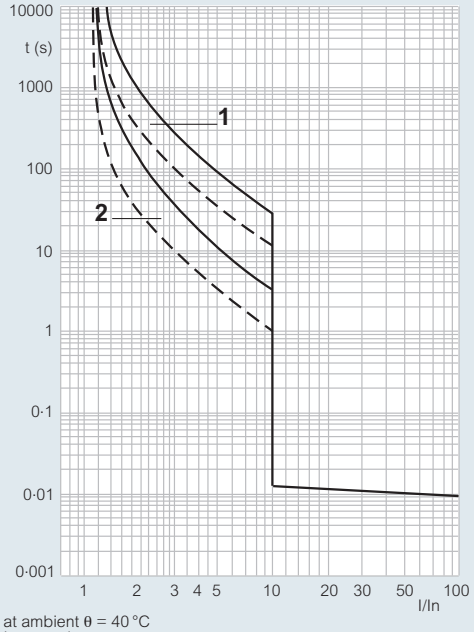
## Electrical characteristics

| | |
|---|---|
| **Maximum nominal operating function** | 690 V∿ - 250 V⎓ |
| **Nominal frequency** | 50/60 Hz |
| **Category of use** | A |
| **Thermal adjustment** | 0·64 to 1 In |
| **Magnetic release** | 3·5 to 10 In |
| **Maximum permitted cross sections via optional cage terminals (set of 4 Cat. No. 0262 35 see p. 66)** | stranded cables : 185 mm²<br>flexible cables : 150 mm²<br>copper bar (width) : 25 mm (M8) |

### Nominal breaking capacity (kA) (BS EN 60947-2)

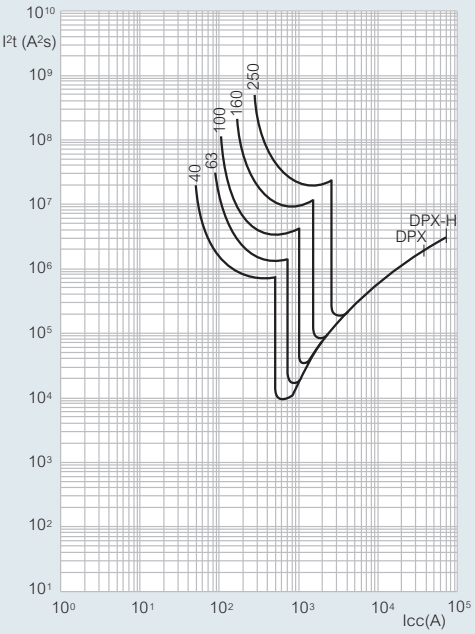
| Ue | DPX 250 36 kA | | DPX-H 250 70 kA | |
|---|---|---|---|---|
| | Icu (kA) | Ics (%Icu) | Icu (kA) | Ics (%Icu) |
| **400 V∿** | 36 | 100 | 70 | 75 |
| **230 V∿** | 60 | 100 | 100 | 75 |

## Tripping curves




at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)

## Thermal stress limitation curves




Icc = prospective short-circuit symmetrical current (rms values in A)
$I^2t$ = limited thermal stress (in $A^2s$)

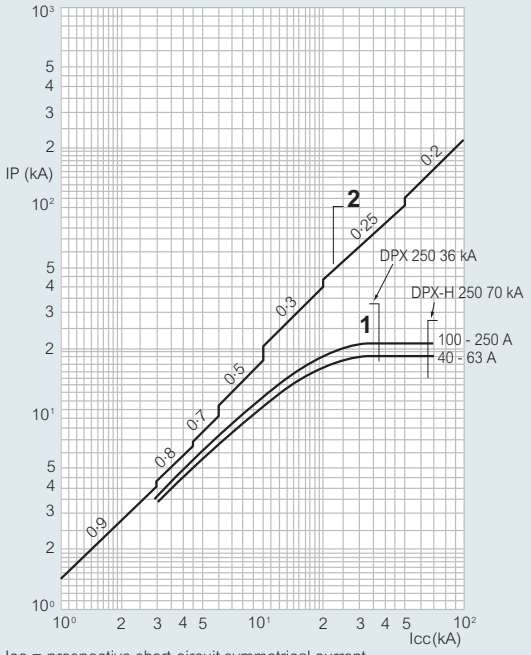
### Nominal current (In) at 40 °C (A) for DPX 250

| In (A) | 40 | 63 | 100 | 160 | 250 |
|---|---|---|---|---|---|
| **Phase** | 40 | 63 | 100 | 160 | 250 |
| **N** | 40 | 63 | 100 | 160 | 250 |
| **N/2** | 40 | 63 | 63 | 100 | 160 |

### Fixed magnetic threshold (Im) (A) for DPX 250

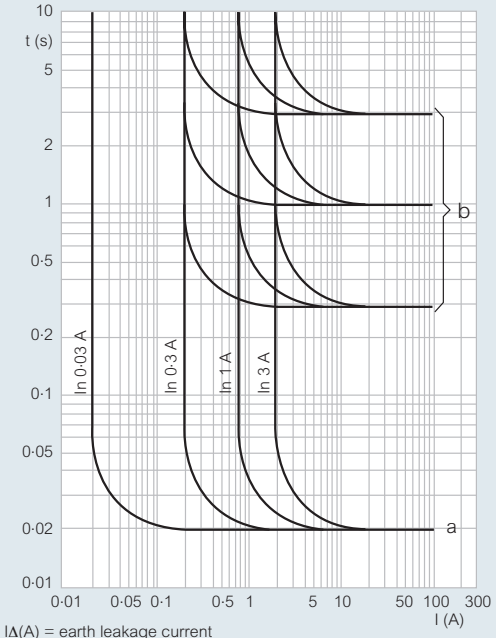
| In (A) | 40 | 63 | 100 | 160 | 250 |
|---|---|---|---|---|---|
| **Phase** | 140-400 | 220-630 | 350-1 000 | 560-1 600 | 900-2 500 |
| **N** | 140-400 | 220-630 | 220-630 | 350-1 000 | 560-1 600 |

## Current limitation curves




Icc = prospective short-circuit symmetrical current (rms values in kA)
IP = maximum peak value (kA)
① = current, max. peak, short-circuit rms
② = current, unlimited peak (max.), corresponding to power factors shown above (0·2 to 0·9)

## Differential tripping curves



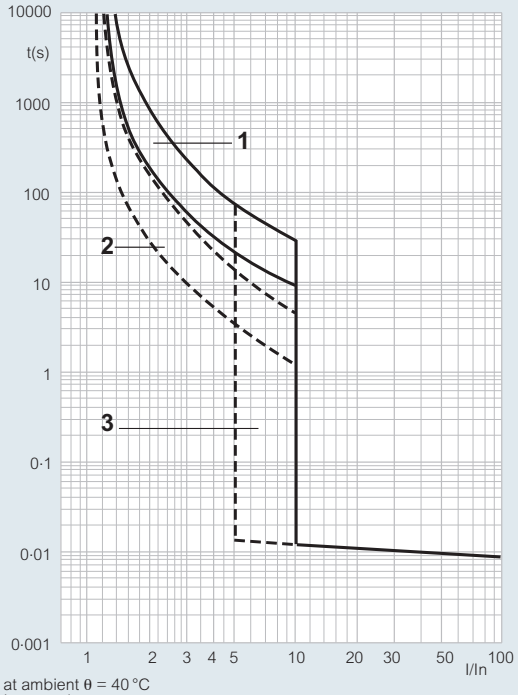

IΔ(A) = earth leakage current
IΔn = nominal earth leakage current
a = instantaneous tripping point
b = 3 possible delay settings (0·3, 1 and 3 seconds)

# DPX® 630

## ■ Electrical characteristics

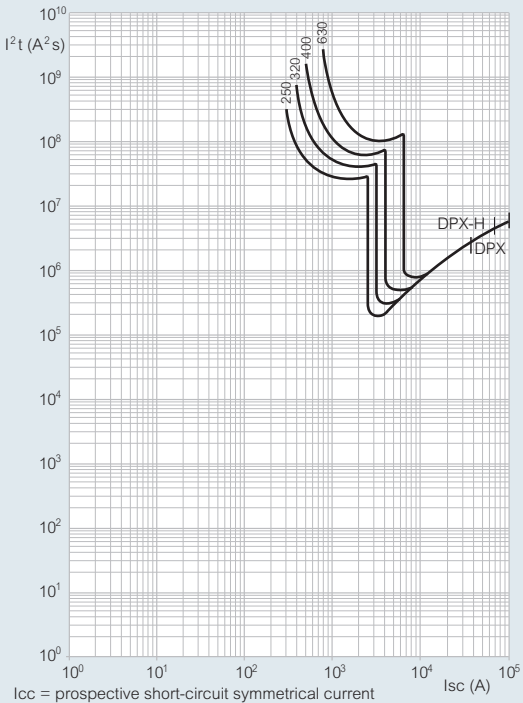
| | |
|---|---|
| **Maximum nominal operating function** | 690 V∿ |
| **Nominal frequency** | 50/60 Hz |
| **Category of use** | A |
| **Thermal adjustment** | 0·8 to 1 In |
| **Magnetic release** | 0·5 to 10 In |
| **Maximum permitted cross sections :<br>- via optional cage terminals (set of 4 Cat. No. 0262 50 see p. 67)<br>- via optional high capacity screw terminals (set of 4 Cat. No. 0262 51 see p. 67)** | stranded cables : 300 mm² (or 2 x 240 mm²)<br>flexible cables : 240 mm² (or 2 x 185 mm²)<br>copper bar (width) : 32 mm (M10 |

## ■ Tripping curves




at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)
③ = magnetic release zone

## ■ Thermal stress limitation curves




Icc = prospective short-circuit symmetrical current (rms values in A)
I²t = limited thermal stress (in A²s)

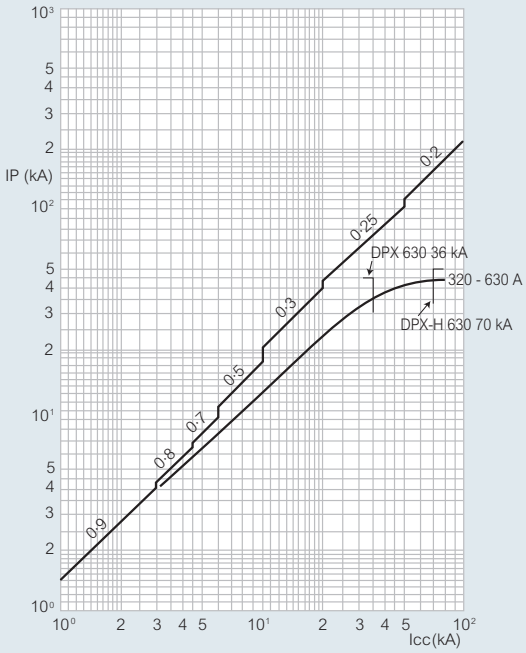
## Nominal breaking capacity (kA) (BS EN 60947-2)

| Ue | DPX 630 | | DPX-H 630 | |
|---|---|---|---|---|
| | Icu (kA) | Ics (%Icu) | Icu (kA) | Ics (%Icu) |
| **400 V∿** | 36 | 100 | 70 | 75 |
| **230 V∿** | 60 | 100 | 100 | 75 |

## Nominal current (In) for DPX 630 and DPX-H 630

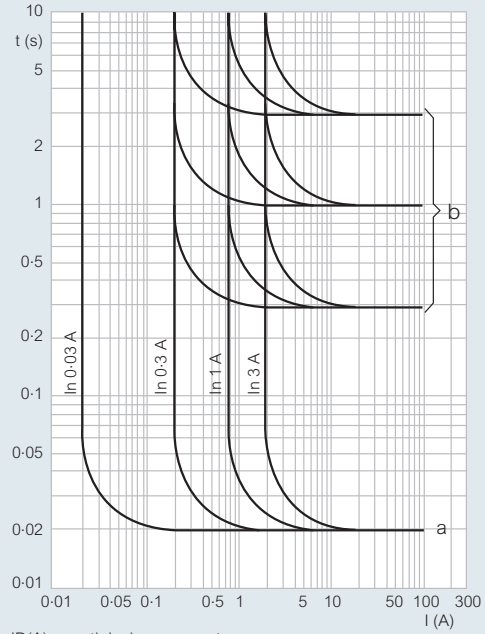
| Phase | 320 | 400 | 500 | 630 |
|---|---|---|---|---|
| **N** | 320 | 400 | 500 | 630 |
| **N/2** | 250 | 250 | 250 | 320 |

## ■ Current limitation curves




Icc = prospective short-circuit symmetrical current (rms values in kA)
I²t = limited thermal stress (in A²s)

## ■ Differential tripping curves

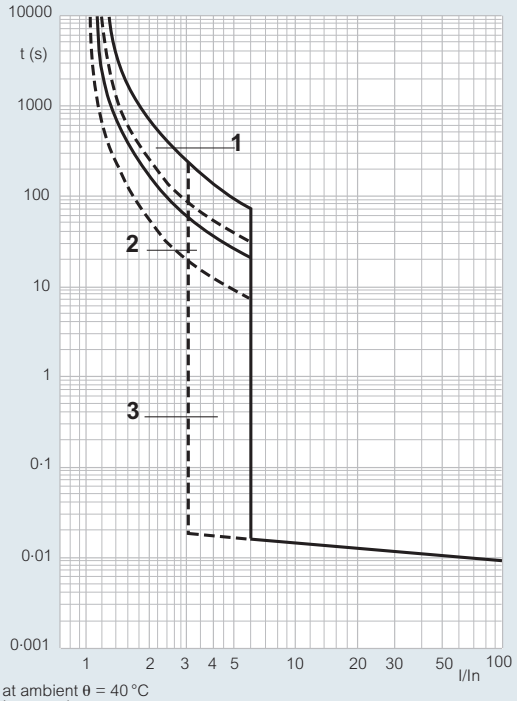



ID(A) = earth leakage current
IDn = nominal earth leakage current
a = instantaneous tripping point
b = 3 possible delay settings (0·3, 1 and 3 seconds)

## Electrical characteristics

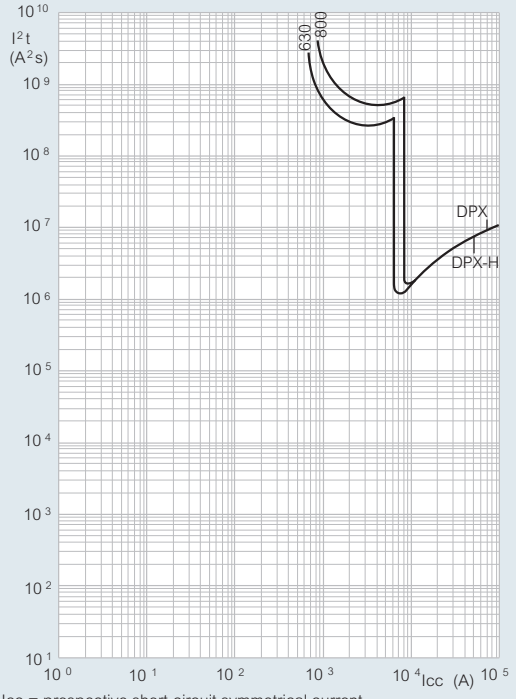
| | |
|---|---|
| **Maximum nominal operating function** | 690 V∿ |
| **Nominal frequency** | 50/60 Hz |
| **Category of use** | A |
| **Thermal adjustment** | 0·8 to 1 In |
| **Maximum permitted cross sections :**<br>**- 2 cables via optional screw terminals (set of 1, Cat. No. 0262 69, see p. 68)**<br>**- 4 cables via optional high capacity screw terminals (set of 1, Cat. No. 0262 70, see p. 68)** | 2 or 4 stranded cables : 240 mm²<br>2 or 4 flexible cables : 185 mm²<br>copper bar (width) : 50 mm (M12) |

## Tripping curves




at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)
③ = magnetic release zone

## Thermal stress limitation curves




Icc = prospective short-circuit symmetrical current (rms values in A)
$I^2t$ = limited thermal stress (in $A^2s$)

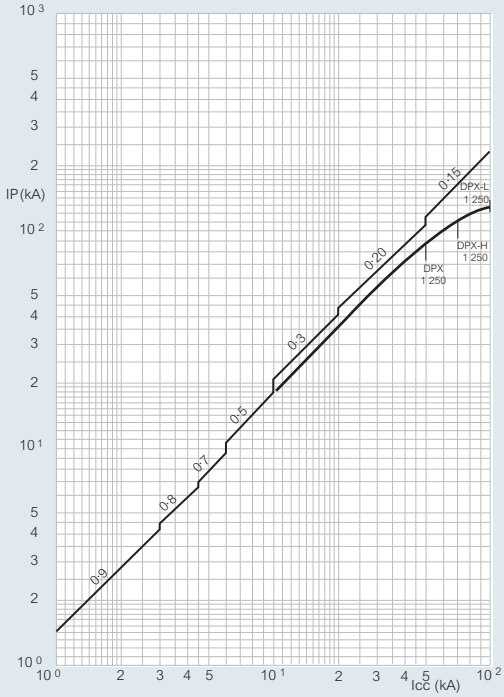
## Nominal breaking capacity (kA) (BS EN 60947-2)

| Ue | DPX 1 250 | | DPX-H 1 250 | |
|---|---|---|---|---|
| | Icu (kA) | Ics (%Icu) | Icu (kA) | Ics (%Icu) |
| **400 V∿** | 50 | 100 | 70 | 75 |
| **230 V∿** | 80 | 100 | 100 | 75 |

## Nominal current (In) for DPX 1 250 and DPX-H 1 250

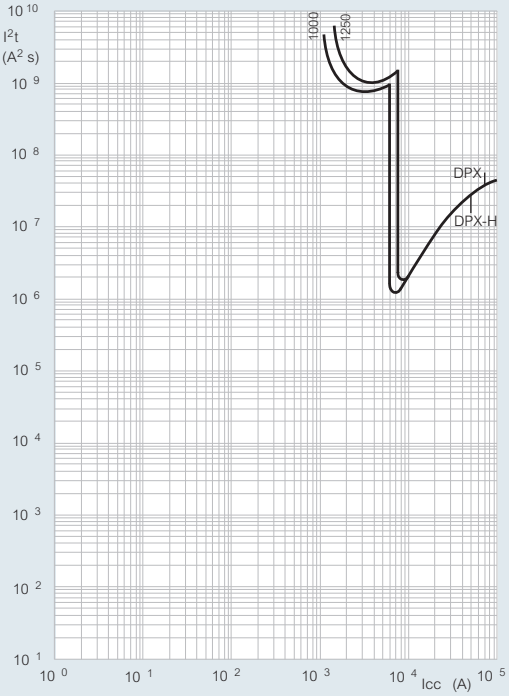
| Phase | 630 | 800 |
|---|---|---|

## Current limitation curves




Icc = prospective short-circuit symmetrical current (rms value in kA)
IP = maximum peak value (in kA)
① = max. peak rms short-circuit currents
② = max. unlimited peak currents, corresponding to power factors indicated above (0·15 to 0·9)

## Thermal stress limitation curves




Icc = prospective short-circuit symmetrical current (rms value in A)
$I^2t$ = limited thermal stress (in $A^2s$)

# DPX® selectivity table

## ■ Limits of selectivity (three phase circuit at 400 V)

**Upstream MCCBs**

| Downstream MCCBs | In (kA) | DPX 125 (16, 25 and 36 kA) | | | | DPX 250 ER (25 and 36 kA) | | | | DPX 250 DPX-H 250 | | | | DPX 630 DPX-H 630 | | | | DPX 1 250 DPX-H 1 250 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 40 A | 63 A | 100 A | 125 A | 63 A | 100 A | 160 A | 250 A | 63 A | 100 A | 160 A | 250 A | 320 A | 400 A | 500 A | 630 A | 630 A | 800 A |
| **DPX** | **Ist (kA)** | **0·8** | **0·95** | **1·25** | **1·25** | **0·63** | **1** | **1·6** | **2·5** | **0·63** | **1** | **1·6** | **2·5** | **3·2** | **4** | **5** | **6·3** | **6·3** | **8** |
| **DPX-E 125 (16 kA)** | **16 A** | 0·8 | 1 | 1·2 | 1·2 | 1 | 1·6 | 2·5 | 1 | 1·6 | 2·5 | 6 | 6 | 6 | 6 | 8 | 12 | T | T |
| | **25 A** | 0·8 | 1 | 1·2 | 1·2 | 1 | 1·6 | 2·5 | 1 | 1·6 | 2·5 | 6 | 6 | 6 | 6 | 8 | 12 | T | T |
| | **40 A** | | 1 | 1·2 | 1·2 | 1 | 1·6 | 2·5 | 1 | 1·6 | 2·5 | 6 | 6 | 6 | 6 | 8 | 12 | T | T |
| | **63 A** | | | 1·2 | 1·2 | | 1·6 | 2·5 | | 1·6 | 2·5 | 6 | 6 | 6 | 6 | 8 | 12 | T | T |
| | **100 A** | | | | | | 1·6 | 2·5 | | 1·6 | 2·5 | 4 | 4 | 4 | 6 | 8 | 12 | T | T |
| | **125 A** | | | | | | 1·6 | 2·5 | | 1·6 | 2·5 | 4 | 4 | 4 | 6 | 8 | 12 | T | T |
| **DPX 125 (25 kA)** | **25 A** | 0·8 | 1 | 1·2 | 1·2 | 0·63 | 1 | 1·6 | 2·5 | 0·63 | 1 | 1·6 | 2·5 | 6 | 6 | 6 | 8 | 16 | 16 |
| | **40 A** | | 1 | 1·2 | 1·2 | | 1 | 1·6 | 2·5 | | 1 | 1·6 | 2·5 | 6 | 6 | 6 | 8 | 16 | 16 |
| | **63 A** | | | 1·2 | 1·2 | | | 1·6 | 2·5 | | | 1·6 | 2·5 | 6 | 6 | 6 | 8 | 16 | 16 |
| | **100 A** | | | | | | | 1·6 | 2·5 | | | 1·6 | 2·5 | 4 | 4 | 6 | 8 | 16 | 16 |
| | **125 A** | | | | | | | 1·6 | 2·5 | | | 1·6 | 2·5 | 4 | 4 | 6 | 8 | 16 | 16 |
| **DPX 125 (36 kA)** | **16 A** | 0·8 | 1 | 1·2 | 1·2 | 0·63 | 1 | 1·6 | 2·5 | 0·63 | 1 | 1·6 | 2·5 | 6 | 6 | 6 | 8 | 16 | 16 |
| | **25 A** | 0·8 | 1 | 1·2 | 1·2 | | 1 | 1·6 | 2·5 | | 1 | 1·6 | 2·5 | 6 | 6 | 6 | 8 | 16 | 16 |
| | **40 A** | | 1 | 1·2 | 1·2 | | 1 | 1·6 | 2·5 | | 1 | 1·6 | 2·5 | 6 | 6 | 6 | 8 | 16 | 16 |
| | **63 A** | | | 1·2 | 1·2 | | | 1·6 | 2·5 | | | 1·6 | 2·5 | 6 | 6 | 6 | 8 | 16 | 16 |
| | **100 A** | | | | | | | 1·6 | 2·5 | | | 1·6 | 2·5 | 4 | 4 | 6 | 8 | 16 | 16 |
| | **125 A** | | | | | | | 1·6 | 2·5 | | | 1·6 | 2·5 | 4 | 4 | 6 | 8 | 16 | 16 |
| **DPX 250 ER (25 kA)** | **63 A** | | | | | 0·63 | 1 | 1·6 | 2·5 | | 1 | 1·6 | 2·5 | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **100 A** | | | | | | | 1·6 | 2·5 | | | 1·6 | 2·5 | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **160 A** | | | | | | | | 2·5 | | | | 2·5 | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **250 A** | | | | | | | | | | | | | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| **DPX 250 (36 kA)** | **63 A** | | | | | | | | | | 1 | 1·6 | 2·5 | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **100 A** | | | | | | | | | | | 1·6 | 2·5 | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **160 A** | | | | | | | | | | | | 2·5 | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **250 A** | | | | | | | | | | | | | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| **DPX-H 250 (70 kA)** | **63 A** | | | | | | | | | | | | | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **100 A** | | | | | | | | | | | | | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **160 A** | | | | | | | | | | | | | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| | **250 A** | | | | | | | | | | | | | 3·2 | 4 | 5 | 6·3 | 16 | 16 |
| **DPX 630 (36 kA)** | **320 A** | | | | | | | | | | | | | | 4 | 5 | 6·3 | 10 | 10 |
| | **400 A** | | | | | | | | | | | | | | | 5 | 6·3 | 10 | 10 |
| | **500 A** | | | | | | | | | | | | | | | | 6·3 | 10 | 10 |
| | **630 A** | | | | | | | | | | | | | | | | | | 10 |
| **DPX-H 630 (70 kA)** | **320 A** | | | | | | | | | | | | | | 4 | 5 | 6·3 | 10 | 10 |
| | **400 A** | | | | | | | | | | | | | | | 5 | 6·3 | 10 | 10 |
| | **500 A** | | | | | | | | | | | | | | | | 6·3 | 10 | 10 |
| | **630 A** | | | | | | | | | | | | | | | | | | 10 |
| **DPX 1 250 (50 kA)** | **630 A** | | | | | | | | | | | | | | | | | | 8 |
| | **800 A** | | | | | | | | | | | | | | | | | | |
| **DPX-H 1 250 (70 kA)** | **630 A** | | | | | | | | | | | | | | | | | | 8 |
| | **800 A** | | | | | | | | | | | | | | | | | | |

Note : Table contents shown in kA

## ■ Association and co-ordination of MCCBs (in kA)

**In 3 phase networks + N 400/415 V∿ according to BS EN 60947-2**

| | DPX 125 25 kA | DPX 125 36 kA | DPX 250 ER 36 kA | DPX 250 36 kA | DPX-H 250 70 kA | DPX 630 36 kA | DPX-H 630 70 kA | DPX 1 250 50 kA | DPX-H 1 250 70 kA |
|---|---|---|---|---|---|---|---|---|---|
| DPX-E 125 | 25 | 36 | 36 | 36 | 65 | 36 | 65 | 50 | 65 |
| DPX 125(1) | | 36 | 36 | 36 | 65 | 36 | 65 | 50 | 70 |
| DPX 125(2) | | | | | 70 | | 70 | 50 | 70 |
| DPX 250 ER(2) | | | | | 70 | | 70 | 50 | 70 |
| DPX 250 ER(3) | | | | | 70 | | 70 | | 70 |
| DPX 250 | | | | | 70 | | 70 | 50 | 70 |
| DPX-H 250 | | | | | | | | | |
| DPX 630 | | | | | | | 100 | 50 | 70 |
| DPX-H 630 | | | | | | | | 70 | |
| DPX 1250 | | | | | | | | | 70 |
| DPX-H 1250 | | | | | | | | | |

(1) 25 kA Icu (2) 36 kA Icu (3) 50 kA Icu

## ■ Association and co-ordination of MCCBs and MCBs (in kA)

**In 3 phase networks 400 V∿ according to IEC 60947-2**

| MCBs downstream | | MCBs/MCCBs upstream | | | | | | | | | | | | | | | Fuses upstream | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DX-H 10 kA(2) B and C curves | | DPX-E 125 | DPX 125 | DPX 250 ER | | | | DPX-H 250 | | | | DPX-H 630 | | DPX-H 1 250 | gG TYPE | |
| | | 2 to 32 A | 40 to 63 A | 16 to 125 A | 16 to 125 A | 63 A | 100 A | 160 A | 250 A | 63 A | 100 A | 160 A | 250 A | 160 and 400 A | 630 A | 500 to 800 A | 20 to 50 A | 63 to 125 A |
| DX-E 6 kA DX-D D(1) curve | 1 to 20 A | 25 | 12·5 | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 100 | 100 |
| | 25 A | 25 | 12·5 | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 20 | 100 | 100 |
| | 32 A | | 12·5 | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 15 | 100 | 100 |
| | 40 A | | 12·5 | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 20 | 20 | 20 | 15 | 100 | 100 |
| | 50 A | | | 16 | 25 | 25 | 25 | 20 | 20 | 25 | 25 | 20 | 15 | 15 | 15 | 12·5 | | 100 |
| | 63 A | | | 16 | 25 | | 20 | 15 | 15 | 20 | 20 | 15 | 15 | 15 | 15 | 12·5 | | 100 |
| DX-H 10 kA B and C(1) curves | 1 to 16 A | | | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | 100 |
| | 20 A | | | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | 100 |
| | 25 A | | | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 20 | | 100 |
| | 32 A | | | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 15 | 100 | 100 |
| | 40 A | | | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 20 | 20 | 20 | 15 | 100 | 100 |
| | 50 A | | | 16 | 25 | 25 | 25 | 20 | 20 | 25 | 25 | 20 | 15 | 15 | 15 | 12·5 | 100 | 100 |
| | 63 A | | | 16 | 25 | 25 | 20 | 15 | 15 | 20 | 20 | 15 | 15 | 15 | 15 | 12·5 | 100 | 100 |
| | 80 A | | | | 20 | | | 20 | 20 | | 20 | 20 | 20 | 20 | 15 | 12·5 | 100 | 100 |
| | 100 A | | | | 20 | | | 20 | 20 | | | 20 | 20 | 20 | 15 | 12·5 | | 100 |
| | 125 A | | | | | | | 15 | 15 | | | 15 | 15 | 15 | 10 | 10 | | 100 |

(1) The magnetic threshold of the upstream circuit breaker must be higher than the magnetic threshold of the downstream circuit breaker
(2) For DX-H 10 kA MCBs, see p. 79

## ■ Association and co-ordination of MCCBs and MCBs (in kA)

**In 3 phase networks + N 230 / 240 V∿ according to IEC 60947-2**

| MCBs downstream | | MCBs/MCCBs upstream | | | | | | | | | | | | | | Fuses upstream | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DX-H 10 kA B and C curves | | DPX-E 125 | DPX 125 | DPX 250 ER | | | | DPX-H 250 | | | | DPX-H 630 | DPX-H 1 250 | gG TYPE | |
| | | 2 to 32 A | 40 to 63 A | 16 to 125 A | 16 to 125 A | 63 A | 100 A | 160 A | 250 A | 63 A | 100 A | 160 A | 250 A | 250 to 400 A | 500 to 800 A | 20 to 50 A | 63 to 125 A |
| DX-E 6 kA DX-D D(1) curve | 1 to 25 A | 50 | 25 | 22 | 35 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 100 | 100 |
| | 32 & 40 A | | 25 | 22 | 35 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 100 | 100 |
| | 50 A | | | 16 | 25 | 36 | 36 | 36 | 36 | 45 | 45 | 36 | 30 | 30 | 25 | | 100 |
| | 63 A | | | 16 | 25 | | 30 | 30 | 30 | | 45 | 30 | 30 | 30 | 25 | | 100 |
| | 80 A | | | 16 | 25 | | 25 | 25 | 25 | | 25 | 25 | 25 | 25 | 20 | | 100 |
| | 100 A | | | 16 | 25 | | | 25 | 25 | | | 25 | 25 | 25 | 20 | | 100 |
| | 125 A | | | | | | | 25 | 25 | | | 25 | 25 | 25 | 20 | | 100 |
| DX-H 10 kA B and C(1) curves | 1 to 40 A | | | 22 | 35 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 100 | 100 |
| | 50 A | | | 16 | 25 | 36 | 36 | 36 | 36 | 45 | 45 | 36 | 30 | 30 | 25 | | 100 |
| | 63 A | | | 16 | 25 | | 30 | 30 | 30 | | 45 | 30 | 30 | 30 | 25 | | 100 |

(1) The magnetic threshold of the upstream circuit breaker must be higher than the magnetic threshold of the downstream circuit breaker

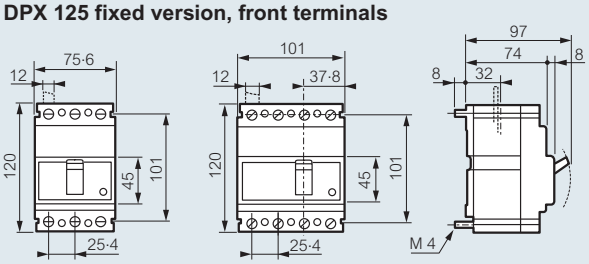
TT or TNS neutral earthing systems : For a 230 / 400 V supply in order to determine the breaking capacity of a 2 P MCB used as L + N (230 V) downstream a 2 P or 4 P circuit breaker use values indicated in the table for 230 / 240 V

**Note :** selectivity table - MCCBs (see p. 75)

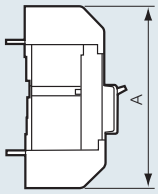
# DPX® 125 and 250 ER

## ■ Dimensions

### DPX 125 fixed version, front terminals

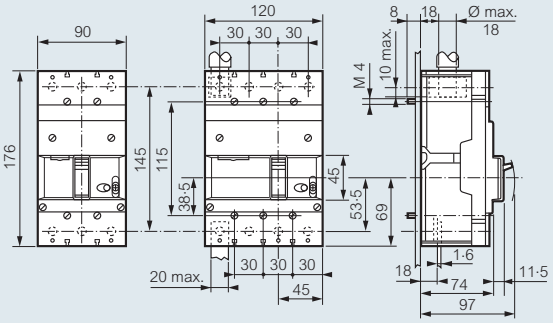



### DPX 125 terminal shields



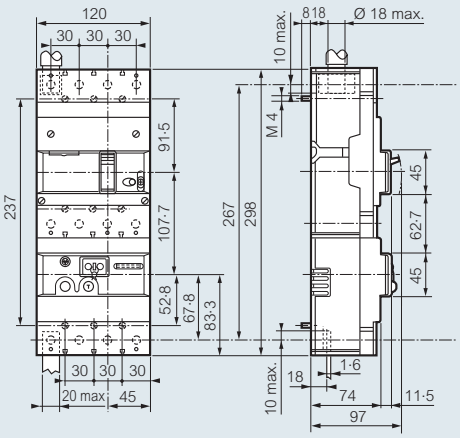

| | A (mm) |
|---|---|
| DPX 125 | 170 |
| DPX 125 + earth leakage module mounted underneath | 260 |

### DPX 250 ER fixed version, front terminals

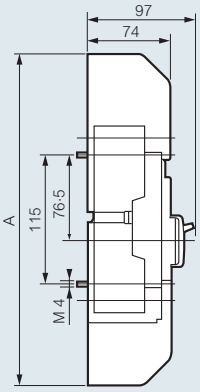



### DPX 250 ER fixed version, with earth leakage module mounted underneath

front terminals




### DPX 250 ER terminal shields

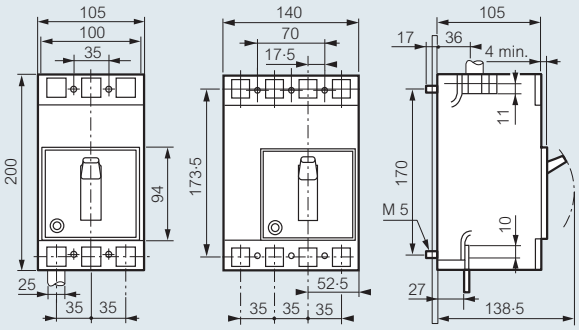



| | A (mm) |
|---|---|
| DPX 250 ER | 296 |
| DPX 250 ER + earth leakage module mounted underneath | 418 |

# DPX® 250

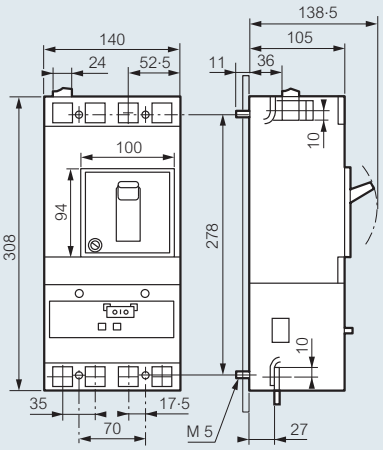
## ■ Dimensions

### DPX 250 fixed version, front terminals

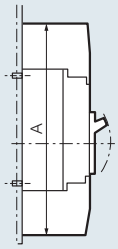



### DPX 250 fixed version, with earth leakage module mounted underneath(1)

front terminals




### DPX 250 terminal shields

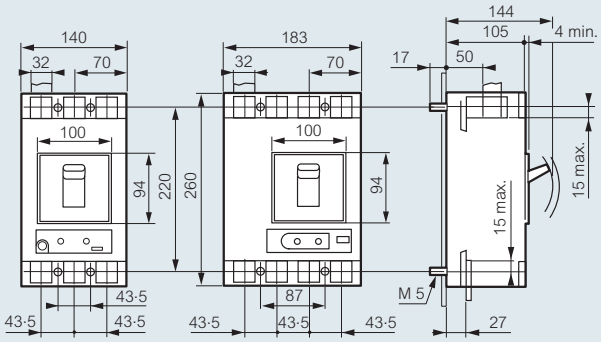



| | A (mm) |
|---|---|
| DPX 250 | 330 |
| DPX 250 + earth leakage module mounted underneath | 438 |

(1) The dimensions of the 3-pole earth leakage modules are the same as the dimensions of the 4-pole earth leakage modules

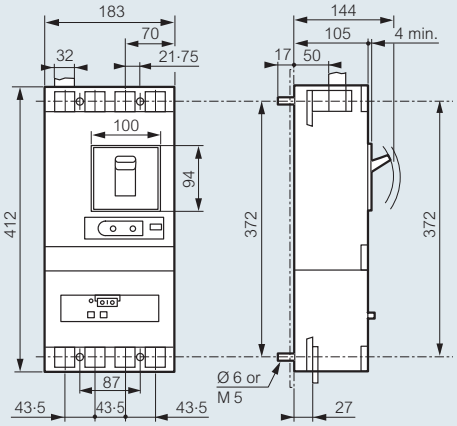
## ■ Dimensions

### DPX 630 fixed version, front terminals

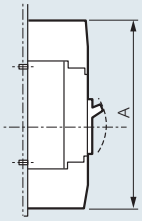



### DPX 630 fixed version, with earth leakage module mounted underneath(1)

**front terminals**




### DPX 630 terminal shields

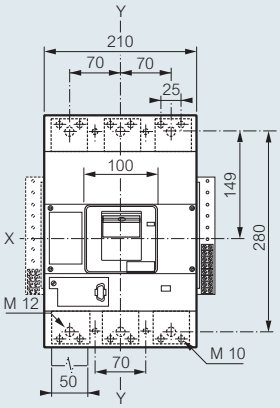


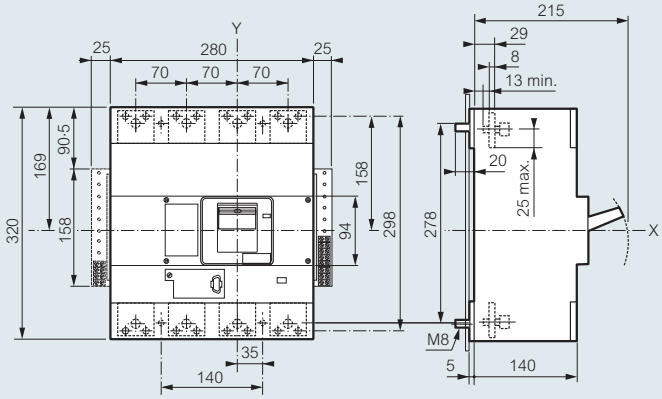

| | A (mm) |
|---|---|
| **DPX 630** | 390 |
| **DPX 630 + earth leakage module mounted underneath** | 542 |

(1) The dimensions of the 3-pole earth leakage modules are the same as the dimensions of the 4-pole earth leakage modules

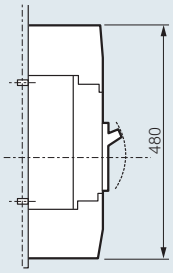
## ■ Dimensions

### DPX 1250 fixed version, front terminals




### DPX 1250 terminal shields



# DX-H MCBs - 10 kA

**thermal-magnetic MCBs up to 125 A**
**type B and C curves**

0068 60

0069 20

0070 00

*Technical information (p. 80-82)*
*Dimensions (p. 88)*

Breaking capacity : 10 kA to BS EN 60898-1
12·5 kA up to 25 kA to BS EN 60947-2 - 400 V∿

| Pack | Cat. Nos. B curve | Cat. Nos. C curve | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|---|
| | | | **Single pole 230/400 V∿** | |
| 1 | 0066 91 | 0068 52 | 1 | 1 |
| 1 | 0066 92 | 0068 53 | 2 | 1 |
| 1 | 0066 93 | 0068 54 | 3 | 1 |
| 1 | 0066 95 | 0068 56 | 6 | 1 |
| 10 | 0066 97 | 0068 58 | 10 | 1 |
| 10 | 0067 00 | 0068 60 | 16 | 1 |
| 1 | 0067 01 | 0068 61 | 20 | 1 |
| 1 | 0067 02 | 0068 62 | 25 | 1 |
| 1 | 0067 03 | 0068 63 | 32 | 1 |
| 1 | 0067 04 | 0068 64 | 40 | 1 |
| 1 | | 0068 65 | 50 | 1 |
| 1 | 0067 06 | 0068 66 | 63 | 1 |
| 1 | | 0063 83 | 80 | 1·5(1) |
| | | | **Double pole 400 V∿** | |
| 1 | 0067 52 | 0069 12 | 1 | 2 |
| 1 | 0067 53 | 0069 13 | 2 | 2 |
| 1 | 0067 54 | 0069 14 | 3 | 2 |
| 1 | 0067 56 | 0069 16 | 6 | 2 |
| 1 | 0067 58 | 0069 18 | 10 | 2 |
| 5 | 0067 60 | | 16 | 2 |
| 1 | | 0069 20 | 16 | 2 |
| 1 | 0067 61 | 0069 21 | 20 | 2 |
| 1 | 0067 62 | 0069 22 | 25 | 2 |
| 1 | 0067 63 | 0069 23 | 32 | 2 |
| 1 | 0067 64 | 0069 24 | 40 | 2 |
| 1 | | 0069 25 | 50 | 2 |
| 1 | 0067 66 | 0069 26 | 63 | 2 |
| 1 | | 0064 75 | 80 | 3(1) |
| 1 | | 0064 76 | 100 | 3(1) |
| 1 | | 0064 77 | 125 | 3(1) |
| | | | **Triple pole 400 V∿** | |
| 1 | 0067 72 | 0069 32 | 1 | 3 |
| 1 | 0067 73 | 0069 33 | 2 | 3 |
| 1 | 0067 74 | 0069 34 | 3 | 3 |
| 1 | 0067 76 | 0069 36 | 6 | 3 |
| 1 | 0067 78 | 0069 38 | 10 | 3 |
| 1 | 0067 80 | 0069 40 | 16 | 3 |
| 1 | 0067 81 | 0069 41 | 20 | 3 |
| 1 | 0067 82 | 0069 42 | 25 | 3 |
| 1 | 0067 83 | 0069 43 | 32 | 3 |
| 1 | 0067 84 | 0069 44 | 40 | 3 |
| 1 | 0067 85 | 0069 45 | 50 | 3 |
| 1 | 0067 86 | 0069 46 | 63 | 3 |
| 1 | | 0064 95 | 80 | 4·5(1) |
| 1 | | 0064 96 | 100 | 4·5(1) |
| 1 | | 0064 97 | 125 | 4·5(1) |
| | | | **Four pole 400 V∿(2)** | |
| 1 | 0068 32 | 0069 92 | 1 | 4 |
| 1 | | 0069 93 | 2 | 4 |
| 1 | | 0069 94 | 3 | 4 |
| 1 | 0068 36 | 0069 96 | 6 | 4 |
| 1 | 0068 38 | 0069 98 | 10 | 4 |
| 1 | 0068 40 | 0070 00 | 16 | 4 |
| 1 | 0068 41 | 0070 01 | 20 | 4 |
| 1 | 0068 42 | 0070 02 | 25 | 4 |
| 1 | 0068 43 | 0070 03 | 32 | 4 |
| 1 | 0068 44 | 0070 04 | 40 | 4 |
| 1 | 0068 45 | 0070 05 | 50 | 4 |
| 1 | 0068 46 | 0070 06 | 63 | 4 |
| 1 | | 0065 70 | 80 | 6(1) |
| 1 | | 0065 71 | 100 | 6(1) |
| 1 | | 0065 72 | 125 | 6(1) |

(1) These MCBs are for standalone use only, not with distribution boards
(2) Suitable for type B flexible boards only

# DX-D MCBs - 10 kA

**thermal-magnetic MCBs up to 125 A**
**type D curve**

0066 33

0066 56

0066 71

*Technical information (p. 80-82)*
*Dimensions (p. 88)*

Breaking capacity : 6 kA to BS EN 60898-1 up to 63 A - 400 V∿
10 kA to BS EN 60898-1 80 A to 125 A
15 kA to BS EN 60947-2 up to 32 A - 400 V∿
10 kA to BS EN 60947-2 40 A to 125 A - 400 V∿
Magnetic adjusted between 10 and 14 In

| Pack | Cat. Nos. D curve | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|
| | | **Single pole 230/400 V∿** | |
| 1 | 0065 75 | 1 | 1 |
| 1 | 0065 76 | 2 | 1 |
| 1 | 0065 77 | 3 | 1 |
| 1 | 0065 78 | 4 | 1 |
| 1 | 0065 79 | 6 | 1 |
| 1 | 0065 81 | 10 | 1 |
| 1 | 0065 83 | 16 | 1 |
| 1 | 0065 84 | 20 | 1 |
| 1 | 0065 85 | 25 | 1 |
| 1 | 0065 86 | 32 | 1 |
| 1 | 0065 87 | 40 | 1 |
| 1 | 0065 88 | 50 | 1 |
| 1 | 0065 89 | 63 | 1 |
| | | **Double pole 400 V∿** | |
| 1 | 0066 25 | 1 | 2 |
| 1 | 0066 26 | 2 | 2 |
| 1 | 0066 27 | 3 | 2 |
| 1 | 0066 28 | 4 | 2 |
| 1 | 0066 29 | 6 | 2 |
| 1 | 0066 31 | 10 | 2 |
| 1 | 0066 33 | 16 | 2 |
| 1 | 0066 34 | 20 | 2 |
| 1 | 0066 35 | 25 | 2 |
| 1 | 0066 36 | 32 | 2 |
| 1 | 0066 37 | 40 | 2 |
| 1 | 0066 38 | 50 | 2 |
| 1 | 0066 39 | 63 | 2 |
| 1 | 0066 40 | 80 | 3(1) |
| 1 | 0066 41 | 100 | 3(1) |
| 1 | 0066 42 | 125 | 3(1) |
| | | **Triple pole 400 V∿** | |
| 1 | 0066 45 | 1 | 3 |
| 1 | 0066 46 | 2 | 3 |
| 1 | 0066 47 | 3 | 3 |
| 1 | 0066 48 | 4 | 3 |
| 1 | 0066 49 | 6 | 3 |
| 1 | 0066 51 | 10 | 3 |
| 1 | 0066 53 | 16 | 3 |
| 1 | 0066 54 | 20 | 3 |
| 1 | 0066 55 | 25 | 3 |
| 1 | 0066 56 | 32 | 3 |
| 1 | 0066 57 | 40 | 3 |
| 1 | 0066 58 | 50 | 3 |
| 1 | 0066 59 | 63 | 3 |
| 1 | 0066 60 | 80 | 4·5(1) |
| 1 | 0066 61 | 100 | 4·5(1) |
| 1 | 0066 62 | 125 | 4·5(1) |
| | | **Four pole 400 V∿(2)** | |
| 1 | 0066 65 | 1 | 4 |
| 1 | 0066 66 | 2 | 4 |
| 1 | 0066 67 | 3 | 4 |
| 1 | 0066 68 | 4 | 4 |
| 1 | 0066 69 | 6 | 4 |
| 1 | 0066 71 | 10 | 4 |
| 1 | 0066 73 | 16 | 4 |
| 1 | 0066 74 | 20 | 4 |
| 1 | 0066 75 | 25 | 4 |
| 1 | 0066 76 | 32 | 4 |
| 1 | 0066 77 | 40 | 4 |
| 1 | 0066 78 | 50 | 4 |
| 1 | 0066 79 | 63 | 4 |
| 1 | 0066 80 | 80 | 6(1) |
| 1 | 0066 81 | 100 | 6(1) |
| 1 | 0066 82 | 125 | 6(1) |

(1) These MCBs are for standalone use only, not with distribution boards
(2) Suitable for type B flexible boards only

## ■ Technical information

- Maximum voltage : 240 V - 415 V∿ ± 10 %
- Maximum voltage : 80 V⎓ per pole
- Insulation voltage : 500 V∿
- Dielectric : 2 500 V∿

### Power dissipated in W per pole at In

| In A | 1 | 2 | 3 | 4 | 6 | 10 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type B | 2·1 | 2·1 | 2·4 | 2·5 | 1·1 | 1·1 | 1·5 | 1·7 | 2·4 | 3·1 | 4 | 4·5 | 5·5 | – | – | – |
| Type C | 2·1 | 2·1 | 2·4 | 2·5 | 1·1 | 1·1 | 1·5 | 1·7 | 2·4 | 3·1 | 4 | 4·5 | 5·5 | 8·8 | 7·8 | 15·6 |
| Type D | 2·1 | 2·1 | 2·4 | 2·5 | 1·1 | 1·1 | 1·5 | 1·7 | 2·4 | 3·1 | 4 | 4·5 | 5·5 | 8·8 | 7·8 | 15·6 |

## ■ Mechanical characteristics

Endurance : 20 000 mechanical switching operations
10 000 on load switching operations at In x cos φ 0·9

| | In ≥ 63 A | In ≥ 80 A |
|---|---|---|
| Connection cross sections (in mm²) | 25 mm² flexible cable<br>35 mm² stranded cable | 50 mm² flexible cable<br>70 mm² stranded cable |
| Applied connection torque | 2·5 Nm | 3 Nm |

### Derating according to ambient temperature (In A)

| In at 30 °C | Ambient temperature 0 °C | 10 °C | 20 °C | 30 °C | 40 °C | 50 °C | 60 °C |
|---|---|---|---|---|---|---|---|
| 1 | 1·1 | 1·07 | 1·03 | 1 | 0·97 | 0·93 | 0·90 |
| 2 | 2·2 | 2·1 | 2·06 | 2 | 1·94 | 1·86 | 1·80 |
| 3 | 3·3 | 3·2 | 3·1 | 3 | 2·9 | 2·8 | 2·6 |
| 4 | 4·4 | 4·2 | 4·1 | 4 | 3·9 | 3·8 | 3·6 |
| 6 | 6·6 | 6·4 | 6·2 | 6 | 5·8 | 5·5 | 5·4 |
| 10 | 11 | 10·7 | 10·3 | 10 | 9·7 | 9·3 | 9·0 |
| 16 | 18 | 17·3 | 16·6 | 16 | 15·4 | 14·7 | 14·1 |
| 20 | 22·4 | 21·6 | 20·8 | 20 | 19·2 | 18·4 | 17·6 |
| 25 | 28·3 | 27·2 | 26 | 25 | 24 | 22·7 | 21·7 |
| 32 | 36·2 | 34·9 | 33·3 | 32 | 30·7 | 29·1 | 27·8 |
| 40 | 46 | 44 | 42 | 40 | 38 | 36 | 34 |
| 50 | 57·5 | 55 | 52·5 | 50 | 47·5 | 45 | 42·5 |
| 63 | 73·1 | 69·9 | 66·1 | 63 | 59·8 | 56·1 | 52·9 |
| 80 | 91 | 88 | 84 | 80 | 76 | 72 | 69 |
| 100 | 114 | 110 | 105 | 100 | 95 | 90 | 86 |
| 125 | 142 | 137 | 131 | 125 | 119 | 113 | 108 |

## ■ Technical information

### Derating according to the number of adjacent MCBs

| Number of adjacent MCBs | from 1 to 3 | from 4 to 6 | from 7 to 9 | over 10 |
|---|---|---|---|---|
| Coefficient | 1 | 0·8 | 0·7 | 0·6 |

## ■ MCB supplementary data (6 kA and 10 kA)

Terminal depth : 14 mm
Terminals protected to IP 20
Maximum terminal torque : 3 Nm
(recommended : 2·5 Nm)

Enclosure material : polyester
self-extinguishing at 960 °C

Average weight per pole : 0·160 kg

Supply : can be supplied from the top or bottom

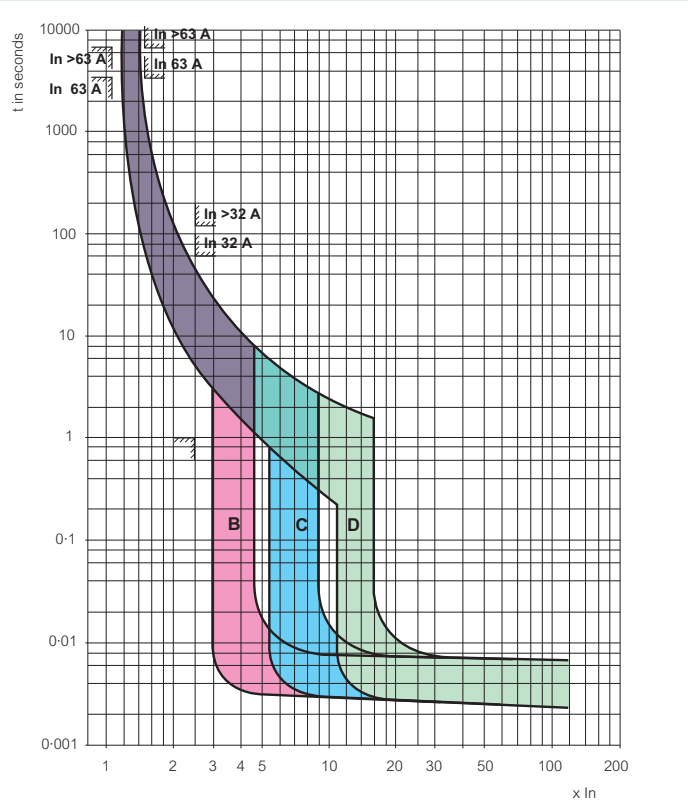
Padlockable in either ON or OFF position

Operation with DC voltage supply : up to a maximum of 80 V DC per pole – for voltages above 80 V DC use multipole devices wired IN SERIES (e.g. two pole 160 V⎓ maximum)

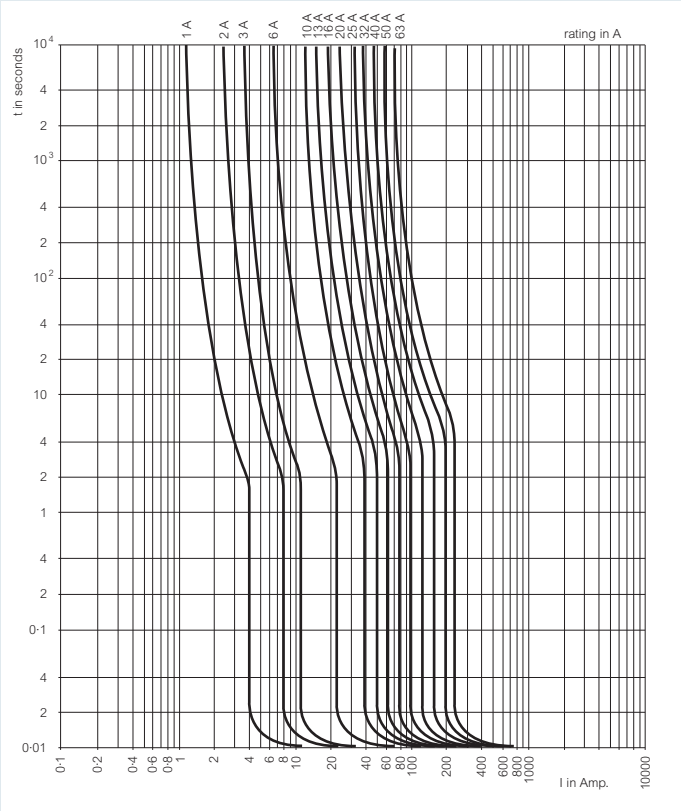
Positive contact position indication in accordance with BS 7671 : 2008 IEE Wiring Regulations, 17th Edition

# DX-H, DX-D MCBs
## tripping and operating curves

### ■ MCB tripping curves

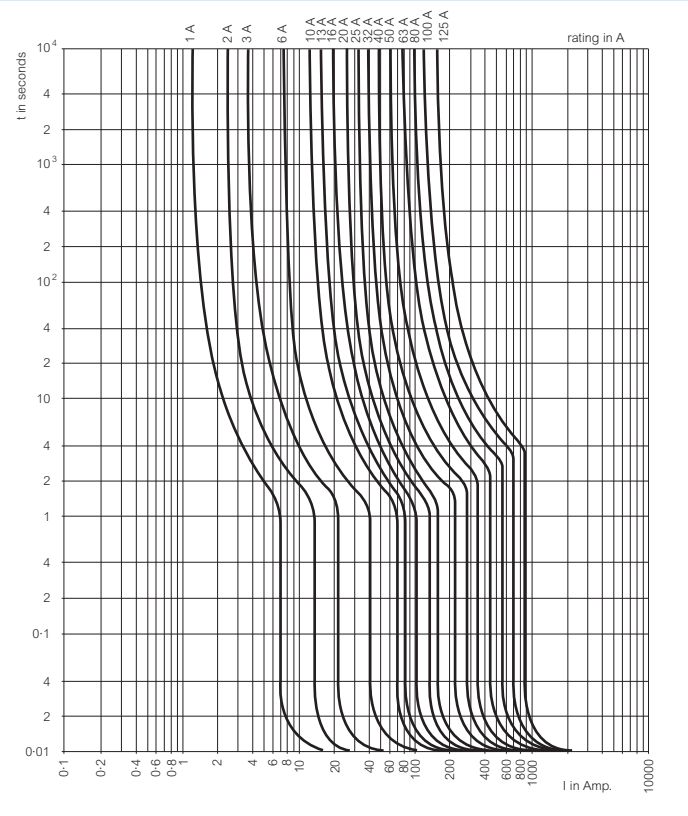



### ■ Operating curves
**DX-H type B from 1 A to 63 A**



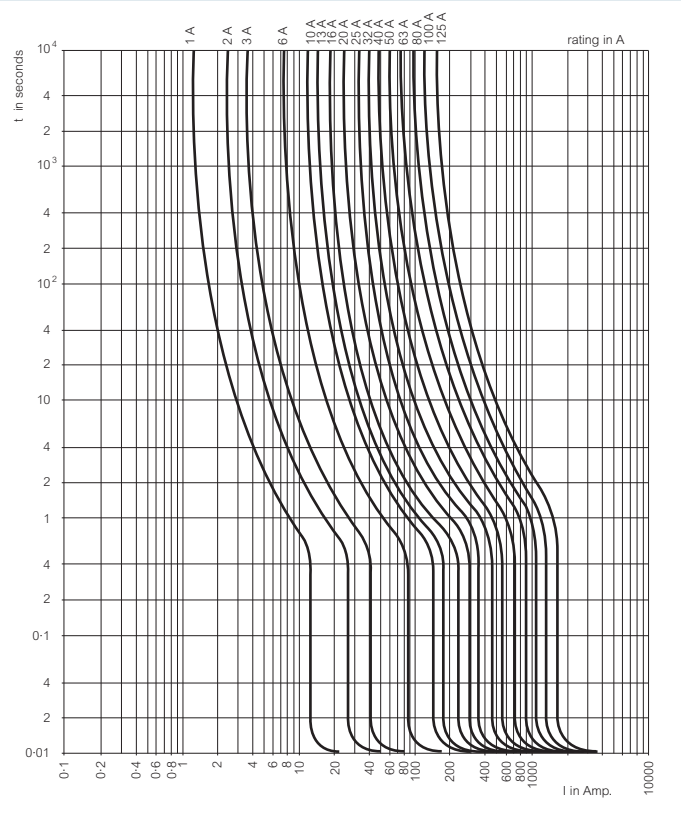

**Standard BS EN 60898 defines type B magnetic curve between 3 and 5 In**

### ■ Operating curves
**DX-H type C from 1 A to 63 A and DX-H from 1 to 125 A**




**Standard BS EN 60898 defines type C magnetic curve between 5 and 10 In**

### ■ Operating curves
**DX-D type D from 1 A to 125 A**




**Standard BS EN 60898 defines type D magnetic curve between 10 and 20 In**

# discrimination/selectivity tables - average values of selectivity limits (A)

## MCBs/MCBs

MCBs upstream

| MCBs downstream | | DX-H C curve | | | | | | | | | | | DX-D D curve | | | | | | | | | | | DX-H B curve | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10 A | 16 A | 20 A | 25 A | 32 A | 40 A | 50 A | 63 A | 80 A | 100 A | 125 A | 10 A | 16 A | 20 A | 25 A | 32 A | 40 A | 50 A | 63 A | 80 A | 100 A | 125 A | 10 A | 16 A | 20 A | 25 A | 32 A | 40 A | 50 A | 63 A |
| DX-H C curve | 1 to 4 A | 75 | 120 | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | 120 | 192 | 240 | 300 | 384 | 480 | 600 | 756 | 800 | T | T | 40 | 64 | 80 | 100 | 128 | 160 | 200 | 252 |
| | 6 A | 75 | 120 | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | 120 | 192 | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | 64 | 80 | 100 | 128 | 160 | 200 | 252 |
| | 10 A | | 120 | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | 192 | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | 100 | 128 | 160 | 200 | 252 |
| | 16 A | | | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | 160 | 200 | 252 |
| | 20 A | | | | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | | | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | 200 | 252 |
| | 25 A | | | | | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | | | | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | | 252 |
| | 32 A | | | | | | 300 | 375 | 472 | 480 | 600 | 750 | | | | | | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | | |
| | 40 A | | | | | | | 375 | 472 | 480 | 600 | 750 | | | | | | | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | | |
| | 50 A | | | | | | | | 472 | 480 | 600 | 750 | | | | | | | | 756 | 800 | 1 200 | 1 500 | | | | | | | | |
| | 63 A | | | | | | | | | 480 | 600 | 750 | | | | | | | | | 800 | 1 200 | 1 500 | | | | | | | | |
| | 80 A | | | | | | | | | | 600 | 750 | | | | | | | | | | 1 200 | 1 500 | | | | | | | | |
| | 100 A | | | | | | | | | | | 750 | | | | | | | | | | | 1 500 | | | | | | | | |
| | 125 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DX-D D curve | 1 to 4 A | 75 | 120 | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | 120 | 192 | 240 | 300 | 384 | 480 | 600 | 756 | 800 | T | T | 40 | 64 | 80 | 100 | 128 | 160 | 200 | 252 |
| | 6 A | | 120 | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | 120 | 192 | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | 100 | 128 | 160 | 200 | 252 |
| | 10 A | | | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | 192 | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | 160 | 200 | 252 |
| | 16 A | | | | | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | | 252 |
| | 20 A | | | | | | 300 | 375 | 472 | 480 | 600 | 750 | | | | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | | |
| | 25 A | | | | | | | 375 | 472 | 480 | 600 | 750 | | | | | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | | |
| | 32 A | | | | | | | | 472 | 480 | 600 | 750 | | | | | | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | | |
| | 40 A | | | | | | | | | 480 | 600 | 750 | | | | | | | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | | |
| | 50 A | | | | | | | | | | 600 | 750 | | | | | | | | 756 | 800 | 1 200 | 1 500 | | | | | | | | |
| | 63 A | | | | | | | | | | 600 | 750 | | | | | | | | | 800 | 1 200 | 1 500 | | | | | | | | |
| | 80 A | | | | | | | | | | | | | | | | | | | | | 1 200 | 1 500 | | | | | | | | |
| | 100 A | | | | | | | | | | | | | | | | | | | | | | 1 500 | | | | | | | | |
| | 125 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DX-H B curve | 1 to 6 A | 75 | 120 | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | 120 | 192 | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | 40 | 64 | 80 | 100 | 128 | 160 | 200 | 252 |
| | 10 A | | 120 | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | 192 | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | 64 | 80 | 100 | 128 | 160 | 200 | 252 |
| | 16 A | | | 150 | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | | 240 | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | 80 | 100 | 128 | 160 | 200 | 252 |
| | 20 A | | | | 187 | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | | | 300 | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | 100 | 128 | 160 | 200 | 252 |
| | 25 A | | | | | 240 | 300 | 375 | 472 | 480 | 600 | 750 | | | | | 384 | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | 128 | 160 | 200 | 252 |
| | 32 A | | | | | | 300 | 375 | 472 | 480 | 600 | 750 | | | | | | 480 | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | 160 | 200 | 252 |
| | 40 A | | | | | | | 375 | 472 | 480 | 600 | 750 | | | | | | | 600 | 756 | 800 | 1 200 | 1 500 | | | | | | | 200 | 252 |
| | 50 A | | | | | | | | 472 | 480 | 600 | 750 | | | | | | | | 756 | 800 | 1 200 | 1 500 | | | | | | | | 252 |
| | 63 A | | | | | | | | | 480 | 600 | 750 | | | | | | | | | 800 | 1 200 | 1 500 | | | | | | | | |

Upstream fuse

| MCBs downstream | | gG type | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 32 A | 40 A | 50 A | 63 A | 80 A | 100 A | 125 A | 160 A |
| DX-H B and C curves | 0·5 to 6 A | 1 600 | 1 900 | 2 500 | 4 000 | 4 600 | 11 000 | 25 000 | T |
| | 8 A | 1 600 | 1 900 | 2 500 | 4 000 | 4 600 | 11 000 | 25 000 | T |
| | 10 A | | 1 600 | 2 200 | 3 200 | 3 600 | 7 000 | 11 000 | 20 000 |
| | 16 A | | 1 400 | 1 800 | 2 600 | 3 000 | 5 600 | 8 000 | 15 000 |
| | 20 A | | 1 200 | 1 500 | 2 200 | 2 500 | 4 600 | 6 300 | 10 000 |
| | 25 A | | | 1 300 | 2 000 | 2 200 | 4 100 | 5 500 | 8 000 |
| | 32 A | | | 1 200 | 1 700 | 1 900 | 3 500 | 4 500 | 7 000 |
| | 40 A | | | | | 1 700 | 3 000 | 4 000 | 5 000 |
| | 50 A | | | | | 1 600 | 2 600 | 3 500 | 4 500 |
| | 63 A | | | | | | 2 400 | 3 300 | 4 500 |
| | 80 A | | | | | | 3 000 | 6 000 | 8 000 |
| | 100 A | | | | | | | 4 000 | 5 000 |
| | 125 A | | | | | | | | 4 000 |

T : total selectivity up to MCB breaking capacity according to IEC 60947-2

# DX™ RCDs
## residual current devices - types AC and A

0089 12

0089 18

0090 13

0073 50

0073 54

*Dimensions (p. 88)*

Conform to BS EN 61008-1

- AC type - Standard applications

AC type RCDs detect AC residual currents. In the majority of cases (standard applications), they are used for AC current detection at 50/60 Hz

- A type - Specific applications : dedicated lines

In addition to the characteristics of AC type RCDs, A type RCDs also detect DC residual currents. A type are used whenever fault currents are not sinusoidal. A type are particularly suitable for specific applications (dedicated lines) or circuits that may produce DC fault currents, eg variable speed drives with frequency inverters, etc.

Locking possible using support for padlock Cat. No. 0044 42 (p. 90)

## Test voltage

| | RCD 2 P | RCD 4 P |
|---|---|---|
| **Min.** | 135 V (10/30/300 mA) | 195 V (30 mA)<br>230 V (100 mA)<br>215 V (300 mA)<br>295 V (500 mA) |
| **Max.** | 250 V | 440 V |

## Double pole - 230 V∿

| Pack | Cat. Nos. Type AC | Cat. Nos. Type A | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|---|
| | | | **10 mA** | |
| 1 | 0089 06 | 0090 53 | 16 | 2 |
| | | | **30 mA** | |
| 1 | 0089 09 | 0090 56 | 25 | 2 |
| 1 | 0089 10 | 0090 57 | 40 | 2 |
| 1 | 0089 11 | 0090 58 | 63 | 2 |
| 1 | 0089 12 | 0090 59 | 80 | 2 |
| 1 | 6027 10 | | 100 | 2 |
| | | | **100 mA** | |
| 1 | 0089 15 | | 25 | 2 |
| 1 | 0089 16 | | 40 | 2 |
| 1 | 0089 17 | | 63 | 2 |
| 1 | 0089 18 | | 80 | 2 |
| | | | **100 mA discriminating** | |
| 1 | 6027 11 | | 100 | 2 |
| | | | **300 mA** | |
| 1 | 0089 27 | 0090 74 | 25 | 2 |
| 1 | 0089 28 | 0090 75 | 40 | 2 |
| 1 | 0089 29 | 0090 76 | 63 | 2 |
| 1 | 0089 30 | 0090 77 | 80 | 2 |
| | | | **300 mA discriminating** | |
| 1 | 0089 35 | 0090 82 | 63 | 2 |

## Four pole - 400 V∿ neutral on right

| Pack | Cat. Nos. Type AC | Cat. Nos. Type A | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|---|
| | | | **30 mA** | |
| 1 | 0089 93 | 0091 40 | 25 | 4 |
| 1 | 0089 94 | 0091 41 | 40 | 4 |
| 1 | 0089 95 | 0091 42 | 63 | 4 |
| 1 | 0089 96 | 0091 43 | 80 | 4 |
| | | | **100 mA** | |
| 1 | 0089 99 | 0091 46 | 25 | 4 |
| 1 | 0090 00 | 0091 47 | 40 | 4 |
| 1 | 0090 01 | 0091 48 | 63 | 4 |
| 1 | 0090 02 | 0091 49 | 80 | 4 |
| 1 | | 0091 50 | 100 | 4 |
| | | | **300 mA** | |
| 1 | 0090 11 | 0091 58 | 25 | 4 |
| 1 | 0090 12 | 0091 59 | 40 | 4 |
| 1 | 0090 13 | 0091 60 | 63 | 4 |
| 1 | 0090 14 | 0091 61 | 80 | 4 |
| 1 | | 0091 62 | 100 | 4 |

## Four pole - 400 V∿ neutral on right (continued)

| Pack | Cat. Nos. Type AC | Cat. Nos. Type A | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|---|
| | | | **500 mA** | |
| 1 | 0090 23 | | 25 | 4 |
| 1 | 0090 24 | 0091 71 | 40 | 4 |
| 1 | 0090 25 | 0091 72 | 63 | 4 |
| 1 | 0090 26 | 0091 73 | 80 | 4 |
| | | | **300 mA discriminating** | |
| 1 | 0090 18 | 0091 65 | 40 | 4 |
| 1 | 0090 19 | 0091 66 | 63 | 4 |

## Four pole - 400 V∿ neutral on left

| Pack | Cat. Nos. Type AC | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|
| | | **30 mA** | |
| 1 | 0086 96 | 80 | 4 |
| | | **300 mA** | |
| 1 | 0087 14 | 80 | 4 |

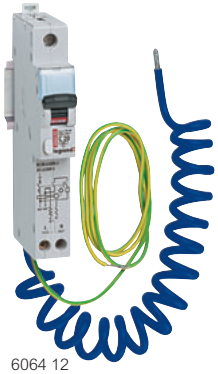
## Auxiliaries for MCBs and RCDs

Clip on the left hand side of the MCB (maximum 3)
Allow insertion of the supply busbar at the top
Auxiliaries common to DX-H MCBs and DX RCDs

| Pack | Cat. Nos. | **Signalling auxiliaries** | Number of 17·5 mm modules |
|---|---|---|---|
| 1 | 0073 50 | Auxiliary changeover switch, 6 A - 250 V∿<br>Indicates the position of the contacts | 0·5 |
| 1 | 0073 51 | Fault signalling changeover switch, 6 A - 250 V∿<br>Indicates tripping of the MCB at a fault | 0·5 |
| 1 | 0073 53 | Auxiliary changeover switch, 6 A - 250 V which can be modified to a fault signalling switch | 0·5 |
| 1 | 0073 54 | Auxiliary changeover switch, 6 A - 250 V + fault signalling switch, can be modified to 2 auxiliary changeover switches | 1 |

# DX™ RCBOs - 10 kA and auxiliaries

**up to 63 A - type AC**
**type B and C curves**


6064 12

0078 86

0079 19

0079 80

*Dimensions (p. 88)*

Conform to BS EN 61009-1
Breaking capacity : 10 kA to BS EN 61009-1
10 kA to BS EN 60947-2 (except for single pole + neutral - 6 kA)

## Single pole + neutral - 230 V∿

Single pole with solid unswitched neutral
Suitable for type B standard or flexible boards and type A boards

| Pack | Cat. Nos. Type AC C curve | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|
| | | **30 mA** | |
| 1 | 6064 10 | 10 | 1 |
| 1 | 6064 11 | 16 | 1 |
| 1 | 6064 12 | 20 | 1 |
| 1 | 6064 13 | 25 | 1 |
| 1 | 6064 14 | 32 | 1 |
| 1 | 6064 15 | 45 | 1 |

## Single pole + neutral - 230 V∿

Single pole with switched neutral
Suitable for type B flexible boards only
Neutral on right

| Pack | Cat. Nos. Type AC B curve | C curve | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|---|
| | | | **10 mA** | |
| 1 | | 0078 79 | 16 | 2 |
| | | | **30 mA** | |
| 1 | | 0078 81 | 3 | 2 |
| 1 | 0077 77 | 0078 83 | 6 | 2 |
| 1 | 0077 78 | 0078 84 | 10 | 2 |
| 1 | 0077 80 | 0078 86 | 16 | 2 |
| 1 | 0077 81 | 0078 87 | 20 | 2 |
| 1 | | 0078 88 | 25 | 2 |
| 1 | 0077 83 | 0078 89 | 32 | 2 |
| 1 | 0077 84 | 0078 90 | 40 | 2 |
| | | | **300 mA** | |
| 1 | | 0078 94 | 6 | 2 |
| 1 | | 0078 95 | 10 | 2 |
| 1 | | 0078 97 | 16 | 2 |
| 1 | | 0078 98 | 20 | 2 |
| 1 | | 0078 99 | 25 | 2 |
| 1 | | 0079 00 | 32 | 2 |
| 1 | | 0079 01 | 40 | 2 |

## Double pole - 230/400 V∿

Suitable for type B flexible boards only

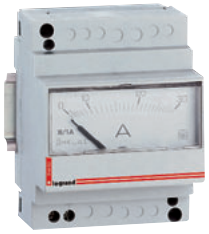
| Pack | Cat. Nos. Type AC C curve | Nominal rating (A) | Number of 17·5 mm modules | Breaking capacity IEC 60947-2 (kA) 400 V∿ | 230 V∿ |
|---|---|---|---|---|---|
| | | **10 mA** | | | |
| 1 | 0077 45 | 10 | 4 | 10 | 25 |
| 1 | 0077 46 | 16 | 4 | 10 | 25 |
| 1 | 0077 47 | 20 | 4 | 10 | 25 |
| | | **30 mA** | | | |
| 1 | 0079 11 | 10 | 4 | 10 | 25 |
| 1 | 0079 19 | 16 | 4 | 10 | 25 |
| 1 | 0079 20 | 20 | 4 | 10 | 25 |
| 1 | 0079 21 | 25 | 4 | 10 | 25 |
| 1 | 0079 22 | 32 | 4 | 10 | 25 |
| 1 | 0079 29 | 40 | 4 | 10 | 25 |
| 1 | 0079 30 | 50 | 4 | 10 | 25 |
| 1 | 0079 31 | 63 | 4 | 10 | 25 |

## Four pole - 400 V∿

Suitable for type B flexible boards only

| Pack | Cat. Nos. Type AC C curve | Nominal rating (A) | Number of 17·5 mm modules | Breaking capacity IEC 60947-2 (kA) 400 V∿ | 230 V∿ |
|---|---|---|---|---|---|
| | | **30 mA** | | | |
| 1 | 0079 62 | 10 | 4 | 10 | 10 |
| 1 | 0079 64 | 16 | 4 | 10 | 10 |
| 1 | 0079 65 | 20 | 4 | 10 | 10 |
| 1 | 0079 66 | 25 | 4 | 10 | 10 |
| 1 | 0079 67 | 32 | 4 | 10 | 10 |
| 1 | 0080 13 | 40 | 7 | 10 | 25 |
| 1 | 0080 14 | 50 | 7 | 10 | 25 |
| 1 | 0080 15 | 63 | 7 | 10 | 25 |
| | | **300 mA** | | | |
| 1 | 0079 75 | 10 | 4 | 10 | 10 |
| 1 | 0079 77 | 16 | 4 | 10 | 10 |
| 1 | 0079 78 | 20 | 4 | 10 | 10 |
| 1 | 0079 79 | 25 | 4 | 10 | 10 |
| 1 | 0079 80 | 32 | 4 | 10 | 10 |
| 1 | 0080 31 | 40 | 7 | 10 | 25 |
| 1 | 0080 32 | 50 | 7 | 10 | 25 |
| 1 | 0080 33 | 63 | 7 | 10 | 25 |

# metering


0046 02

0046 00

0046 64

0046 52

*Technical information (p. 87)*
*Dimensions (p. 88)*

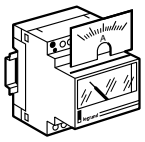
## Analogue ammeters

Measure the intensity of the current circulating in an electrical circuit in Amperes (A)

| Pack | Cat. Nos. | | Number of modules |
|---|---|---|---|
| | | **Direct connection** | |
| 1 | 0046 02 | To alternating or direct current<br>Range : 0-30 A | 4 |
| | | **Connected using a 5 A current transformer (CT)** | |
| 1 | 0046 00 | The meter is fitted with an appropriate dial for the intensity of the current being measured | 4 |

**Measuring dials for ammeter Cat. No. 0046 00**

| | | |
|---|---|---|
| 2 | 0046 10 | 0-50 A |
| 2 | 0046 13 | 0-100 A |
| 2 | 0046 15 | 0-200 A |
| 2 | 0046 17 | 0-300 A |
| 2 | 0046 18 | 0-400 A |
| 2 | 0046 20 | 0-600 A |
| 2 | 0046 21 | 0-800 A |
| 2 | 0046 22 | 0-1 000 A |
| 2 | 0046 24 | 0-1 500 A |
| 2 | 0046 25 | 0-2 000 A |



## Analogue voltmeter

For measuring the AC or DC voltage (V) in an electrical circuit

| Pack | Cat. Nos. | | Number of modules |
|---|---|---|---|
| 1 | 0046 60 | Range 0 - 500 V | 4 |

## Current transformers (CT)

IP20
Used with ammeters or electricity meters
Supply a current of 0 to 5 A to the secondary which is proportional to the primary current
Fix to plate or rail EN 60715
Secondary joining with terminals for lugs, cage terminals or screws

| Pack | Cat. Nos. | Transformation ratio | Power in VA |
|---|---|---|---|
| | | **Single phase CT** | |
| | | For cable Ø 21 mm and 16 x 12·5 mm bar | |
| 1 | 0046 31 | 50/5 | 1·25 |
| 1 | 0046 34 | 100/5 | 2·5 |
| 1 | 0046 36 | 200/5 | 5·5 |
| | | For cable Ø 23 mm and 20·5 x 12·5 and 30 x 10·5 mm bar | |
| 1 | 0047 75 | 300/5 | 11 |
| | | For cable Ø 35 mm and 40·5 x 10·5 mm bar | |
| 1 | 0046 38 | 400/5 | 12 |
| | | For 32 x 65 mm bar | |
| 1 | 0047 76 | 600/5 | 15 |
| 1 | 0047 77 | 800/5 | 12 |
| 1 | 0047 78 | 1 000/5 | 20 |
| | | For 38 x 127 mm bar | |
| 1 | 0046 45 | 1 500/5 | 15 |
| 1 | 0046 46 | 2 000/5 | 20 |

## Digital ammeter / voltmeter

| Pack | Cat. Nos. | | Number of modules |
|---|---|---|---|
| 1 | 0046 63 | Display from 0 to 999 A, kA, V<br>Measures the current or the voltage of the circuit depending on the connection made<br>- ammeter mode : connected via a 0 - 5 A current transformer (CT).<br>Reading range adjusted according to CT used (100, 400, 600 or 1 000 A)<br>Voltage : 230 V∿ - 50/60 Hz<br>Scale : 0 - 4 000 V<br>- voltmeter mode : measures the AC or DC voltage of an electrical circuit<br>Scale : 0 - 500 V | 4 |

## Digital frequency meter

For measuring the frequency of a 100 to 500 V∿ electrical circuit in Hertz (Hz)

| Pack | Cat. Nos. | | Number of modules |
|---|---|---|---|
| 1 | 0046 64 | Green LED 3 digit display – 10-100 Hz display | 4 |

## Selector switches

For manual switching of circuits being measured

| Pack | Cat. Nos. | | Number of modules |
|---|---|---|---|
| | | **4-position ammeter selector switch** | |
| 1 | 0046 50 | For measuring currents in a 3 phase circuit using only one ammeter with a current transformer | 3 |
| | | **4-position voltmeter selector switch** | |
| 1 | 0046 52 | For measuring phase-to-phase voltages of a 3 phase circuit without neutral using only one voltmeter | 3 |
| | | **7-position voltmeter selector switch** | |
| 1 | 0046 53 | For measuring phase-to-phase voltages and phase-neutral voltages of a 3 phase circuit with neutral | 3 |

# metering
(continued)

0046 72

0046 74

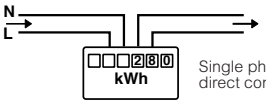
0046 94

0046 91

*Technical information (p. 87)*
*Dimensions (p. 88)*

## Single phase meters

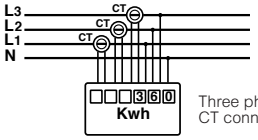
| Pack | Cat. Nos. | | Number of 17·5 mm modules |
|---|---|---|---|
| | | Direct connection | |
| | | Power supply : 230 V∿ - 50/60 Hz | |
| | | **Without pulse transmitter** | |
| 1 | 0046 81 | Up to 32 A<br>Display : LCD screen<br>6 digits including 1 decimal place<br>1 unit = 0·1 kWh<br>Partial counting with reset | 2 |
| 1 | 0046 72 | Up to 63 A<br>Display : LCD screen<br>5 digits, 1 unit = 1 kWh<br>Partial counting with reset | 2 |



Single phase direct connection

## Three phase meters

| Pack | Cat. Nos. | | Number of 17·5 mm modules |
|---|---|---|---|
| | | Power supply : 400 V∿ - 50/60 Hz (3 phase + N)<br>Display : LCD screen<br>5 digits, 1 unit = 1 kWh<br>With pulse transmitter to feed back remote electrical energy consumption measurements via volt-free contact | |
| | | **Direct connection** | |
| 1 | 0046 73 | Up to 63 A per phase<br>Partial counting with reset<br>1 x 200 ms pulse every 10 kWh | 4 |
| | | **Connection via a 0-5 A current transformer (CT)** | |
| 1 | 0046 74 | Current transformation ratio : 50/5 to 4 000/5<br>1 x 200 ms pulse every 10 kWh | 4 |
| | | 10/x 200 ms pulses per kWh (x = rating of CT) | |



Three phase CT connection

## Totalising hour counters

Used to count the operating hours of a machine or an electrical device to determine the exact operating duration and thus perform preventative maintenance as necessary

**Counter with digital display**

Capacity : 5 digits + 2 decimals (1 unit = 1 hour)

Precision : 1/100 hour
Consumption : 0·2 VA

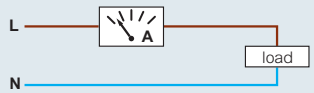
| Pack | Cat. Nos. | | Number of 17.5 mm modules |
|---|---|---|---|
| 1 | 0046 94 | 230 V∿ - 50 Hz | 2 |
| 1 | 0046 91 | 24 V∿ - 50 Hz | 2 |

## ■ Ammeters

### Technical characteristics

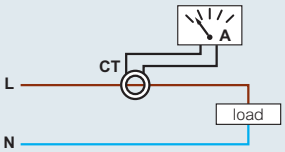
| Type of measurement | Analogue | | Digital |
|---|---|---|---|
| | Ferromagnetic | | Electronic via shunt |
| Frequency | 50 to 60 Hz | | 50 to 60 Hz |
| Precision | 1·5 % | | ± 1 % to ± 1 digit |
| Operating temperature | – 10 °C to + 40 °C | | – 10 °C to + 40 °C |
| Storage temperature | – 20 °C to + 80 °C | | – 20 °C to + 70 °C |
| Consumption : • voltage circuit • measurement circuit | – 1·1 VA | | 4·5 VA 1 VA |
| Connection size | Direct | Via CT | 2 x 2·5 mm² |
| | 6 mm² | 4 mm² | |
| Conformity to standards | EN 61010-1 | | EN 61010-1 |

Ammeter connected directly

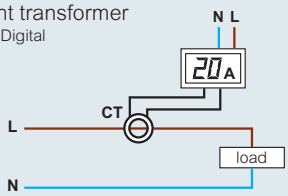



Ammeter connected via current transformer

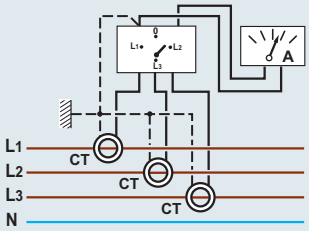
Analogue

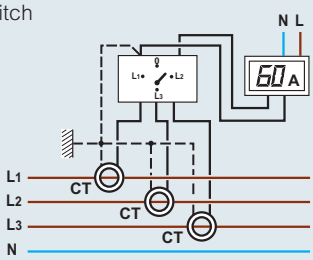



Digital



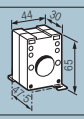
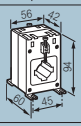
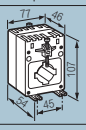
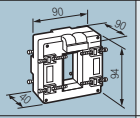
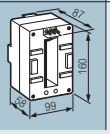

3 phase using ammeter selector switch




## ■ Current transformers (CT)

### Dimensions

| | | Opening for cable Max. Ø (mm) | Opening for bar w. X th. (mm) | Fixing centres on plate (mm) |
|---|---|---|---|---|
| CT 50/5<br>100/5<br>200/5 |  | Ø 21 | 16 x 12·5 | on rail EN 60715 |
| CT 300/5 |  | Ø 23 | 20·5 x 12·5<br>25·5 x 11·5<br>30·5 x 10·5 | 55 x 45 |
| CT 400/5 |  | Ø 35 | 40·5 x 10·5 | 54 x 45 |
| CT 600/5<br>800/5<br>1 000/5 |  | – | 32 x 65 | fix on bar |
| CT 1 500/5<br>2 000/5 |  | – | 38 x 127 | fix on bar |

| Technical characteristics | |
|---|---|
| Degree of protection | IP 20 |
| Using frequency | 50/60 Hz |

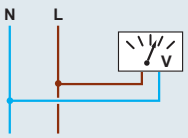
## ■ Voltmeters

### Technical characteristics

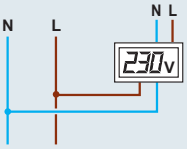
| Type of measurement | Analogue | Digital |
|---|---|---|
| | Ferromagnetic | Electronic integration |
| Frequency | 50 to 60 Hz | 50 to 60 Hz |
| Precision | 1·5 % | ± 1 % to ± 1 digit |
| Operating temperature | – 10 °C to + 40 °C | – 10 °C to + 40 °C |
| Storage temperature | – 20 °C to + 80 °C | – 20 °C to + 70 °C |
| Consumption | 3 VA | 4·5 VA |
| Connection size | 2 x 2·5 mm² | 2 x 2·5 mm² |
| Conformity to standards | EN 61010-1 | EN 61010-1 |

Voltmeter

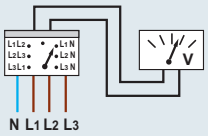
Analogue

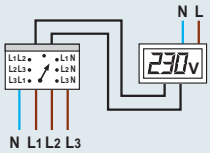



Digital

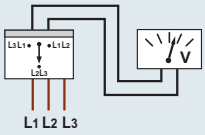


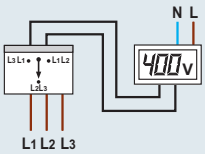

3 phase using 7-position voltmeter selector switch for phase-to-phase and phase-neutral measurement




3 phase using 4-position voltmeter selector switch for phase-to-phase measurement



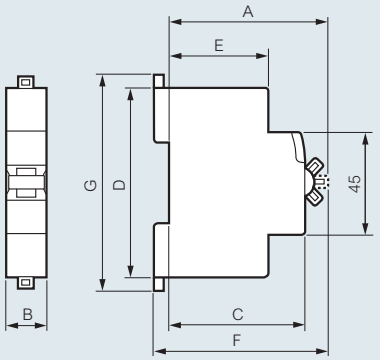

## ■ Frequency meter

### Technical characteristics

| Type of measurement | Quartz electronic |
|---|---|
| Precision | ± 0·2 % to ± 1 digit |
| Operating temperature | – 10 °C to + 40 °C |
| Storage temperature | – 20 °C to + 70 °C |
| Consumption | 4·5 VA |
| Connection size | 2 x 2·5 mm² |
| Conformity to standards | EN 61010-1 |

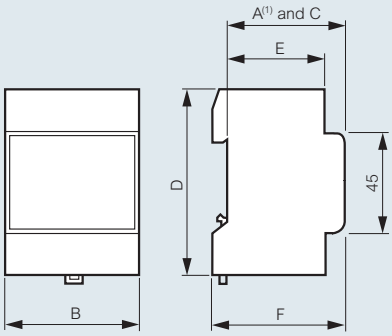
# modular DIN rail equipment
## dimensions

### Dimensions




| Description | Dimension (mm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | | | | | C | D | E | F | G |
| | | 1-pole | 1-pole + N | 2-pole | 3-pole | 4-pole | | | | | |
| DX-H, DX-D up to 63 A | 70 | 17·7 | – | 35·6 | 53·4 | 71·2 | 60 | 83 | 44 | 76 | 94 |
| DX-D, DX-H from 80 to 125 A | 70 | 26·7 | – | 53·4 | 80·1 | 106·8 | 60 | 83 | 44 | 76 | 89 |
| RCBOs | 70 | – | 35·6 | 71·2 | – | 124·6 | 60 | 83 | 44 | 76 | 94 |
| 4-pole RCBOs with 4 modules | 70 | – | – | – | – | 71·2 | 60 | 83 | 44 | 76 | 94 |
| RCDs 2-pole | 70 | – | – | 35·6 | – | – | 60 | 83 | 44 | 76 | 94 |
| 4-pole | 71·5 | – | – | – | – | 71·2 | 60 | 83 | 44 | 77·5 | 94 |
| Fuse carriers | 67 | 17·7 | 17·7 | 35·6 | 53·4 | 71·2 | 60 | 83 | 44 | 73 | 94 |

### Dimensions




| Description | Dimension (mm) | | | | | |
|---|---|---|---|---|---|---|
| | A(1) | B | C | D | E | F |
| Ammeter - Voltmeters | 60 | 70 | 60 | 83 | 44 | 66 |
| Selector switches | 69 | 52·5 | 60 | 74 | 44·5 | 74 |
| Digital frequency meter Cat. No. 0046 64 | 63 | 70 | 63 | 89 | 42 | 69 |
| Three phase meters Cat. No. 0046 73/74 | 60 | 72 | 60 | 81 | 44 | 66 |
| Single phase meters Cat. No. 0046 81/72 | 60 | 35·5 | 60 | 89 | 44 | 66 |

(1) Maximum projection

# modular fuse carriers
## for industrial cylindrical cartridge fuses

0058 04

0058 28

0216 05

*Dimensions (opposite)*
*Accessories (p. 90)*

For HRC cylindrical fuses (see p. 91)

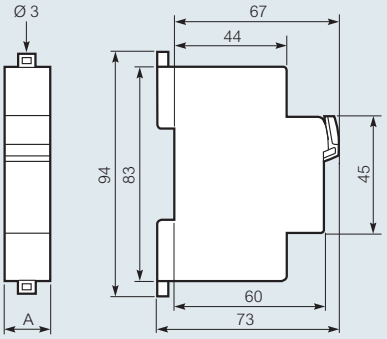
| Pack | Cat. Nos. | Modular carriers for HRC type aM and gG fuses | | |
|---|---|---|---|---|
| | | Conform to IEC 60269-2/2·1, isolation to IEC 60947-3<br>Fix to DIN rail ⎍ EN 60715<br>Equipped with label holder<br>Padlockable using locking accessory Cat. No. 0057 99, p. 90<br>Shielded terminals max. capacity 2 x 10 mm²<br>Double insulated ⧈ Class II | | |
| | | Fuse size (mm) | Voltage ∿ (Volts) | No. of 17·5 mm modules |
| | | **Single pole** | | |
| 10 | 0058 04 | Disconnectable neutral | 500 | 1 |
| 10 | 0058 06 | 8·5 x 31·5 | 400 | 1 |
| 10 | 0058 08 | 10 x 38 | 500 | 1 |
| | | **Single pole + Neutral** | | |
| 10 | 0058 16 | 8·5 x 31·5 | 400 | 1 |
| 10 | 0058 18 | 10 x 38 | 500 | 1 |
| | | **Double pole** | | |
| 5 | 0058 28 | 10 x 38 | 500 | 2 |
| | | **Triple pole** | | |
| 3 | 0058 38 | 10 x 38 | 500 | 3 |
| | | **Triple pole + Neutral** | | |
| 2 | 0058 48 | 10 x 38 | 500 | 4 |

| Pack | Cat. Nos. | SP fuse carriers | | |
|---|---|---|---|---|
| | | Conform to IEC 60269-2 and BS EN 60269-2<br>Bureau Veritas approved<br>Height under front plate : 44 mm<br>Fix to DIN rail ⎍ EN 60715 or with screws | | |
| | | **SP 51 for HRC type aM and gG fuses 14 x 51** | | |
| | | | Connection | No. of 17·5 mm modules |
| 5 | 0215 01 | Single pole | 1 x 35 mm² or 2 x 16 mm² | 1·5 |
| 1 | 0215 03 | Double pole | | 3 |
| 1 | 0215 04 | Triple pole | | 4·5 |
| 1 | 0215 05 | Triple pole + disconnectable neutral | | 6 |
| | | **SP 58 for HRC type aM and gG fuses 22 x 58** | | |
| | | | Connection | No. of 17·5 mm modules |
| 3 | 0216 00 | Disconnectable neutral | 1 x 50 mm² or 2 x 25 mm² | 2 |
| 3 | 0216 01 | Single pole | | 2 |
| 1 | 0216 04 | Triple pole | | 6 |
| 1 | 0216 05 | Triple pole + disconnectable neutral | | 8 |

modular fuse carriers
for industrial cylindrical cartridge fuses

## ■ Modular fuse carriers

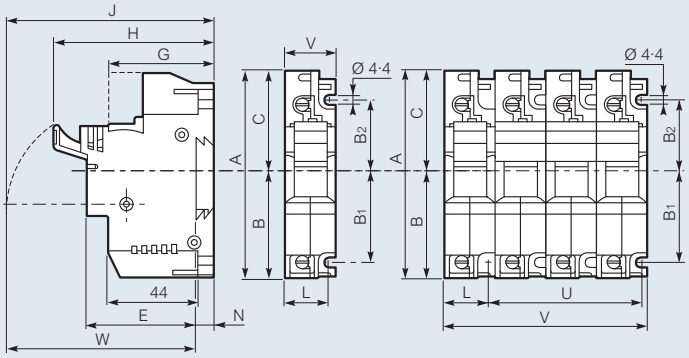
Conform to IEC 60269-2/2·1, isolation to IEC 60947-3
Icc : 20 kA with 8·5 x 31·5 fuse
100 kA with 10 x 38 fuse
Operating temperature : –5 °C to +40 °C
Mechanical resistance : IPxx 3




| In mm | A |
|---|---|
| Single pole | 17·7 |
| Single pole + N | 17·7 |
| Double pole | 35·5 |
| Triple pole | 53·4 |
| Triple pole + N | 71·2 |

## ■ SP 51 and SP 58 fuse carriers

Conform to IEC 60269-2 and BS EN 60269-2
Bureau Veritas approved




| In mm | A | B | $B_1$ | $B_2$ | C | E | G | H 1 P | H multi. | J 1 P |
|---|---|---|---|---|---|---|---|---|---|---|
| SP 51 | 106 | 54·5 | 45 | 35 | 51·5 | 55 | 53 | 81 | 84 | 96 |
| SP 58 | 140 | 74 | 65 | 45 | 66 | 59 | 53 | 87 | 90 | 111 |

| In mm | J multi. | L | N | U 2 P | U 3 P | U 4 P | V 1 P | V 2 P | V 3 P | V 4 P | W 1 P | W multi. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SP 51 | 99 | 20·7 | 9 | 26·5 | 53 | 79·5 | 26·5 | 53 | 79·5 | 106 | 87 | 90 |
| SP 58 | 114 | 27 | 9 | 36 | 72 | 108 | 36 | 72 | 108 | 144 | 101 | 109 |

## ■ Choice of equipment

| Type | Rated current | Maximum cartridge rating 400 V∿ | | 500 V∿ | | 690 V∿ | |
|---|---|---|---|---|---|---|---|
| | | gG | aM | gG | aM | gG | aM |
| SP 51 | 50 A | 50 | 50 | 50 | 40 | 25 | 25 |
| SP 58 | 100 A (125 A in 400 V) | 125 | 125 | 100 | 100 | 50 | 50 |

## ■ Protection index : IP 2x - IP 2x C - under front plate

## ■ Equipment derating

Justified under more severe conditions of use :

- Ambient temperature over 35 °C : derate fuse by one rating per 10 °C (UTE C 20-051)
- Side-by-side equipment in simultaneous function

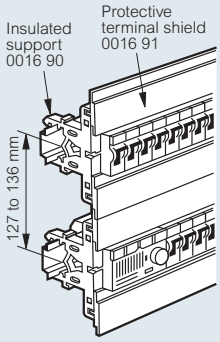
| | |
|---|---|
| 2 or 3 devices | 0·9 x In |
| 4 or 5 devices | 0·8 x In |
| 6, 7, 8 or 9 devices | 0·7 x In |
| ≥ 10 devices | 0·6 x In |

This coefficient is to be applied on the nominal rating of the base (IEC 60439-1)

- Continuous operation : it may be necessary to upgrade the bases by one size

## ■ Modular protective terminal shield mounting

(see p. 90)



# modular fuse carrier and device accessories

0044 40

0049 05

0049 26

0016 91

0016 90

| Pack | Cat. Nos. | Modular fuse carrier accessory |
|---|---|---|
| 3 | 0057 99 | Padlock support suitable for Ø 5 mm padlocks |

## Modular device accessories

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Spacing elements** |
| 10 | 0044 40 | For heat reduction - 0·5 module |
| 5 | 0044 41 | For heat reduction - 1 module |
| | | **Locking device** |
| 2 | 0044 42 | Attachment for Ø 5 mm and Ø 6 mm padlocks for DX-H and DX-D |
| | | **Padlock** |
| 3 | 0044 43 | Ø 5 mm |
| | | **Entry terminals** |
| 20 | 0049 05 | Accepts conductors 4 – 25 mm² max for single pole busbars only IP 2x |
| 20 | 0049 06 | Accepts conductors 6 – 35 mm² max |
| | | **Supply busbars** |
| 20 | 0049 26 | For 13 single pole units(1) Reversible blue/black |
| 10 | 0049 37 | For 57 single pole units(1) Reversible blue/black |
| 5 | 0049 38 | For 6 double pole units(2)(3) |
| 10 | 0049 39 | For 28 double pole units(2)(3) |
| 5 | 0049 42 | For 4 triple pole units(2)(3) |
| 10 | 0049 43 | For 19 triple pole units(2)(3) |
| 3 | 0049 44 | For 3 four pole units(2)(3) |
| | | **Insulation shroud** |
| 20 | 0049 88 | For non-utilised busbar prongs |
| | | **Self-adhesive label holder** |
| 10 | 0049 96 | Width : 16 mm Width available for marking : 12 mm Length 430 mm (24 modules) |
| | | **Grey blanking plate RAL 7035** |
| 10 | 0016 65 | 18 module, blanking strip |

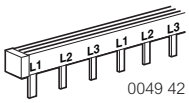
0044 41

0044 42

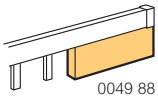
0044 43

0049 06

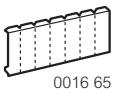
0049 26



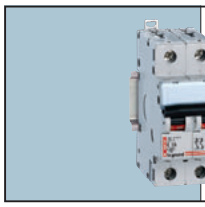
0049 42


0049 88

0049 96

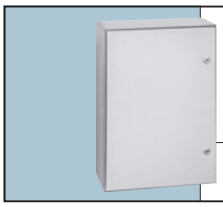

0016 65

| Pack | Cat. Nos. | Modular device accessories (continued) |
|---|---|---|
| | | **Protective terminal shield** |
| 5 | 0016 91 | Light grey Ensures the protection of wiring and terminals in modular mechanisms fitted in enclosures (Atlantic or Marina) Width 45 mm, Length 1 m Clips on to support 0016 90 (below) |
| | | **Insulated support** |
| 10 | 0016 90 | For protective terminal shield Clips on to rail EN 60715 |



**For DX MCBs**

see p. 79



**For enclosures**

see p. 14-23

(1) 16 mm² section rated at 80 A with central feed
(2) 10 mm² section rated at 63 A with central feed
(3) With insulated ends

# cylindrical cartridge fuses
## HRC

0102 63

0123 04

0123 12

0143 10

0153 96

*Dimensions (p. 95)*

### Miniature type 5 x 20

Type F (fast acting) fuse
Ceramic body
Conform to IEC 60127-2
For use with transformers (see p. 106),
Viking 3 terminals (see p. 132) etc.

| Pack | Cat. Nos. | Rating (Amps) | Voltage ∿ (Volts) | Breaking capacity (Amps) |
|---|---|---|---|---|
| 10 | 0102 02 | 0·2 | | |
| 10 | 0102 05 | 0·5 | | |
| 10 | 0102 06 | 0·63 | | |
| 10 | 0102 10 | 1 | | |
| 10 | 0102 12 | 1·25 | | |
| 10 | 0102 16 | 1·6 | | |
| 10 | 0102 20 | 2 | 250 | 1 500 |
| 10 | 0102 25 | 2·5 | | |
| 10 | 0102 30 | 3·15 | | |
| 10 | 0102 50 | 5 | | |
| 10 | 0102 63 | 6·3 | | |
| 10 | 0102 96[1] | 10 | 250 | 500 |

### Type gG

Conform to BS EN 60269-1, IEC 60269-1
Bureau Veritas approved

| Pack | Cat. Nos. | Rating (Amps) | Voltage ∿ (Volts) | Breaking capacity (Amps) |
|---|---|---|---|---|
| | Without indicator | **8 x 32** | | |
| 10 | 0123 01 | 1 | | |
| 10 | 0123 02 | 2 | | |
| 10 | 0123 04 | 4 | | |
| 10 | 0123 06 | 6 | | |
| 10 | 0123 08 | 8 | 400 | 20 000 |
| 10 | 0123 10 | 10 | | |
| 10 | 0123 12 | 12 | | |
| 10 | 0123 16 | 16 | | |

### Type gG industrial

HRC (high rupturing capacity)
Conform to BS EN 60269-1 and 2 (BS 88)
IEC 60269-1, 2 and 2-1
Bureau Veritas approved

| Pack | Cat. Nos. | Rating (Amps) | Voltage ∿ (Volts) | Breaking capacity (Amps) |
|---|---|---|---|---|
| | Without indicator | **10 x 38** | | |
| 10 | 0133 94 | 0·5 | | |
| 10 | 0133 01 | 1 | | |
| 10 | 0133 02 | 2 | | |
| 10 | 0133 04 | 4 | | |
| 10 | 0133 06 | 6 | 500 | 100 000 |
| 10 | 0133 08 | 8 | | |
| 10 | 0133 10 | 10 | | |
| 10 | 0133 12 | 12 | | |
| 10 | 0133 16 | 16 | | |
| 10 | 0133 20 | 20 | | |
| 10 | 0133 25 | 25 | | |
| | Without striker | **14 x 51** | | |
| 10 | 0143 02 | 2 | | |
| 10 | 0143 04 | 4 | | |
| 10 | 0143 06 | 6 | | |
| 10 | 0143 10 | 10 | | |
| 10 | 0143 16 | 16 | 500 | 100 000 |
| 10 | 0143 20 | 20 | | |
| 10 | 0143 25 | 25 | | |
| 10 | 0143 32 | 32 | | |
| 10 | 0143 40 | 40 | | |
| 10 | 0143 50 | 50 | | |
| | Without striker | **22 x 58** | | |
| 10 | 0153 10 | 10 | | |
| 10 | 0153 16 | 16 | | |
| 10 | 0153 20 | 20 | | |
| 10 | 0153 25 | 25 | 500 | 100 000 |
| 10 | 0153 32 | 32 | | |
| 10 | 0153 40 | 40 | | |
| 10 | 0153 50 | 50 | | |
| 10 | 0153 63 | 63 | | |
| 10 | 0153 80 | 80 | | |
| 10 | 0153 96 | 100 | | |
| 10 | 0153 97 | 125 | 400 | |

### Neutral links

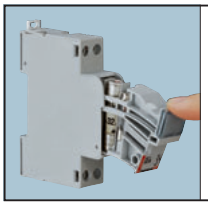
| | | |
|---|---|---|
| 10 | 0123 00 | 8 x 32 |
| 10 | 0133 00 | 10 x 38 |
| 10 | 0143 00 | 14 x 51 |
| 10 | 0153 00 | 22 x 58 |

**Note :** Numbers refer to physical size of fuse i.e. 10 x 38 means Ø 10 mm x 38 mm length

**Fuses with strikers are available on special request in specific ratings**
**Minimum pack quantities apply**

**For other ratings and types**

**Contact us on +44 (0) 845 605 4333**



**With a high breaking capacity to suit industrial applications**

(1) Overrating not described by standards

# cylindrical cartridge fuses
## HRC (continued)

0120 04

0130 08

0140 12

0150 50

0123 00

0143 00

*Dimensions (p. 95)*

### Cylindrical type aM (motor rated)

Conform to BS EN 60269-1 (BS 88)
IEC 60269-1
Bureau Veritas approved

| Pack | Cat. Nos. | Rating (Amps) | Voltage ∿ (Volts) | Breaking capacity (Amps) |
|---|---|---|---|---|
| | Without indicator | **8 x 32** | | |
| 10 | 0120 02 | 2 | | |
| 10 | 0120 04 | 4 | 400 | 20 000 |
| 10 | 0120 06 | 6 | | |
| 10 | 0120 10 | 10 | | |

HRC (high rupturing capacity)
Conform to BS EN 60269-1 and
IEC 60269-1, 2 and 2-1
Bureau Veritas approved

| Pack | Cat. Nos. | Rating (Amps) | Voltage ∿ (Volts) | Breaking capacity (Amps) |
|---|---|---|---|---|
| | Without indicator | **10 x 38 HRC** | | |
| 10 | 0130 95 | 0·5 | | |
| 10 | 0130 01 | 1 | | |
| 10 | 0130 02 | 2 | | |
| 10 | 0130 04 | 4 | | |
| 10 | 0130 06 | 6 | 500 | 100 000 |
| 10 | 0130 08 | 8 | | |
| 10 | 0130 10 | 10 | | |
| 10 | 0130 12 | 12 | | |
| 10 | 0130 16 | 16 | | |
| 10 | 0130 20[1] | 20 | 400 | |
| 10 | 0130 25[1] | 25 | 400 | |
| | Without striker | **14 x 51 HRC** | | |
| 10 | 0140 04 | 4 | | |
| 10 | 0140 06 | 6 | | |
| 10 | 0140 10 | 10 | | |
| 10 | 0140 12 | 12 | 500 | 100 000 |
| 10 | 0140 16 | 16 | | |
| 10 | 0140 20 | 20 | | |
| 10 | 0140 25 | 25 | | |
| 10 | 0140 32 | 32 | | |
| 10 | 0140 40 | 40 | | |
| 10 | 0140 45 | 45 | 400 | |
| 10 | 0140 50 | 50 | 400 | |

### Cylindrical type aM (motor rated) (continued)

HRC (high rupturing capacity)
Conform to BS EN 60269-1 (BS 88)
IEC 60269-1, 2 and 2-1
Bureau Veritas approved

| Pack | Cat. Nos. | Rating (Amps) | Voltage ∿ (Volts) | Breaking capacity (Amps) |
|---|---|---|---|---|
| | Without striker | **22 x 58 HRC** | | |
| 10 | 0150 32 | 32 | 500 | 100 000 |
| 10 | 0150 40 | 40 | | |
| 10 | 0150 50 | 50 | | |
| 10 | 0150 63 | 63 | | |
| 10 | 0150 80 | 80 | | |
| 10 | 0150 96 | 100 | | |
| 10 | 0150 97 | 125 | 400 | |

### Neutral links

| | | |
|---|---|---|
| 10 | 0123 00 | 8 x 32 |
| 10 | 0133 00 | 10 x 38 |
| 10 | 0143 00 | 14 x 51 |
| 10 | 0153 00 | 22 x 58 |

**Note :** Numbers refer to physical size of fuse i.e. 10 x 38 means Ø 10 mm x 38 mm length

(1) Overrating not described by standards

**For other ratings and types**

**Contact us on +44 (0) 845 605 4333**

# HRC blade type cartridge fuses
## gG/aM type

0163 35

0168 50

0165 55

0168 04

*Dimensions (p. 95)*

### Type gG (IEC)/gL (VDE)

HRC (high rupturing capacity)
Conform to BS EN 60269-1 and 2,
IEC 60269-1,2 and 2-1, VDE 0636-21
Bureau Veritas approved
Fully insulated end plate and handle lugs

| Pack | Cat. Nos. With indicator | Rating (Amps) | Voltage ∿ (Volts) | Breaking capacity (Amps) |
|---|---|---|---|---|
| | | **Size 00** | | |
| 10 | 0163 18 | 25 | 500 | 120 000 |
| 10 | 0163 20 | 32 | | |
| 10 | 0163 25 | 40 | | |
| 10 | 0163 30 | 50 | | |
| 10 | 0163 35 | 63 | | |
| 10 | 0163 40 | 80 | | |
| 10 | 0163 45 | 100 | | |
| 10 | 0163 50 | 125 | | |
| 10 | 0163 55 | 160 | | |
| | | **Size 0** | | |
| 3 | 0168 45 | 100 | 500 | 120 000 |
| 3 | 0168 50 | 125 | | |
| 3 | 0168 55 | 160 | | |
| 3 | 0168 60[1] | 200 | | |
| | | **Size 1** | | |
| 3 | 0173 50 | 125 | 500 | 120 000 |
| 3 | 0173 55 | 160 | | |
| 3 | 0173 60 | 200 | | |
| 3 | 0173 65 | 250 | | |
| | | **Size 2** | | |
| 3 | 0178 60 | 200 | 500 | 120 000 |
| 3 | 0178 65 | 250 | | |
| 3 | 0178 70 | 315 | | |
| 3 | 0178 75 | 400 | | |

### Type aM (motor rated)

HRC (high rupturing capacity)
Conform to BS EN 60269-1 and 2,
IEC 60269-1,2 and 2-1, VDE 0636-21
Bureau Veritas approved
Fully insulated end plate and handle lugs

| Pack | Cat. Nos. With indicator | Rating (Amps) | Voltage ∿ (Volts) | Breaking capacity (Amps) |
|---|---|---|---|---|
| | | **Size 00** | | |
| 3 | 0160 25 | 40 | | |
| 3 | 0160 30 | 50 | | |
| 3 | 0160 35 | 63 | | |
| 3 | 0160 40 | 80 | | |
| 3 | 0160 45 | 100 | | |
| 3 | 0160 50 | 125 | 400 | |
| | | **Size 0** | | |
| 3 | 0165 35 | 63 | | |
| 3 | 0165 40 | 80 | | |
| 3 | 0165 45 | 100 | 500 | 120 000 |
| 3 | 0165 50 | 125 | | |
| 3 | 0165 55 | 160 | | |
| | | **Size 1** | | |
| 3 | 0170 50 | 125 | | |
| 3 | 0170 55 | 160 | 500 | 120 000 |
| 3 | 0170 60 | 200 | | |
| 3 | 0170 65 | 250 | | |
| | | **Size 2** | | |
| 3 | 0175 60 | 200 | 500 | 120 000 |
| 3 | 0175 65 | 250 | | |
| 3 | 0175 70 | 315 | | |

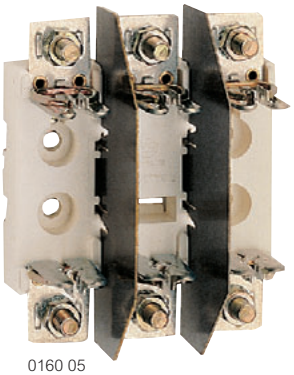
### Neutral blades

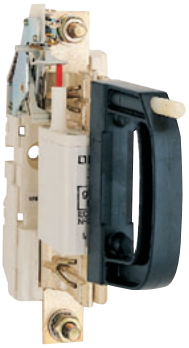
| | | |
|---|---|---|
| 1 | 0168 04 | Size 0 |
| 1 | 0173 04 | Size 1 |
| 1 | 0178 04 | Size 2 |
| 1 | 0181 04 | Size 3 |

(1) Overrating not described by standards

# blade type cartridge fuse accessories

0160 00


0160 05


0175 02 + cartridge fuse + handle 0199 02

0199 16

Detail 0199 22

*Dimensions (p. 95)*

## Bases for blade type cartridge fuses

Conform to BS EN 60269-1 and 2, IEC 60269-1,2 and 2-1, VDE 0636-21
Bureau Veritas approved

Triple pole bases supplied with 2 dividers
Contact points are sprung
Bases with 10 A – 250 V∿ micro-switch have a "cartridge present" signalling device for fuses with standardised striker

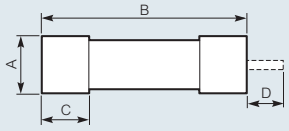
| Pack | Cat. Nos. Single pole | Cat. Nos. Triple pole | Bases | Mounting | Connection |
|---|---|---|---|---|---|
| | | | **Size 00 – 100 A** | | |
| 3 | 0160 00 | | bare | screw | M8 |
| 1 | | 0160 04 | bare | screw | |
| 3 | 0160 01 | | bare | ⊔ rail | |
| 1 | | 0160 05 | bare | ⊔ rail | |
| | | | **Size 00 – 160 A** | | |
| 3 | 0162 00 | | bare | screw | M8 |
| 1 | | 0162 04 | bare | screw | M8 |
| | | | **Size 0 – 160 A** | | |
| 3 | 0165 00 | | bare | screw or ⊔ rail | M8 |
| 1 | | 0165 03 | bare | | |
| 3 | 0165 02 | | with micro-switch | | |
| | | | **Size 1 – 250 A** | | |
| 3 | 0170 00 | | bare | screw or ⊔ rail | M10 |
| 1 | | 0170 03 | bare | | |
| 1 | 0170 02 | | with micro-switch | | |
| | | | **Size 2 – 400 A** | | |
| 3 | 0175 00 | | bare | screw or ⊔ rail | M10 |
| 1 | | 0175 03 | bare | | |
| 1 | 0175 02 | | with micro-switch | | |

## Accessories for blade type cartridge fuses

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Handle** |
| 5 | 0199 02 | Removable handle for all sizes |
| | | **Separation dividers** |
| 10 | 0199 09 | Size 00 (for Cat. Nos. 0160 00/01 and Cat. No. 0162 00) |
| 10 | 0199 15 | Size 0 |
| 10 | 0199 16 | Size 1 |
| 10 | 0199 17 | Size 2 |
| | | **Terminal shields** |
| | | For enhanced protection of blade type cartridge fuse bases |
| 10 | 0199 20 | Size 00 |
| 10 | 0199 21 | Size 0 |
| 10 | 0199 22 | Size 1 |
| 10 | 0199 23 | Size 2 |

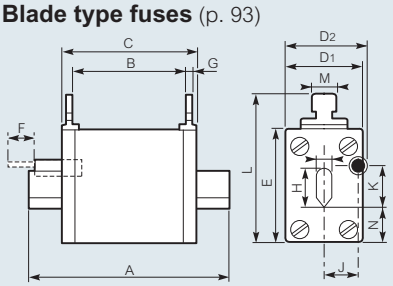
# cartridge fuses
## dimensions

### ■ Cylindrical fuses (p. 91-92)




| Size | A | B | C | D |
|---|---|---|---|---|
| 8 x 32 (mm) | 8·5 | 31·5 | 6·3 | – |
| 10 x 38 (mm) | 10·3 | 38 | 10 | – |
| 14 x 51 (mm) | 14·3 | 51 | 13 | 7·5 |
| 22 x 58 (mm) | 22·2 | 58 | 16 | 7·5 |

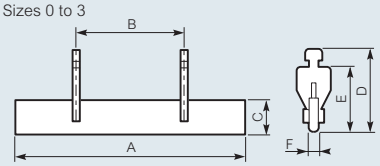
### ■ Blade type fuses (p. 93)




| Size | 00 | 0 | 1 | 2 |
|---|---|---|---|---|
| A (mm) | 78 | 125 | 135 | 150 |
| B (mm) | 44 | 62 | 64 | 64 |
| C (mm) | 52 | 67 | 74 | 74 |
| $D_1$ (mm) | 30 | 36 | 47 | 50 |
| $D_2$ (mm) | – | 39 | 47 | 50 |
| E (mm) | 46 | 46 | 52 | 60 |
| F (mm) | – | 14 | 14 | 14 |
| G (mm) | 2·5 | 2·5 | 3 | 3 |
| H (mm) | 15 | 15 | 21 | 28 |
| I (mm) | 6 | 6 | 6 | 6 |
| J (mm) | – | 14·5 | 16 | 19 |
| K (mm) | – | 14·5 | 14·5 | 14·5 |
| L (mm) | 59 | 59 | 64 | 72 |
| M (mm) | 10 | 10 | 10 | 10 |
| N (mm) | 14·5 | 14·5 | 14·5 | 14·5 |

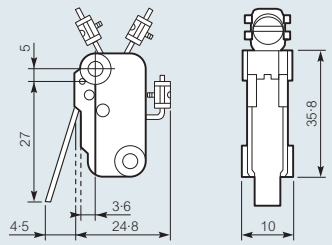
### ■ Neutral blades (p. 93)

Sizes 0 to 3



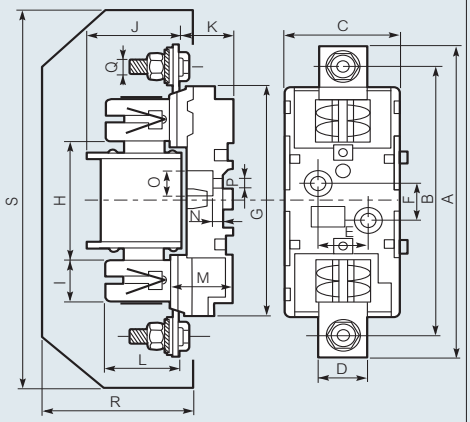

| Size | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| A (mm) | 125 | 135 | 150 | 150 |
| B (mm) | 65 | 65 | 65 | 65 |
| C (mm) | 15 | 20 | 26 | 38 |
| D (mm) | 45 | 50 | 58 | 66·5 |
| E (mm) | 35 | 40 | 48 | 56·5 |
| F (mm) | 6 | 6 | 6 | 6 |

### ■ Micro-switch 10 A – 250 V∿




### ■ Bases for blade type fuses (p. 94)

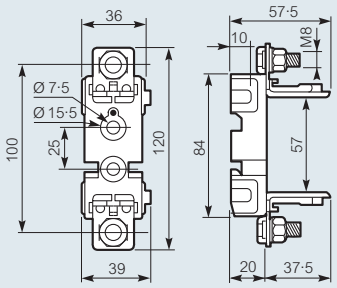
**Bare**



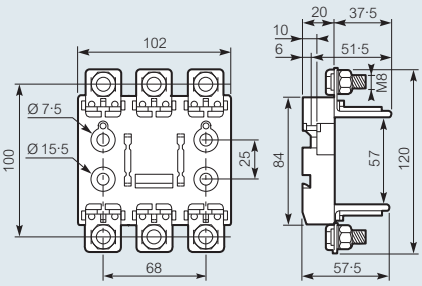

| Size | 00 | 0 | 1 | 2 |
|---|---|---|---|---|
| A (mm) | 120 | 171 | 200 | 225 |
| B (mm) | 100 | 150 | 175 | 200 |
| C (mm) | 36 | 47 | 59 | 67 |
| D (mm) | 24 | 20 | 25 | 30 |
| E (mm) | – | – | 30 | 30 |
| F (mm) | 25 | 25 | 25 | 25 |
| G (mm) | 120 | 125 | 150 | 170 |
| H (mm) | 57 | 75 | 80 | 80 |
| I (mm) | 11 | 23 | 28 | 32 |
| J (mm) | 63 | 68 | 68 | 83 |
| K (mm) | 20 | 24 | 35 | 35 |
| L (mm) | 35 | 43 | 46 | 58 |
| M (mm) | 22·5 | 28 | 38 | 39 |
| N (mm) | 12 | 11·5 | 13·5 | 13·5 |
| O (mm) | 15 | 14 | 20 | 20 |
| P (mm) | 7 | 7·5 | 10·5 | 10·5 |
| Q (mm) | 8 | 8 | 10 | 10 |
| R (mm) | 84 | 96 | 107 | 121 |
| S (mm) | 125 | 180 | 224 | 240 |

### ■ Size 00 fixing on rail ⊔ (p. 94)

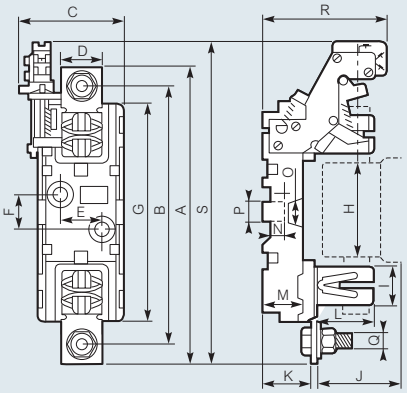
**Single pole**




**Triple pole**

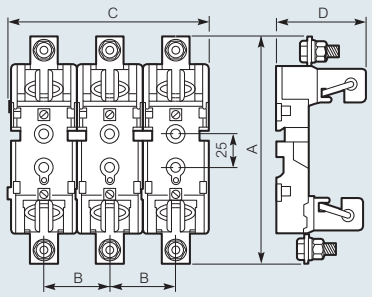



### ■ With micro-switch (p. 94)




| Size | 0 | 1 | 2 |
|---|---|---|---|
| A (mm) | 171 | 200 | 225 |
| B (mm) | 150 | 175 | 200 |
| C (mm) | 63 | 72 | 78 |
| D (mm) | 20 | 25 | 30 |
| E (mm) | – | 30 | 30 |
| F (mm) | 25 | 25 | 25 |
| G (mm) | 125 | 150 | 170 |
| H (mm) | 75 | 80 | 80 |
| I (mm) | 23 | 28 | 32 |
| J (mm) | 68 | 68 | 83 |
| K (mm) | 24 | 35 | 35 |
| L (mm) | 43 | 46 | 58 |
| M (mm) | 28 | 38 | 39 |
| N (mm) | 11·5 | 13·5 | 13·5 |
| O (mm) | 14 | 20 | 20 |
| P (mm) | 7·5 | 10·5 | 10·5 |
| Q (mm) | 8 | 10 | 10 |
| R (mm) | 75 | 85 | 90 |
| S (mm) | 198 | 215 | 229 |

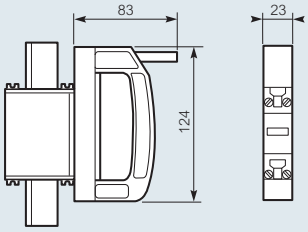
**Triple pole** (p. 94)

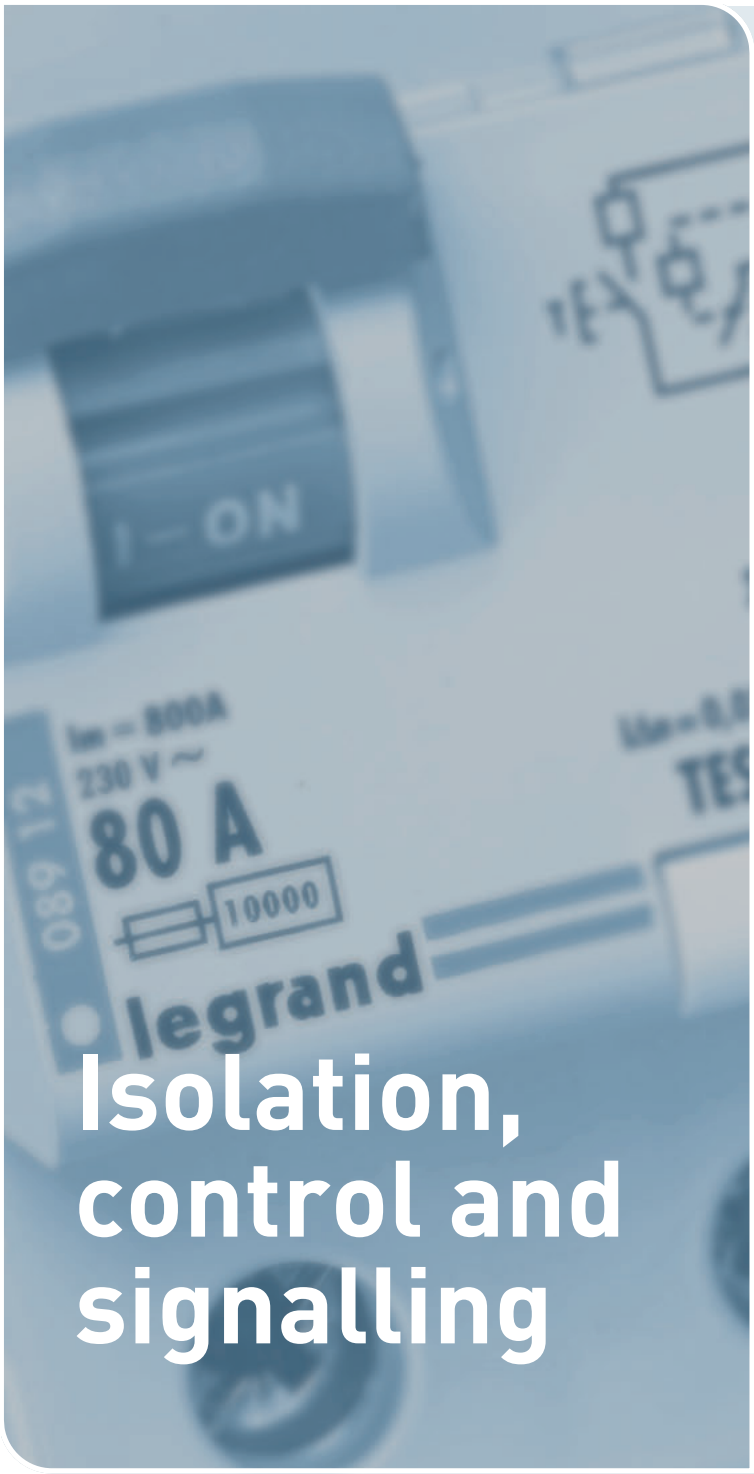



| Size | 0 | 1 | 2 |
|---|---|---|---|
| A (mm) | 171 | 200 | 225 |
| B (mm) | 48 | 62·5 | 68 |
| C (mm) | 144 | 180 | 204 |
| D (mm) | 67 | 81 | 93 |

### ■ Removable handle (p. 94)

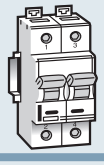
For sizes 00 - 0 - 1 - 2





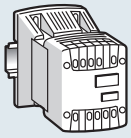

# Isolation, control and signalling


**Isolating and changeover switches**



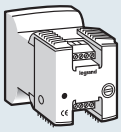
**P. 100** Isolating switches 16 to 125 A

**Transformers**



**P. 106** Control, signalling and safety isolation transformers

**Power supplies**



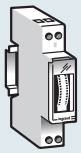
**P. 112** Filtered power supplies

**Signalling**

**P. 114** Power contactors

**Time switches and light control switches**

**P. 120** NEW AlphaRex³ programmable digital for rail



**P. 125** NEW MicroRex analogue for rail


## NEW IN 2012

### AlphaRex³ and AlphaRex³ Astro time switches

digital for rail

(p. 120)

### MicroRex D Plus time switches

digital for rail

(p. 123)

**P. 101** Vistop isolating switches 63 to 160 A

**P. 102** Vistop technical information

**P. 103** Changeover switches

**P. 103** Changeover switches technical information

**P. 107** Control transformers dimensions and electrical characteristics

**P. 108** NEW Compact transformers

**P. 109** Compact transformers dimensions and electrical characteristics

**P. 110** How to calculate rated power and transformer protection

**P. 112** Filtered power supplies technical information

**P. 113** Filtered power supplies electrical characteristics

**P. 115** Power contactors technical information

**P. 116** Push buttons/ control switches and indicators

**P. 116** NEW Transformers and buzzers

**P. 117** Modular DIN rail equipment dimensions

**P. 120** NEW AlphaRex$^3$ Astro programmable digital for rail

**P. 123** NEW MicroRex D Plus digital for rail

**P. 123** MicroRex D digital for rail

**P. 124** MaxiRex digital surface or panel mounting

**P. 126** MaxiRex analogue surface and panel mounting

**P. 126** NEW EconoRex analogue surface and panel mounting

**P. 127** MicroLux D light sensitive switch digital for rail

**P. 127** NEW Electronic time-lag switch digital for rail

## MicroRex time switches

analogue for rail

(p. 125)

## EconoRex time switch

analogue surface and panel mounting

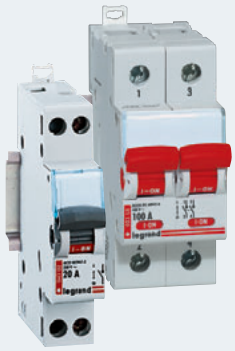
(p. 126)

# Isolation, control and signalling

Legrand's extensive range of DIN rail mounted equipment for isolation, control and signalling covers everything you need from isolating and changeover switches, transformers and power supplies to power contactors and time switches.

DIN rail mounting protection devices are also available, (see p. 54 to 95).

## ISOLATING SWITCHES



FEATURES -
- Double break contacts
- Visible contact indicator
- Standard isolating switches and Vistop options available (see below)

TECH DATA (standard range) -
Breaking capacity: AC 22A
Current rating: 16A to 125A
Rated voltage: 250V / 400V

## CHANGEOVER SWITCHES

FEATURES -
- Locking accessories available
- Two way, double two way and two way with centre point options

TECH DATA -
Breaking capacity: AC 22A
Nominal rating: 20A
Rated voltage: 250V

## Vistop isolating switches

Combine isolation with load breaking in one unit with Vistop isolating switches... available in 4 current ratings, from 63A to 160A, Vistop boasts a double break switch to reduce arcing, and can be equipped with a full range of range of accessories and a choice of front, side or external handles, (see p. 101).

TECH DATA -
Breaking capacity: 15kA
Current rating: 63A to 160A
Rated voltage: 250V

## TRANSFORMERS & POWER SUPPLIES

FEATURES -

- Control, signalling and safety isolation transformers
- Compact transformers
- Filtered power supplies

For further information see p. 104 to 113

## POWER CONTACTORS

FEATURES -

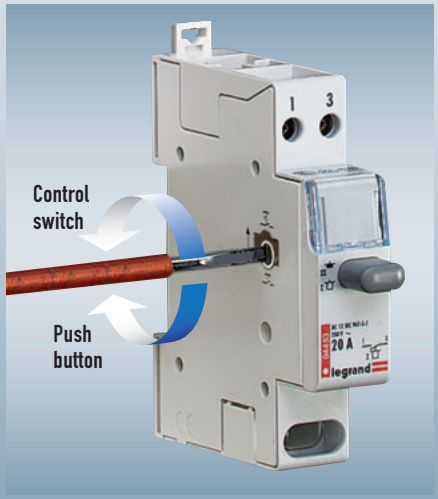
- Contact choice: N/O - normally open
  N/C - normally closed
- Easy fixing of control and auxiliaries ensures optimum strength
- Ergonomic design - easy identification of handle position
- Independent screw connection / wiring of control and power terminals at any one time

## TIME SWITCHES

FEATURES -

- Digital and analogue options
- DIN rail and surface mounting options
- NEW AlphaRex³ programmable range

For further information see p. 118 to 127




# It's a push button, it's a control switch... you decide

Turn a momentary contact into a maintained contact at the turn of a button with Legrand's versatile push button / control switches.

Available with normally open (N/O), normally closed (N/C) or both N/O and N/C contacts, and in single function or dual function with indicators.

See p. 116

# isolating switches
## 16 to 125 A

0043 22

0043 36

0043 55

0043 74

*Dimensions (p. 117)*

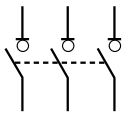
Conform to IEC 60669-1
Breaking capacity AC 22 A according to BS EN 60947-3
Double break contacts
Visible contact indicator

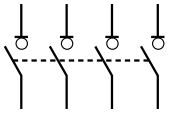
## Isolating switches

| Pack | Cat. Nos. | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|
| | | **Single pole - 250 V∿** | |
| 10 | 0043 01 | 16 | 1 |
| 10 | 0043 02 | 20 | 1 |
| 10 | 0043 05 | 32 | 1 |
| 10 | 0043 07 | 40 | 1 |
| 10 | 0043 10 | 63 | 1 |
| 5 | 0043 14 | 100 | 1 |
| | | **Double pole - 400 V∿** | |
| 10 | 0043 21 | 16 | 1 |
| 10 | 0043 22 | 20 | 1 |
| 10 | 0043 25 | 32 | 1 |
| 5 | 0043 27 | 40 | 2 |
| 5 | 0043 30 | 63 | 2 |
| 5 | 0043 31 | 63 with red handle | 2 |
| 5 | 0043 34 | 100 | 2 |
| 5 | 0043 36 | 100 with red handle | 2 |
| 2 | 0043 38 | 125 | |

## Isolating switches (continued)

| Pack | Cat. Nos. | Nominal rating (A) | Number of 17·5 mm modules |
|---|---|---|---|
| | | **Double pole with indicator - 400 V∿** | |
| | | Supplied with lamp | |
| 10 | 0043 23 | 20 | 1 |
| 10 | 0043 26 | 32 | 1 |
| | | **Triple pole - 400 V∿** | |
| 5 | 0043 42 | 20 | 2 |
| 5 | 0043 45 | 32 | 2 |
| 3 | 0043 47 | 40 | 3 |
| 3 | 0043 50 | 63 | 3 |
| 3 | 0043 54 | 100 | 3 |
| 3 | 0043 55 | 100 with red handle | 3 |
| 3 | 0043 58 | 125 | 3 |
| | | **Four pole - 400 V∿** | |
| 5 | 0043 62 | 20 | 2 |
| 5 | 0043 65 | 32 | 2 |
| 2 | 0043 67 | 40 | 4 |
| 2 | 0043 70 | 63 | 4 |
| 2 | 0043 74 | 100 | 4 |
| 2 | 0043 75 | 100 with red handle | 4 |
| 2 | 0043 78 | 125 | 4 |

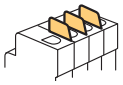




## Accessories

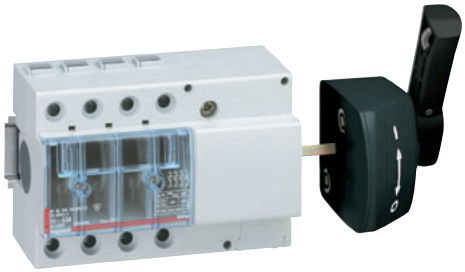
| | | |
|---|---|---|
| | | **Locking device** |
| 2 | 0044 42 | Attachment for Ø 5 mm padlock |
| | | **Padlock** |
| 3 | 0044 43 | Ø 5 mm |
| | | **Sealable screw cover** |
| 2 | 0044 44 | 4 separate poles |
| | | **Insulating shield** |
| 6 | 0044 47 | Insulating shield |

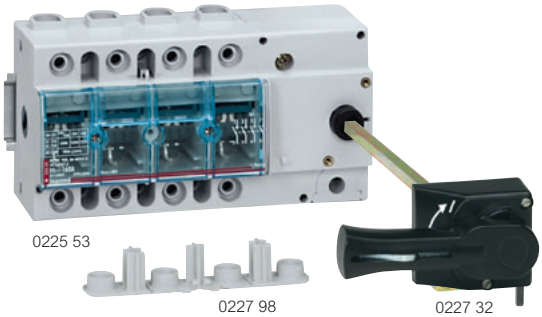
Screw cover


Insulating shield

# Vistop™ isolating switches
## 63 to 160 A

0225 15


0225 18


0225 53

0227 98

0227 32

*Dimensions and technical information (p. 102)*

Conform to BS EN 60947-3
Bureau Veritas approved
Safety switches for on-load circuit breaking by visible isolation of the contacts
Double break type load switching with self cleaning contacts by rapid make and break movements
Fixing on rail ⊔ EN 60715 or screw fixing (only on rail for Vistop 63 A)
2 versions for mounting on faceplate :
• **left or right side handle**, supplied with seal to maintain the IP protection of the enclosure (up to IP 55), screws, self adhesive drilling template, extension rod (30 to 170 mm) for creating an external angle
• **direct front handle or external handle** with Cat. No. 0227 32

### Vistop isolating switches with black handle - 63 to 160 A

Possibility to add auxiliary contact Cat. No. 0227 07

| Pack | Cat. Nos. Front handle | Cat. Nos. Side handle | | Connection | Number of 17·5 mm modules |
|---|---|---|---|---|---|
| | | | **63 A** | | |
| 1 | 0225 12 | 0225 16 | 3P | Cage terminals | 7 |
| 1 | 0225 15 | 0225 18 | 4P | | 7 |
| | | | **100 A** | | |
| 1 | 0225 20 | 0225 25 | 3P | Key 6 sides | 7.5 |
| 1 | 0225 22 | 0225 27 | 4P | | 9 |
| | | | **125 A** | | |
| 1 | 0225 34 | 0225 44 | 3P | Key 6 sides | 7.5 |
| 1 | 0225 39 | 0225 46 | 4P | | 9 |
| | | | **160 A** | | |
| 1 | 0225 51 | 0225 54 | 3P | Key 6 sides | 7.5 |
| 1 | 0225 53 | 0225 56 | 4P | | 9 |

### Front external handle kit

| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0227 32 | Comprising : connection rod, bracket, self-adhesive drilling template, fixing accessories (including a seal to maintain the IP protection of enclosure up to IP 55) and locking mechanism to prevent opening of the door when the circuit is closed<br>Door distance 35 to 470 mm |

### Auxiliary switches for on-off signalling IP 2x - 5 A - 250 V

**N/O + N/C contact**
For incorporation in one-piece enclosure

| Pack | Cat. Nos. | | Connection (mm²) |
|---|---|---|---|
| 1 | 0227 04 | Main contact<br>2 N/C + 2 N/O mounting | |
| 1 | 0227 07 | Additional N/C + N/O auxiliary contact<br>2 N/C + 2 N/O mounting | lug 2·58 |

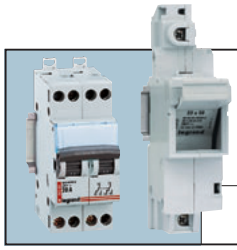
### Auxiliary isolating switch 2 pole - 16 A - 400 V

For creating 3 or 4 pole assemblies for simultaneous breaking of 2 pole auxiliary power supply (PLC, remote control), 16 A maximum
Mounts on the left side of Vistop 100 to 160 A

| Pack | Cat. Nos. | | Connection | Number of 17·5 mm modules |
|---|---|---|---|---|
| 1 | 0227 22 | 2 P | Cage terminals | 1·5 |

### Sealable terminal shields

| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0227 98 | Set of 2 separate, sealable terminal shields<br>Clip on upstream and/or downstream of Vistop 160 A |



**For changeover switches and fuse carriers**

**see p. 103 and 89**

# Vistop™ isolating switches
63 to 160 A

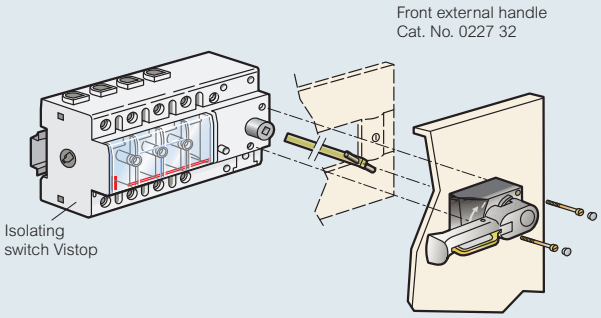
Conform to standards BS EN 60947-3, EN / IEC 60947-3, VDE 0660, NBN EN 60947-3, CNOMO E03 - 15-611 R, Bureau Veritas approved
Glass fibre reinforced insulating casing, self-extinguishing at 960 °C (IEC EN 60695-2-1)
Handle can be padlocked in open position using 1 to 3 padlocks Ø6 mm

## ■ Electrical characteristics

| Thermal rating (Ith) | | 63 A | 100 A | 125 A | 160 A |
|---|---|---|---|---|---|
| Terminals | | cage | cage | cage | cage |
| Connection | Cu (flexible) | 4 to 35² | 4 to 50 mm² | | |
| | Cu (rigid) | 4 to 50² | 4 to 70 mm² | | |
| Insulating voltage (Ui) | | 690 V∿ | 800 V∿ | 800 V∿ | 800 V∿ |
| Impulse resistant voltage (Uimp) | | 8 kV | 8 kV | 8 kV | 8 kV |
| AC 22 A(1) | 400 V | 63 A (35 kW) | 100 A (55 kW) | 125 A (70 kW) | 160 A (88 kW) |
| AC 23 A(1) | 500 V | 63 A (44 kW) | 100 A (69 kW) | 125 A (87 kW) | 160 A (110 kW) |
| | 690 V | 40 A (38 kW) | 100 A (96 kW) | 125 A (120 kW) | 125 A (120 kW) |
| DC 22 A/250 V(1)(2) | | 63 | 100 | 125 | 125 |
| DC 23 A/250 V(1)(2) | | 63 | 100 | 125 | 125 |
| Breaking capacity (Icu) (kA peak) | | 15 | 15 | 15 | 15 |
| 1 s resistant current (kA rms) (Icw) | | 2·5 | 3·5 | 3·5 | 3·5 |
| Icc with fuses (kA rating) | | 100 | 100 | 100 | 80 |
| Fuse rupture capacity | | 63 A | 100 A (gG) 63 A (aM)(3) | 125 A (gG) 125 A (aM)(3) | 160 A (gG) 125 A (aM) |
| Short circuit capacity (kA prospective peak) (Icm) | | 7 | 12 | 12 | 12 |
| Mechanical endurance (No. of operations) | | > 30000 | > 30000 | > 30000 | > 30000 |
| Index of protection | | IP 2x B (IP 3x C under front plates) from 6 mm² | IP 2x B (IP 3x C under front plate) from 10 mm² | | |

(1) Test according to IEC 60947-3
AC 22 A / DC 22 A: resistive motor breaking
AC 23 A / DC 23 A: inductive motor breaking
(2) No of breaking contacts: 2
(3) 100 A (aM) with blade type cartridge fuses

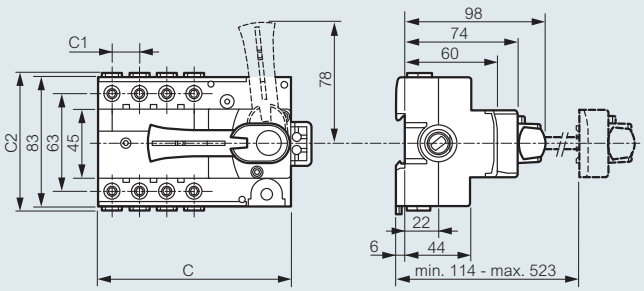
## ■ Example of mounting with Vistop 100 to 160 A




## ■ Dimensions

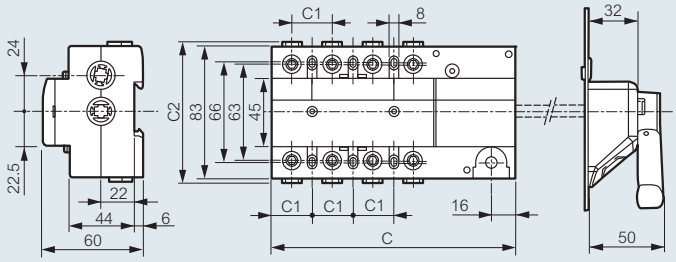
### Front handle
• 63 to 160 A

Direct External




| | Front handle | | |
|---|---|---|---|
| | 63 A | 100 A, 125 A, 160 A | |
| | 3P and 4P | 3P | 4P |
| C | 125 | 133 | 160 |
| $C_1$ | 17·7 | 26·7 | |
| $C_2$ | 90 | 91 | |

### Side handle
• 63 to 160 A




| | External side handle | | |
|---|---|---|---|
| | 63 A | 100 A, 125 A, 160 A | |
| | 3P and 4P | 3P | 4P |
| C | 125 | 133 | 160 |
| $C_1$ | 17·7 | 26·7 | |
| $C_2$ | 90 | 91 | |

# changeover switches

0043 82

0043 83

*Dimensions and technical information (opposite)*

| Pack | Cat. Nos. | Changeover switches | Nominal rating (A) | No. of 17·5 mm modules |
|---|---|---|---|---|
| | | Conform to IEC 60669-1<br>Breaking capacity AC 22 A according to BS EN 60947-3 | | |
| 10 | 0043 82 | **Two way - 250 V∿** | 20 | 1 |
| 5 | 0043 83 | **Double two way - 400 V∿** | 20 | 2 |
| 10 | 0043 85 | **Two way with centre point - 250 V∿** | 20 | 1 |

| Pack | Cat. Nos. | Locking accessories |
|---|---|---|
| 2 | 0044 42 | **Locking device**<br>Attachment for Ø 5 mm padlock |
| 3 | 0044 43 | **Padlock**<br>Ø 5 mm |

changeover switches

## ■ Protection index

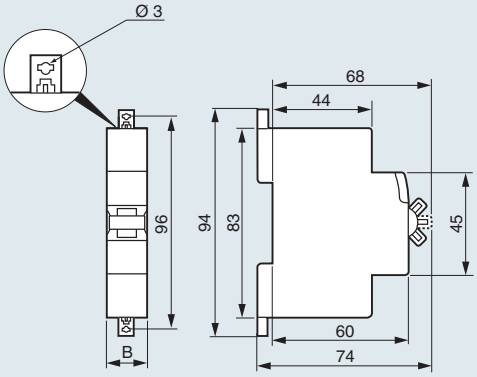
Class II ⧈
IP 2x protection against direct contact

## ■ Mechanical characteristics

**• Environmental conditions**

Operating temperature : –5 °C to +40 °C

## ■ Dimensions




| Cat. Nos. | B |
|---|---|
| 0043 82/85 | 17·7 |
| 0043 83 | 35·6 |

## ■ Installation

**• Mounting**

- on symmetrical rail EN 50-022
- with Ø 3 screw on plate using ends of released claws
- supply via the top or the bottom
- operating position : vertical

**• Wiring**

| | |
|---|---|
| **Conductors permitted** | |
| Flexible with end caps | 1·5 to 4 mm² |
| Rigid | 1·5 to 4 mm² |
| **Tools required :** | |
| Flat blade screwdriver | Ø 4 mm |
| Posidrive screwdriver | Pz 1 |
| **Tightening torque** | |
| Min. | 0·8 Nm |
| Max. | 1·8 Nm |
| Recommended | 1·2 Nm |

# Transformers and power supplies...

## the reliable choice

Specifically designed to meet the needs of control and signalling, isolation and safety isolation, Legrand's open type single phase transformers are suited to a multitude of applications.

The offer is complemented by a range of filtered power supplies, specifically for 12 or 24 V DC applications.

### MEETING THE STANDARDS

Control & signalling IEC / EN 61558-2-2

Isolating IEC / EN 61558-2-4

Safety isolating IEC / EN 61558-2-6

## CONTROL, SIGNALLING AND ISOLATION TRANSFORMERS

Ideal for heavy automation systems, industrial process systems and complex machinery.

### FEATURES

- Primary tapping +/- 15 V
- 40 VA to 4000 VA
- Permanent laser engraved markings
- DIN rail or mounting plate fixing
- Integral electrostatic shield
- Interference/disturbance filter
- Visible terminals ensure safe and reliable connections
- Supplied complete with voltage links

### TECHNICAL DATA

**APPROVALS:** IEC/EN 61558-2-2, IEC/EN 61558-2-4, IEC/EN 61558-2-6, UL, CSA

**PROTECTION:** IP2X up to 400 A, IK04

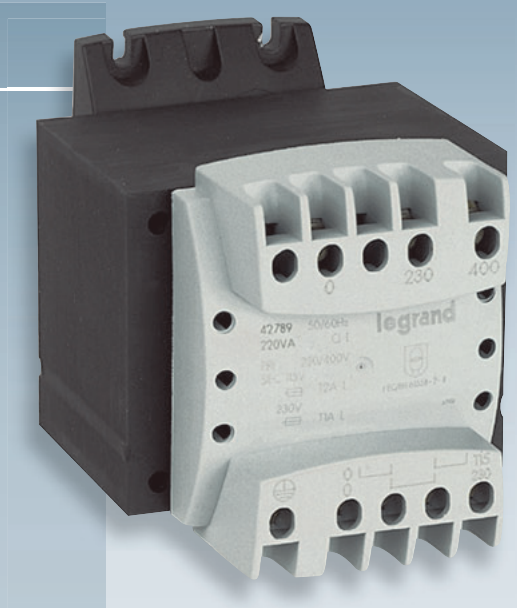
**OPERATING TEMPERATURE:** up to 50° C without derating

**RECOMMENDED PROTECTION:** via a gG type fuse or by C type circuit breaker

## COMPACT TRANSFORMERS

**Ideal for standard systems where compact dimensions are a key installation requirement.**

**NEW** **Fixed secondary voltage: 24 V range 40 VA to 630 VA, (see p. 108).**




### FEATURES

- **40 VA to 630 VA**
- **Noise filtering up to 220 VA**
- **Permanent laser engraved markings**
- **Multiple fixing options: standard plate mounting. DIN rail optional**
- **Visible terminals ensure safe and reliable connections**
- **Supplied complete with voltage links**

### TECHNICAL DATA

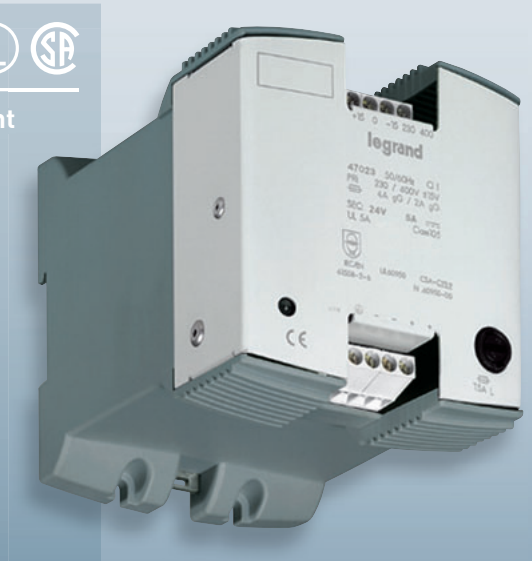
**APPROVALS:** IEC/EN 61558-2-4, IEC/EN 61558-2-6

**OPERATING TEMPERATURE:** up to 35° C without derating

**RECOMMENDED PROTECTION:** Type T fuses for 40 VA and 63 VA Type C MCBs for 100 VA and greater

## FILTERED POWER SUPPLIES

**A range of filtered power supplies for PLCs and other equipment requiring a voltage of 12 V DC or 24 V DC.**




### FEATURES

- **Ripple factor < 3%**
- **Twin output terminals for ease of connection**
- **DIN rail or mounting plate fixing**
- **Noise filtering**
- **Integrated secondary fuse protection**
- **Supplied with busbar for quick connection between neutral and earth (up to 15 V)**

### TECHNICAL DATA

**APPROVALS:** UL, CSA

**OPERATING TEMPERATURE:** Up to 60° C without derating

# control, signalling and safety isolation transformers

## open type single phase

c UL us LISTED IND.CONT.EQ

0442 35

0442 68

0442 71

*Dimensions and technical information (p. 107)*

IP 2x or xxB up to 400 VA
IP xxA above 400 VA - IK 04
Conform to IEC/EN 61558-2-2 and 2-4 or 2-6
UL506 and CSA C22-2-N°66
Products suitable for building into equipment conforming to EN 61131-2, EN 60204-1 and EN 60439-1 standards
Insulated covers up to 1 000 VA provided
Interference/disturbance filter included
Screw fix to mounting plate or clip on to DIN rail up to 250 VA
Supplied with 0V/Earth connection link up to 1 000 VA

### Single phase

**Primary : 230-400 V ± 15 V**
**Secondary : 24-48 V**
Supplied with 2 links

| Pack | Cat. Nos. | Power in VA according to IEC and CSA | Power in VA according to UL | Admissible instantaneous power at cos φ = 0·5 | 24 V | 48 V |
|---|---|---|---|---|---|---|
| 1 | 0442 31 | 40 | 40 | 52 | | |
| 1 | 0442 32 | 63 | 63 | 87 | | |
| 1 | 0442 33 | 100 | 100 | 150 | | |
| 1 | 0442 34 | 160 | 140 | 250 | | |
| 1 | 0442 35 | 250 | 210 | 420 | | |
| 1 | 0442 36 | 400 | 300 | 900 | | |
| 1 | 0442 37 | 630 | 500 | 1 700 | | |
| 1 | 0442 38 | 1 000 | 700 | 2 000 | | |
| 1 | 0442 39 | 1 600 | 700 | 8 500 | | |
| 1 | 0442 40 | 2 500 | 1 400 | 3 300 | | |

### Single phase

**Safety isolating transformers**

**Primary : 230-400 V ± 15 V**
**Secondary : 115-230 V**
Supplied with 2 links

| Pack | Cat. Nos. | Power in VA according to IEC and CSA | Power in VA according to UL | Admissible instananeous power at cos φ = 0·5 |
|---|---|---|---|---|
| 1 | 0442 61 | 40 | 40 | 50 |
| 1 | 0442 62 | 63 | 63 | 86 |
| 1 | 0442 63 | 100 | 100 | 150 |
| 1 | 0442 64 | 160 | 140 | 250 |
| 1 | 0442 65 | 250 | 210 | 430 |
| 1 | 0442 66 | 400 | 300 | 1 200 |
| 1 | 0442 67 | 630 | 500 | 1 600 |
| 1 | 0442 68 | 1 000 | 700 | 2 000 |
| 1 | 0442 69 | 1 600 | 700 | 6 100 |
| 1 | 0442 70 | 2 500 | 1 300 | 7 100 |
| 1 | 0442 71 | 4 000 | 2 400 | 11 400 |

### Secondary protection

**Transformers can be protected by a gG type fuse or by a C type circuit breaker**
(p. 91 and 79)

### Multiple fixing possibilities

**For DIN rail** (p. 26)
**For Lina 12·5 plates** (p. 23)
**For Lina 25 plates** (p. 23)

**For 460 V primary voltage range available for marine applications**

**Contact us on +44 (0) 845 605 4333**

**For modular transformers**

**see p. 116**

# control, signalling and safety isolation transformers
## open type single phase

## ■ Dimensions

Fig. 1 : 40 to 400 VA

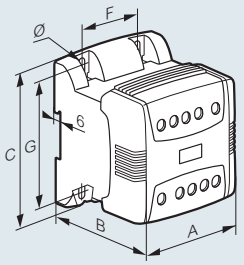



Fig. 2 : 630 to 1 000 VA

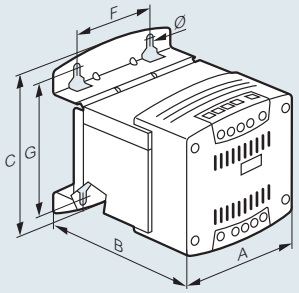



Fig. 3 : 1 600 to 2 500 VA

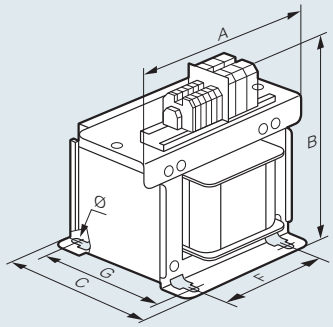
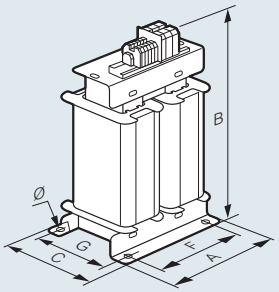
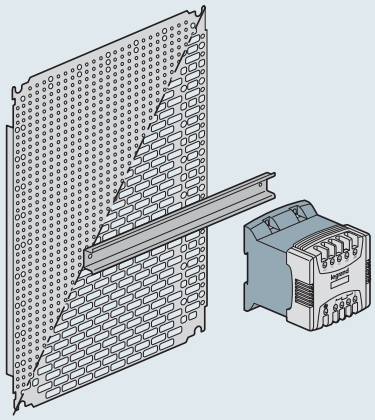


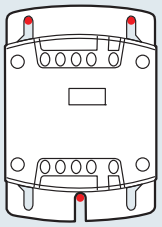

Fig. 4 : 4 000 to 8 000 VA




## ■ Fixing

On perforated plates Lina 25 and on Lina 12·5 plates, see p. 23
On symmetrical rail ⊥ up to 250 VA
fixing centres pitch 25 mm up to 1 000 VA





Oblong fixings :
Attachment at
3 points possible

| Cat. Nos. | Power (VA) | Fig. | Dimensions (mm) | | | Fixing[1] (mm) | | | Weight (Kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | F | G | Ø | |
| **0442 31/61** | 40 | 1 | 94 | 78 | 113 | 50 | 100 | 5·2 | 1·23 |
| **0442 32/62** | 63 | 1 | 94 | 85 | 113 | 50 | 100 | 5·2 | 1·56 |
| **0442 33/63** | 100 | 1 | 94 | 94 | 113 | 50 | 100 | 5·2 | 1·95 |
| **0442 34/64** | 160 | 1 | 94 | 112 | 113 | 50 | 100 | 5·2 | 2·6 |
| **0442 35/65** | 250 | 1 | 106 | 123 | 115 | 50 | 100 | 5·2 | 3·82 |
| **0442 36/66** | 400 | 1 | 120 | 140 | 140 | 62·5 | 125 | 5·2 | 5·62 |
| **0442 37/67** | 630 | 2 | 150 | 158 | 206 | 100 | 175 | 7 | 9·9 |
| **0442 38/68** | 1 000 | 2 | 150 | 199 | 206 | 100 | 175 | 7 | 14·9 |
| **0442 39/69** | 1 600 | 3 | 220 | 245 | 191 | 150 | 153 | 9 | 25·6 |
| **0442 40/70** | 2 500 | 3 | 300 | 292 | 171 | 200 | 114 | 9 | 33·1 |
| **0442 71** | 4 000 | 4 | 230 | 340 | 205 | 180 | 130 | 11 | 31 |

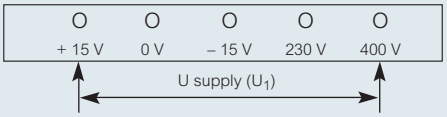
**Note :** 40-250 VA transformers have juxtaposed windings with an insulated barrier to provide insulation and interference filtering. Higher ratings have an electrostatic screen between windings

(1) Up to 250 VA may be fixed to symmetrical ⊥ DIN rail

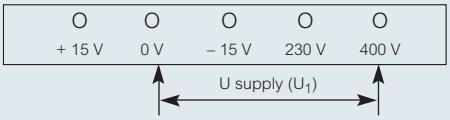
## ■ Electrical characteristics

Single phase 50-60 Hz - Class 1
Insulation voltage between windings : 4 510 V
Maximum ambient operating temperatures : 50 °C without derating

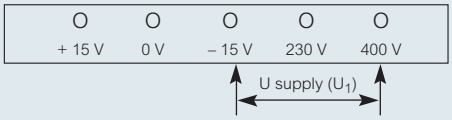
Voltage adjustment




1) if $U_1 > 230$ or 400 V
2) if $I_2 < I_{2n}$ (if the load is less than the nominal load reduce the secondary voltage)




if $U_1 = 230$ or 400 V with load $I_2 = I_{2n}$




if $U_1 < 230$ or 400 V with load $I_2 = I_{2n}$

| Cat. Nos. | Power (VA) | Admissible instantaneous power (VA) at cos φ of : | | | | | | | | | No-load loss (W) | On-load loss[1] (W) | Voltage drop as (%) with cos φ : | | | Efficiency (%) with cos φ : | | | Ucc (%) | Connection capacity | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | Primary cable (mm²) | | Secondary cable (mm²) | |
| | | 0·2 | 0·3 | 0·4 | 0·5 | 0·6 | 0·7 | 0·8 | 0·9 | 1 | | | 0·3 | 0·6 | 1 | 0·3 | 0·6 | 1 | | flexible | rigid | flexible | rigid |
| **Primary 230-400 V ± 15 V - Secondary 24-48 V** | | | | | | | | | | | | | | | | | | | | | | | |
| **0442 31** | 40 | 63 | 58 | 55 | 52 | 50 | 48 | 48 | 49 | 60 | 3·9 | 7·3 | 8·7 | 10·5 | 8·5 | 62 | 77 | 84 | 10·0 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 32** | 63 | 110 | 102 | 94 | 87 | 83 | 79 | 77 | 78 | 91 | 6·0 | 14·2 | 7·5 | 9·4 | 8·5 | 57 | 73 | 82 | 9·0 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 33** | 100 | 200 | 180 | 160 | 150 | 140 | 130 | 130 | 130 | 150 | 8·2 | 15·1 | 7·3 | 9·3 | 8·9 | 66 | 80 | 87 | 8·9 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 34** | 160 | 340 | 300 | 270 | 250 | 230 | 220 | 210 | 210 | 230 | 11·2 | 24·6 | 5·8 | 7·6 | 7·7 | 66 | 80 | 87 | 7·2 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 35** | 250 | 550 | 490 | 450 | 420 | 400 | 380 | 370 | 370 | 430 | 14·9 | 31·4 | 5·2 | 6·6 | 6·2 | 70 | 83 | 89 | 6·1 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 36** | 400 | 1 800 | 1 300 | 1 100 | 900 | 800 | 700 | 600 | 600 | 500 | 18·3 | 46·3 | 2·1 | 3·7 | 5·6 | 72 | 84 | 90 | 4·2 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 37** | 630 | 2 700 | 2 200 | 1 900 | 1 700 | 1 500 | 1 300 | 1 200 | 1 200 | 1 200 | 24·1 | 49·4 | 2·0 | 3·0 | 3·9 | 79 | 88 | 93 | 3·3 | 1 to 16 | 1 to 16 | 1 to 16 | 1 to 16 |
| **0442 38** | 1 000 | 3 400 | 2 800 | 2 300 | 2 000 | 1 800 | 1 600 | 1 500 | 1 400 | 1 300 | 44·2 | 74·4 | 1·3 | 1·9 | 2·9 | 80 | 89 | 93 | 2·4 | 1 to 16 | 1 to 16 | 1 to 16 | 1 to 16 |
| **0442 39** | 1 600 | 12 800 | 10 900 | 9 500 | 8 500 | 7 700 | 7 100 | 6 700 | 6 400 | 6 600 | 65·5 | 94·7 | 1·1 | 1·6 | 1·9 | 84 | 91 | 94 | 1·7 | 2·5 to 10 | 1·5 to 16 | 4 to 16 | 1·5 to 25 |
| **0442 40** | 2 500 | 4 300 | 3 900 | 3 600 | 3 300 | 3 100 | 3 000 | 2 900 | 2 900 | 3 400 | 86·5 | 143·4 | 1·8 | 2·2 | 2·0 | 84 | 91 | 95 | 1·9 | 4 to 16 | 1·5 to 25 | 4 to 35 | 2·5 to 50 |
| **Primary 230-400 V ± 15 V - Secondary 115-230 V** | | | | | | | | | | | | | | | | | | | | | | | |
| **0442 61** | 40 | 62 | 57 | 53 | 50 | 48 | 47 | 46 | 47 | 57 | 3·9 | 7·4 | 8·7 | 10·5 | 8·8 | 62 | 76 | 84 | 10·1 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 62** | 63 | 110 | 100 | 93 | 86 | 82 | 78 | 76 | 76 | 90 | 6·0 | 11·8 | 7·6 | 9·6 | 8·9 | 62 | 76 | 84 | 9·2 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 63** | 100 | 200 | 180 | 160 | 150 | 140 | 140 | 130 | 130 | 150 | 8·2 | 17·3 | 7·2 | 9·2 | 8·6 | 63 | 78 | 85 | 8·7 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 64** | 160 | 330 | 300 | 270 | 250 | 240 | 230 | 220 | 220 | 250 | 11·2 | 23·4 | 5·8 | 7·4 | 7·1 | 67 | 80 | 87 | 6·9 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 65** | 250 | 560 | 510 | 460 | 430 | 410 | 390 | 380 | 370 | 430 | 14·9 | 31·7 | 5·2 | 6·6 | 6·2 | 70 | 83 | 89 | 6·1 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 66** | 400 | 2 200 | 1 700 | 1 400 | 1 200 | 1 000 | 910 | 830 | 760 | 730 | 18·3 | 43·9 | 2·1 | 3·6 | 5·2 | 73 | 85 | 90 | 4·1 | 1 to 4 | 1 to 4 | 1 to 4 | 1 to 4 |
| **0442 67** | 630 | 2 700 | 2 200 | 1 800 | 1 600 | 1 400 | 1 200 | 1 100 | 1 000 | 1 000 | 24·1 | 53·2 | 2·1 | 3·3 | 4·5 | 78 | 88 | 92 | 3·6 | 1 to 16 | 1 to 16 | 1 to 16 | 1 to 16 |
| **0442 68** | 1 000 | 3 400 | 2 800 | 2 300 | 2 000 | 1 800 | 1 600 | 1 500 | 1 400 | 1 300 | 44·2 | 73·6 | 1·3 | 2·0 | 2·7 | 80 | 89 | 93 | 2·2 | 1 to 16 | 1 to 16 | 1 to 16 | 1 to 16 |
| **0442 69** | 1 600 | 8 700 | 7 500 | 6 600 | 6 100 | 5 400 | 5 000 | 4 700 | 4 500 | 4 700 | 65·5 | 95·3 | 1·1 | 1·5 | 1·8 | 83 | 91 | 94 | 1·5 | 2·5 to 10 | 1·5 to 16 | 2·5 to 10 | 1·5 to 16 |
| **0442 70** | 2 500 | 9 200 | 8 300 | 7 600 | 7 100 | 6 700 | 6 300 | 6 200 | 6 100 | 7 100 | 86·5 | 150·1 | 1·8 | 2·3 | 2·2 | 83 | 91 | 94 | 2·0 | 4 to 16 | 1·5 to 25 | 4 to 16 | 1·5 to 25 |
| **0442 71** | 4 000 | 16 500 | 14 300 | 12 700 | 11 400 | 10 500 | 9 800 | 9 200 | 8 900 | 9 500 | 87·4 | 234·8 | 2·1 | 2·9 | 3·3 | 84 | 91 | 94 | 2·7 | 4 to 16 | 1·5 to 25 | 4 to 16 | 1·5 to 25 |

(1) Total losses at nominal load

# compact transformers
## open type single phase

0428 99

0428 41
supplied with connection strip

Connection strip
supplied up to 450 VA

0428 75

0427 89

0427 92

*Technical information and dimensions (p. 109)*
*Transformer protection (p. 111)*

Isolating and safety isolating <50 V transformers
Designed to meet the needs of users with specific VA ratings such as original equipment manufacturers
The terminals are designed to provide easy and quick connections
Transformers up to 160 VA can be clipped to ⊥ rail using accessory or directly fixed using screws through the easily accessible fixing points
Multiple fixing possibilities :
- clip to DIN rail using Cat. No. 0044 16 or 0428 99 (≤ 160 VA)
- screw directly on to Lina 12.5 or Lina 25 mounting plate (≥ 220 VA)
Recommended protection :
• for 40 and 63 VA : Type T fuses (5x20) time delay fuse to IEC 60127
• for >100 VA use MCB Type C

## Single phase

### Safety isolating transformers

**Primary : 230-400 V**
**Secondary : 12-24 V**

| Pack | Cat. Nos. | Power in VA according to IEC/EN | Admissible instantaneous power at cos φ 0·5 |
|---|---|---|---|
| 1 | 0428 40 | 40 VA | 55 |
| 1 | 0428 41 | 63 VA | 91 |
| 1 | 0428 42 | 100 VA | 140 |
| 1 | 0428 43 | 160 VA | 205 |
| 1 | 0428 44 | 220 VA | 290 |
| 1 | 0428 45 | 310 VA | 345 |
| 1 | 0428 47 | 630 VA | 1 520 |

**Primary : 230-400 V**
**Secondary : 24 V**

NEW

| Pack | Cat. Nos. | Power in VA according to IEC/EN | Admissible instantaneous power at cos φ 0·5 |
|---|---|---|---|
| 1 | 0428 55 | 40 VA | 55 |
| 1 | 0428 56 | 63 VA | 91 |
| 1 | 0428 57 | 100 VA | 140 |
| 1 | 0428 58 | 160 VA | 205 |
| 1 | 0428 59 | 220 VA | 290 |
| 1 | 0428 60 | 310 VA | 345 |
| 1 | 0428 61 | 450 VA | 1 100 |
| 1 | 0428 62 | 630 VA | 1 520 |

### Safety isolating transformers

**Primary : 230-400 V**
**Secondary : 24-48 V**

| Pack | Cat. Nos. | Power in VA according to IEC/EN | Admissible instantaneous power at cos φ 0·5 |
|---|---|---|---|
| 1 | 0428 70 | 40 VA | 55 |
| 1 | 0428 71 | 63 VA | 91 |
| 1 | 0428 72 | 100 VA | 140 |
| 1 | 0428 73 | 160 VA | 205 |
| 1 | 0428 74 | 220 VA | 290 |
| 1 | 0428 75 | 310 VA | 345 |
| 1 | 0428 77 | 630 VA | 1 520 |

## Single phase

### Isolating transformers

**Primary : 230-400 V**
**Secondary : 115 V**
**With centre tap**

| Pack | Cat. Nos. | Power in VA according to IEC/EN | Admissible instantaneous power at cos 0·5 |
|---|---|---|---|
| 1 | 6423 62 | 63 VA | 91 |
| 1 | 6423 63 | 100 VA | 140 |
| 1 | 6423 64 | 160 VA | 205 |
| 1 | 6423 65 | 220 VA | 290 |
| 1 | 6423 66 | 310 VA | 345 |
| 1 | 6423 68 | 630 VA | 1 520 |

### Isolating transformers

**Primary : 230-400 V**
**Secondary : 115-230 V**

| Pack | Cat. Nos. | Power in VA according to IEC/EN | Admissible instantaneous power at cos 0·5 |
|---|---|---|---|
| 1 | 0427 85 | 40 VA | 55 |
| 1 | 0427 86 | 63 VA | 91 |
| 1 | 0427 87 | 100 VA | 140 |
| 1 | 0427 88 | 160 VA | 205 |
| 1 | 0427 89 | 220 VA | 290 |
| 1 | 0427 90 | 310 VA | 345 |
| 1 | 0427 92 | 630 VA | 1 520 |

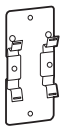
## Accessories

**Clips for fixing up to 160 VA on to rail EN 60715 ⊥**

| | | |
|---|---|---|
| 10 | 0044 16 | Claw width 10 mm<br>Threaded hole for M4 screws<br>(Use two clips per transformer) |

**Mounting bracket**

| | | |
|---|---|---|
| 5 | 0428 99 | DIN rail mounting bracket |



**Note : Other VA ratings available on request. Please consult us**

**For modular transformers**

**see p. 116**

**For protection devices**

**see p. 79**

# compact transformers
## open type single phase

### ■ Technical information

Conform to IEC/EN 61558-2-4 for 48 V, 115 V and 230 V and IEC/EN 61558-2-6 for 12 V and 24 V secondary

Products suitable for building into equipment conforming to EN 61131-2, EN 60204-1 and EN 60439-1 standards
IP 2x or xxB up to 250 VA - IK 04
Single phase 50-60 Hz - class I

Insulation voltage : Primary/Secondary 4 470 V
Primary/Earth 2 240 V
Secondary/Earth (12 - 24 V) = 250 V ; 48, 115 and 230 V = 1 780 V
Max. ambient operating temperature : 35 °C without derating
Protected against accidental contact with live parts up to 220 VA

### ■ Dimensions

Fig. 1 - 40 to 220 VA

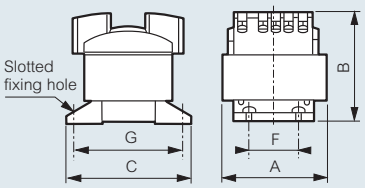



Fig. 2 - 310 VA(1)

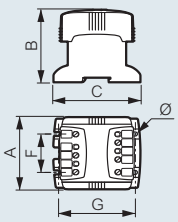
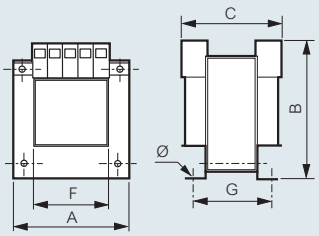
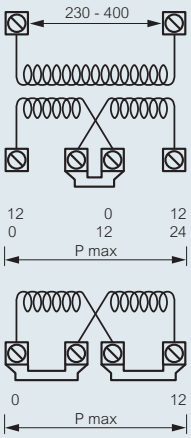



Fig. 3 - 450 to 630 VA

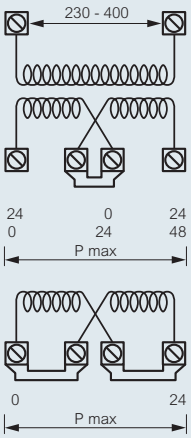



(1) Subject to secondary voltage (see tables)

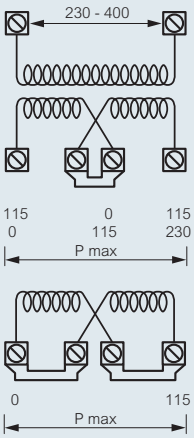
Primary : 230 - 400 V
Secondary : 12 - 0 - 12 V
0 - 12 - 24 V
Cat. Nos.
0428 40 to 0428 47




Primary : 230 - 400 V
Secondary : 24 - 0 - 24 V
0 - 24 - 48 V
Cat. Nos.
0428 70 to 0428 77




Primary : 230 - 400 V
Secondary : 115 - 0 - 115 V
0 - 115 - 230 V
Cat. Nos.
0427 85 to 0427 92




### ■ Electrical characteristics

| Cat. Nos. | Power (VA) | Dimensions (mm) | | | Fixing (mm) | | | Weight (kg) | No-load loss (W) | Total losses @ 100% load (W) | Voltage drop as % with | | Efficiency with | | Ucc % | Primary connection cable mm² | | | Secondary connection cable mm² | | | Fig. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | F | G | Ø | | | | cos φ 1 | cos φ 0·45 | cos φ 1 | cos φ 0·45 | | flexible | rigid | ø mm | flexible | rigid | ø mm | |
| **Primary 230-400 V - 24 V or 2 x 12 V secondary** | | | | | | | | | | | | | | | | | | | | | | |
| **0428 40** | 40 | 84 | 70 | 98 | 40 | 86 | 4·5 | 0·9 | 3·7 | 13·1 | 18·3 | 12·7 | 0·75 | 0·6 | 15·6 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 41** | 63 | 84 | 77 | 98 | 40 | 86 | 4·5 | 1·3 | 4·9 | 16·3 | 13·5 | 10·2 | 0·8 | 0·6 | 11·8 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 42** | 100 | 84 | 86 | 98 | 40 | 86 | 4·5 | 1·6 | 6·2 | 21·0 | 10·5 | 8·7 | 0·8 | 0·7 | 9·5 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 43** | 160 | 84 | 104 | 98 | 40 | 86 | 4·5 | 2·4 | 9·1 | 31·8 | 8·8 | 7·4 | 0·8 | 0·7 | 7·9 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 44** | 220 | 96 | 115 | 110 | 40 | 98 | 4·5 | 3·4 | 12·6 | 40·0 | 6·9 | 6·3 | 0·85 | 0·7 | 6·5 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 45** | 310 | 106 | 123 | 115 | 50 | 100 | 5·2 | 3·8 | 14·2 | 54·9 | 7·3 | 6·2 | 0·85 | 0·7 | 8·2 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 2 |
| **0428 47** | 630 | 126 | 126 | 141 | 90 | 105 | 6·5 | 8·0 | 25·5 | 62·4 | 4·3 | 2·6 | 0·91 | 0·82 | 3·5 | 1 to 4 | 1 to 4 | 4·5 | 1 to 16 | 1 to 25 | 6·5 | 3 |
| **Primary 230-400 V - 24 V secondary** | | | | | | | | | | | | | | | | | | | | | | |
| **0428 55** | 40 | 84 | 70 | 98 | 40 | 86 | 4·5 | 0·9 | 3·7 | 13·1 | 18·3 | 12·7 | 0·75 | 0·58 | 15·6 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 56** | 63 | 84 | 77 | 98 | 40 | 86 | 4·5 | 1·3 | 4·9 | 16·3 | 13·5 | 10·2 | 0·79 | 0·64 | 11·8 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 57** | 100 | 84 | 86 | 98 | 40 | 86 | 4·5 | 1·6 | 6·2 | 21·0 | 10·5 | 8·7 | 0·83 | 0·68 | 9·5 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 58** | 160 | 84 | 104 | 98 | 40 | 86 | 4·5 | 2·4 | 9·1 | 31·8 | 8·8 | 7·4 | 0·83 | 0·69 | 7·9 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 59** | 220 | 96 | 115 | 110 | 40 | 98 | 4·5 | 3·4 | 12·6 | 40·0 | 6·9 | 6·3 | 0·85 | 0·71 | 6·5 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 60** | 310 | 106 | 123 | 115 | 50 | 100 | 5·2 | 3·82 | 14·2 | 54·9 | 7·3 | 6·2 | 0·85 | 0·72 | 8·2 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 2 |
| **0428 61** | 630 | 126 | 126 | 126 | 90 | 94 | 6·5 | 6·0 | 21·8 | 63·9 | 6·0 | 3·2 | 0·88 | 0·76 | 4·9 | 1 to 4 | 1 to 4 | 4·5 | 1 to 16 | 1 to 25 | 6·5 | 3 |
| **0428 62** | 630 | 126 | 126 | 141 | 90 | 105 | 6·5 | 8·0 | 25·5 | 62·4 | 4·3 | 2·6 | 0·91 | 0·82 | 3·5 | 1 to 4 | 1 to 4 | 4·5 | 1 to 16 | 1 to 25 | 6·5 | 3 |
| **Primary 230-400 V - 48 V or 2 x 24 V secondary** | | | | | | | | | | | | | | | | | | | | | | |
| **0428 70** | 40 | 84 | 77 | 98 | 40 | 86 | 4·5 | 1·3 | 3·7 | 12·9 | 18·0 | 12·5 | 0·8 | 0·6 | 15·4 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 71** | 63 | 84 | 86 | 98 | 40 | 86 | 4·5 | 1·6 | 4·9 | 16·5 | 13·7 | 10·3 | 0·8 | 0·6 | 11·9 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 72** | 100 | 84 | 104 | 98 | 40 | 86 | 4·5 | 2·4 | 6·2 | 21·0 | 10·4 | 8·7 | 0·8 | 0·7 | 9·4 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 73** | 160 | 84 | 104 | 98 | 40 | 86 | 4·5 | 2·4 | 9·1 | 31·6 | 8·7 | 7·3 | 0·8 | 0·7 | 7·8 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 74** | 220 | 96 | 115 | 110 | 40 | 98 | 4·5 | 3·4 | 12·6 | 39·5 | 6·7 | 6·2 | 0·85 | 0·7 | 6·3 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0428 75** | 310 | 106 | 123 | 115 | 50 | 100 | 5·2 | 3·8 | 14·2 | 54·9 | 7·3 | 6·2 | 0·85 | 0·7 | 8·2 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 2 |
| **0428 77** | 630 | 126 | 126 | 141 | 90 | 105 | 6·5 | 8·0 | 25·5 | 63·3 | 4·2 | 2·6 | 0·9 | 0·8 | 3·5 | 1 to 4 | 1 to 4 | 4·5 | 1 to 16 | 1 to 25 | 6·5 | 3 |
| **Primary 230-400 V - 115-230 V secondary** | | | | | | | | | | | | | | | | | | | | | | |
| **0427 85** | 40 | 84 | 70 | 98 | 40 | 86 | 4·5 | 1·0 | 3·7 | 10·9 | 18·5 | 12·7 | 0·75 | 0·58 | 15·7 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0427 86** | 63 | 84 | 77 | 98 | 40 | 86 | 4·5 | 1·3 | 4·9 | 15·6 | 12·5 | 9·7 | 0·80 | 0·65 | 11·0 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0427 87** | 100 | 84 | 86 | 98 | 40 | 86 | 4·5 | 1·6 | 6·2 | 21·1 | 10·7 | 8·9 | 0·83 | 0·68 | 9·7 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0427 88** | 160 | 84 | 104 | 98 | 40 | 88 | 4·5 | 2·4 | 9·1 | 32·3 | 8·8 | 7·3 | 0·83 | 0·69 | 7·9 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0427 89** | 220 | 96 | 115 | 110 | 40 | 98 | 4·5 | 3·4 | 12·6 | 40·1 | 6·8 | 6·2 | 0·85 | 0·71 | 6·4 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 1 |
| **0427 90** | 310 | 106 | 123 | 115 | 50 | 100 | 5·2 | 3·8 | 14·2 | 54·0 | 7·3 | 6·2 | 0·85 | 0·7 | 8·2 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 2 |
| **0427 92** | 630 | 126 | 126 | 123 | 90 | 105 | 6·5 | 7·8 | 25·5 | 64·6 | 4·3 | 2·6 | 0·91 | 0·81 | 3·5 | 1 to 4 | 1 to 4 | 4·5 | 1 to 4 | 1 to 4 | 4·5 | 3 |

# how to calculate
## the rated power of a transformer

**In equipment containing control devices, the transformer power depends on the maximum power required at a given moment (inrush power), the permanent power, the voltage drop and power factor**

When determining the permissible instantaneous power (inrush power) required, the following factors should always be taken into account :

- two inrush currents cannot occur at the same time
- power factor cos φ equals 0·5
- at maximum, 80% of devices are supplied at the same time (this percentage can be calculated precisely for each device)

### ■ Determination of the inrush power

Where a simplified calculation of the power is required, the following formula can be used :

**P inrush = 0·8 (ΣPm + ΣPv + Pa)**

ΣPm : sum of all contactor steady state power levels (holding power)
ΣPv : sum of all power levels of indicators and LEDs(1)
Pa : inrush power of the largest contactor

**Example :**

A machine tool control cabinet comprising :

- 10 contactors for 4 kW motors, with a steady state power of 8 VA
- 2 contactors for 18·5 kW motor, with a steady state power of 20 VA
- 1 contactor for 45 kW motor, with a steady state power of 20 VA, and an inrush power of 250 VA cos φ 0·5
- 20 remote control relays, with a steady state power of 4 VA
- 30 signalling LEDs, with a consumption of 1 VA each

- ΣPm = 220 VA { (10 x 8 VA) + (2 x 20 VA) + (1 x 20 VA) + (20 x 4 VA) }
- ΣPv = 30 VA (30 x 1 VA)
- Pa = 250 VA

**P inrush = 0·8 (220 + 30 + 250) = 400 VA at cos φ 0·5**

### ■ Determination of the rated power of a transformer

For control transformers, in particular, simply start with an inrush power at cos φ 0·5 and read the size from the table below

| Rated power in VA IEC and CSA | Admissible instantaneous power in VA IEC/EN 61558-2-2 with cos φ of : | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 0·2 | 0·3 | 0·4 | 0·5 | 0·6 | 0·7 | 0·8 | 0·9 | 1 |
| 40 | 90 | 80 | 72 | 66 | 61 | 57 | 53 | 51 | 53 |
| 63 | 160 | 140 | 130 | 120 | 110 | 100 | 90 | 90 | 90 |
| 100 | 240 | 190 | 170 | 160 | 150 | 140 | 130 | 130 | 140 |
| 160 | 480 | 400 | 350 | 300 | 270 | 240 | 220 | 200 | 190 |
| 250 | 830 | 690 | 590 | 510 | 450 | 400 | 360 | 330 | 310 |
| 400 | 1 600 | 1 400 | 1 200 | 1 000 | 900 | 800 | 800 | 700 | 700 |
| 630 | 2 000 | 1 800 | 1 500 | 1 400 | 1 200 | 1 100 | 1 100 | 1 000 | 1 000 |
| 1 000 | 5 400 | 4 600 | 4 000 | 3 600 | 3 200 | 3 000 | 2 700 | 2 600 | 2 500 |
| 1 600 | 9 000 | 8 000 | 7 200 | 6 600 | 6 100 | 5 700 | 5 400 | 5 300 | 5 600 |
| 2 500 | 7 300 | 6 600 | 6 000 | 5 700 | 5 200 | 4 900 | 4 700 | 4 600 | 5 100 |
| 4 000 | 34 500 | 28 800 | 24 400 | 17 000 | 16 600 | 16 400 | 14 800 | 13 400 | 12 400 |

From the example above, an inrush of 460 VA at cos φ 0·5 gives a transformer size of 250 VA

### ■ Checking the selection

As a precaution, make the following checks on each of your devices :

- first calculate the sum of the steady state power for the coils and the LEDs powered at the same time
- then apply a coefficient : use either our hypothetical figure of 80% of devices at steady state power, or the actual calculation for your equipment
- the power of the chosen transformer shall be greater than or equal to the result of the calculation

(1) LED = Light Emitting Diode

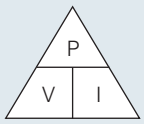
### ■ General information

Transformers take around 25 times the load at switch on

VA ÷ V = current in the winding
either PRIMARY or SECONDARY

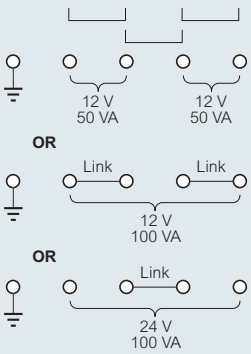
i.e. $\frac{300 \text{ VA}}{12 \text{ V}}$ = 25 A x 25 = 625 A

**The power triangle :**




### ■ Secondary power/voltage information

**Example : compact transformer 100 VA - 12/24 V Cat. No. 0428 42**




### ■ Identification of markings

**• Changing voltage**

Isolation transformer (functional insulation between primary and secondary)

Auto transformer (no insulation between primary and secondary)

**• Control circuit power supply**

Control transformer (functional insulation between primary and secondary)

**• Electric shock protection**

- Protection against direct and indirect contact by :

Safety transformers (reinforced insulation between primary and secondary, no-load voltage < 50 V)

- Protection against indirect contact by :

Circuit separation transformers (reinforced insulation between primary and secondary)

The transformer function(s) can either be defined by the equipment designer or can be imposed by installation guidelines or the equipment standard

**Definitions of electrical shock :**

- Electric shocks : physiopathological effect resulting from an electrical current passing through the human body
- Direct contact : persons coming into contact with live parts (connected to the mains)
- Indirect contact : persons coming into contact with grounding which is accidentally live following an insulation fault

# protection of transformers, primary and secondary circuits

## ■ Protection of transformers

In accordance with the IEC/EN 61558 standard, transformers must be protected against overload and short-circuit conditions which may occur during normal operation.

The standard does not specify the type or location of the protective device : it is the manufacturer's responsibility to choose the most suitable position, either on the primary or secondary side. The rating, type and location of the protective device are to be indicated on the device identification plate.

## ■ Protection of the primary and secondary circuits

### General

Circuits must be protected against overload and short-circuit conditions. Protection against overload is compulsory if the circuit is likely to be affected by an overload current. This protection can be installed at the supply source or end of the circuit.
Protection against a short-circuit is compulsory in all installations ; this protection has to be installed at the supply source of the circuit.

### Supply circuits (transformer primary)

The transformer is a device which cannot itself generate overload. Its supply circuit therefore only requires protection against a short-circuit. When a transformer is energised, a very high inrush current (around 25 In)[1] is produced for approximately 10 ms.
When protecting the circuit, both factors must be considered.

Legrand offers three possibilities :
- type aM cartridge fuses,
- type D MCBs (with magnetic tripping set at 12 In average)
- type C MCBs (with magnetic tripping set at 7 In average)

**Example : control transformer 630 VA - 230/24 V Cat. No. 0442 37**

In primary 2·74 A (VA ÷ V)
I inrush at power-up 68·5 A (25 x 2·74 A)

Protection against a short-circuit can be provided by :
- type aM 6 A cartridge fuse
- type D 6 A MCBs
- type C 13 A MCBs - (16 A nearest UK)

## ■ Primary protection

**Minimum protection rating for primary supply of the transformer :**

| Power (VA) | 230 V single-phase | | | 400 V single-phase | | | 400 V three-phase | | |
|---|---|---|---|---|---|---|---|---|---|
| | aM fuse | C MCB | D MCB | aM fuse | C MCB | D MCB | aM fuse | C MCB | D MCB |
| **40** | 0·5 | 1 | | 0·25 | 1 | | | | |
| **50** | 1 | 1 | 1 | 0·5 | 1 | | | | |
| **63** | 1 | 2 | 1 | 0·5 | 1 | | | | |
| **100** | 1 | 3 | 1 | 1 | 2 | 1 | | | |
| **150** | 2 | 6 | 2 | 1 | 3 | 1 | | | |
| **160** | 2 | 6 | 2 | 1 | 3 | 1 | 1 | | |
| **200** | 2 | 6 | 3 | 1 | 3 | 2 | | | |
| **250** | 2 | 6 | 3 | 1 | 6 | 2 | 1 | | |
| **300** | 4 | 10 | 6 | 2 | 6 | 2 | | | |
| **400** | 4 | 10 | 6 | 2 | 6 | 2 | 2 | | |
| **500** | 6 | 16 | 6 | 4 | 10 | 3 | | | |
| **630** | 6 | 16 | 6 | 4 | 10 | 3 | 2 | 6 | 2 |
| **750** | 8 | 16 | 10 | 6 | 10 | 6 | 2 | 6 | 3 |
| **1 000** | 10 | 20 | 10 | 6 | 16 | 6 | 4 | 10 | 3 |
| **1 250** | 10 | 25 | 16 | 6 | 20 | 10 | 4 | 10 | 6 |
| **1 500** | 10 | 32 | 16 | 10 | 20 | 10 | 4 | 16 | 6 |
| **1 600** | 10 | 32 | 16 | 10 | 20 | 10 | 6 | 16 | 6 |
| **2 000** | 12 | 40 | 16 | 10 | 25 | 10 | | | |
| **2 500** | 16 | 50 | 20 | 10 | 32 | 16 | 6 | 20 | 10 |
| **3 000** | 16 | 50 | 32 | 12 | 40 | 20 | | | |
| **3 500** | 20 | 50 | 32 | 16 | 40 | 20 | | | |
| **4 000** | 20 | 80 | 32 | 16 | 50 | 20 | 10 | 32 | 16 |
| **5 000** | 25 | 100 | 40 | 16 | 63 | 25 | 12 | 32 | 16 |

These values are given for information only for transformers with inrush currents of around 25 In.

(1) In = nominal rating of circuit

## ■ Protection of the secondary circuit

The secondary circuit must be protected against overload and short-circuit conditions. For overload, check that the protection rating chosen is lower than or equal to the transformer secondary current. For short-circuit, ensure that a short-circuit occurring at the furthest point of the circuit will trigger the protective device within 5 seconds.

Legrand offers two possibilities :
- type gG cartridge fuses
- type C MCBs (with magnetic tripping set at 7 In average)

If the transformer only supplies a single circuit, and provided the calculations show perfect compatibility, transformer protection (if on secondary) and circuit protection can be one and the same. A single protective device performs both functions (see table of transformer protective devices).

If the transformer supplies several circuits, overload and short-circuit calculations must be performed for each individual circuit. To check that the device chosen is suitable, an approximate minimum short-circuit value can be obtained using the following formula.

## ■ Formula for determining the secondary protection rating

Calculate the minimum short-circuit at the furthest point on the circuit :

$$I\ c/c\ min. = \frac{Us}{\left(\frac{U^2 s}{P} \times \frac{U\ c/c\ \%}{100}\right) + \frac{2\rho l}{S}}$$

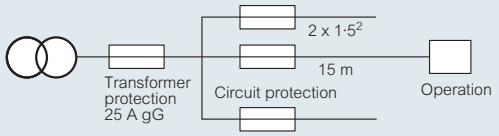
Us = transformer secondary voltage
P = transformer power
U c/c % = transformer short-circuit voltage
l = line length in m
S = line cross section in mm²
ρ copper = 0·027 Ω mm²/m

Choose the protection rating so as to obtain a cut-off time of 5 seconds max. for a current I c/c defined above :

type gG fuse : $In \leq \frac{I\ c/c\ min.}{4}$

type C MCB: $In \leq \frac{I\ c/c\ min.}{8}$

**Example : control transformer 630 VA - 230/24 V Cat. No. 0442 37**




$$I\ c/c\ min. = \frac{24}{\left(\frac{24^2}{630} \times \frac{3{\cdot}3}{100}\right) + \frac{2 \times 0{\cdot}027 \times 15}{1{\cdot}5}} = 44{\cdot}42\ A$$ = Use either :

$\frac{44{\cdot}42}{4} = 11{\cdot}10 \rightarrow$ gG fuse 10 A max. $\frac{44{\cdot}42}{8} = 5{\cdot}55 \rightarrow$ C type MCB 5 A max.

## ■ Secondary protection

**Ratings and types of protective devices to be used for single phase transformer protection according to VA rating and secondary voltage**

| Rated power (VA) IEC/CSA | 24 V | | | 48 V | | | 110 V | | | 230 V | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fuse | | Curve C MCB | Fuse | | Curve C MCB | Fuse | | Curve C MCB | Fuse | | Curve C MCB |
| | A | Type | | A | Type | | A | Type | | A | Type | |
| **40** | 2 | T | | 1 | T | | 400 m | T | | 200 m | T | |
| **50** | 2 | T | 2 | 1 | T | 1 | 500 m | T | 0·5 | 200 m | T | 0·2 |
| **63** | 3·15 | T | | 1·6 | T | | 630 m | T | | 315 m | T | |
| **100** | 4 | gG | 4 | 2 | gG | 2 | 1 | gG | 1 | 0·5 | gG | 0·5 |
| **150** | 6 | gG | 6 | 4 | gG | 4 | 2 | gG | 2 | 1 | gG | 1 |
| **160** | 8 | gG | 8 | 4 | gG | 4 | 2 | gG | 2 | 1 | gG | 1 |
| **200** | 8 | gG | 8 | 4 | gG | 4 | 2 | gG | 2 | 1 | gG | 1 |
| **250** | 10 | gG | 10 | 6 | gG | 6 | 2 | gG | 2 | 1 | gG | 1 |
| **300** | 12 | gG | 12 | 6 | gG | 6 | 4 | gG | 4 | 2 | gG | 2 |
| **400** | 16 | gG | 16 | 8 | gG | 8 | 4 | gG | 4 | 2 | gG | 2 |
| **500** | 20 | gG | 20 | 10 | gG | 10 | 6 | gG | 6 | 2 | gG | 2 |
| **630** | 25 | gG | 25 | 12 | gG | 12 | 6 | gG | 6 | 3 | gG | 3 |
| **750** | | gG | | 16 | gG | 16 | 8 | gG | 8 | 4 | gG | 4 |
| **1 000** | 40 | gG | 40 | 20 | gG | 20 | 8 | gG | 8 | 4 | gG | 4 |
| **1 250** | | gG | | | gG | | 12 | gG | 12 | | gG | |
| **1 500** | | gG | | | gG | | 16 | gG | 13 | 8 | gG | 8 |
| **1 600** | 63 | gG | 63 | 32 | gG | 32 | 16 | gG | 13 | 8 | gG | 8 |
| **2 000** | | gG | | | gG | | 20 | gG | 20 | 8 | gG | 8 |
| **2 500** | 100 | gG | 100 | 50 | gG | 50 | 20 | gG | 20 | 10 | gG | 10 |
| **3 000** | | gG | | | gG | | 32 | gG | 32 | | gG | |
| **3 500** | | gG | | | gG | | 32 | gG | 32 | | gG | |
| **4 000** | | gG | | | gG | | 32 | gG | 32 | 16 | gG | 16 |
| **5 000** | | gG | | | gG | | 50 | gG | 50 | | gG | |

# filtered power supplies
## open type single phase

0470 23

0470 24

*Dimensions and technical information (opposite and p. 113)*

Filtered power supplies for PLCs and other equipment requiring a voltage of 12 V DC or 24 V DC

Include :
- twin output terminals for ease of connection
- safety transformer with interference filtration
- fuse protection on output
- green LED output voltage indicator
- capacitor in filtered range

Supplied with a connection link for quick connection between - and ⏚ up to 15 A

Fixing options :
- clip directly to DIN rail up to 24 W
- clip on or screw fixing up to 120 W
- screw fixing only above 120 W

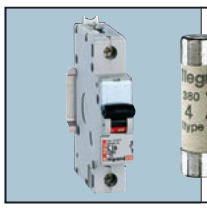
### Single phase filtered

**12 V⎓ output**
230-400 V ± 15 V∿ (input) / 12 V⎓ (output)

| Pack | Cat. Nos. | Power (W) | Current rating (A) | Terminal capacity (mm²) Flexible cable Input | Output |
|---|---|---|---|---|---|
| 1 | 0470 01 | 12 | 1 | 6 | 6 |
| 1 | 0470 02 | 30 | 2·5 | 6 | 6 |
| 1 | 0470 03 | 60 | 5 | 6 | 6 |
| 1 | 0470 04 | 120 | 10 | 6 | 6 |

**24 V⎓ output**
230-400 V ± 15 V∿ (input) / 24 V⎓ (output)

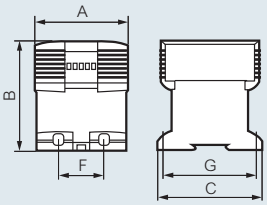
| Pack | Cat. Nos. | Power (W) | Current rating (A) | Terminal capacity (mm²) Flexible cable Input | Output |
|---|---|---|---|---|---|
| 1 | 0470 20 | 12 | 0·5 | 6 | 6 |
| 1 | 0470 21 | 24 | 1 | 6 | 6 |
| 1 | 0470 22 | 60 | 2·5 | 6 | 6 |
| 1 | 0470 23 | 120 | 5 | 6 | 6 |
| 1 | 0470 24 | 240 | 10 | 6 | 6 |
| 1 | 0470 25 | 360 | 15 | 6 | 6 |



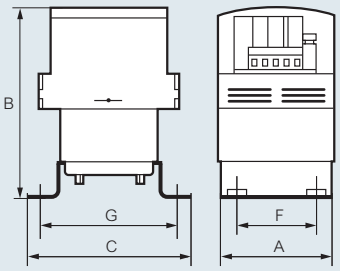
**For MCBs see p. 79**
**For fuses see p. 91**

filtered power supplies
open type single phase

## Dimensions




Cat. Nos. 0470 01/02/03 and 0470 20/21/22/23




Cat. Nos. 0470 04/24/25

| Cat. Nos. | A (mm) Width | B (mm) Depth | C (mm) Height | F x G (mm) Fixing ctrs | Ø (mm) | Weight (Kg) |
|---|---|---|---|---|---|---|
| 0470 01 | 68 | 98 | 88 | DIN ⎍ | – | 1·00 |
| 0470 02 | 93 | 121 | 105 | DIN ⎍ | 4·6 | 2·45 |
| 0470 03 | 105 | 135 | 115 | DIN ⎍ | 4·6 | 3·60 |
| 0470 04 | 126 | 186 | 175 | 75 x 150 | 5·5 | 6·35 |
| 0470 20 | 68 | 98 | 88 | DIN ⎍ | – | 1·00 |
| 0470 21 | 68 | 98 | 88 | DIN ⎍ | – | 1·00 |
| 0470 22 | 93 | 121 | 105 | DIN ⎍ | 4·6 | 2·45 |
| 0470 23 | 105 | 135 | 115 | DIN ⎍ | 4·6 | 3·60 |
| 0470 24 | 126 | 186 | 175 | 75 x 150 | 5·5 | 6·40 |
| 0470 25 | 126 | 206 | 175 | 75 x 150 | 5·5 | 7·60 |

## Technical information

Conform to IEC/EN 61558-2-6, UL 60950
CAN/CSA C22.2 N° 60 950.00

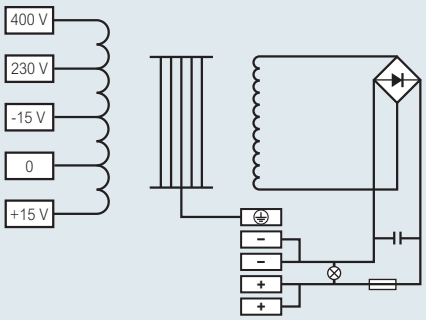
Products are compatible with EN 61131-2, EN 60204 and EN 60439-1 apparatus

Input voltage : 230/400 V∿ ±15 V single phase 50/60 Hz - Class I
Output voltage : 12 V⎓ or 24 V⎓
Insulation voltage : Input/Output 4 510 V
Input/Earth 2 260 V
Output/Earth 500 V
Max. ambient temperature without derating : 60 °C
Ripple factor : <3 %
Cooling by natural convection
Integral fuse protection on output
Can be fixed to symmetrical rail ⎍ 7·5 mm or 15 mm depth EN 60715
Screw fix only Cat. Nos. 0470 04/24 and 25
Screw fix or clip on to DIN rail Cat. Nos. 0470 02/03/22 and 23
Supplied with a connection link for quick connection between terminals and earth

**Note :** To conform to UL, product must be mounted in the vertical position (mounting against support) for Class A ambient temperature rating 25 °C

## Operating diagram

Operating current up to 15 A



# filtered power supplies
## open type single phase (continued)

### ■ Circuit protection (double pole MCB)

| Single phase | | Input 230/400 V ±15 V | | | |
|---|---|---|---|---|---|
| I \ U | Protection | 12 V | | 24 V | |
| | | Internal | External | Internal | External |
| 0·5 A | Power supply | | | 0470 20 | |
| | MCB/Fuse | | | T 0·5 A L(1) | 0069 12 (1 A) |
| | Power supply | | | | |
| | MCB/Fuse | | | PTC | 0069 12 (1 A) |
| 1 A | Power supply | 0470 01 | | 0470 21 | |
| | MCB/Fuse | T 1 A L(1) | 0069 12 (1 A) | T 1 A L(1) | 0069 12 (1 A) |
| 2·5 A | Power supply | 0470 02 | | 0470 22 | |
| | MCB/Fuse | T 2·5 A L(1) | 0069 14 (3 A) | T 2·5 A L(1) | 0069 14 (3 A) |
| 5 A | Power supply | 0470 03 | | 0470 23 | |
| | MCB/Fuse | T 5 A L(1) | 0069 16 (6 A) | T 5 A L(1) | 0069 16 (16 A) |
| 10 A | Power supply | 0470 04 | | 0470 24 | |
| | MCB/Fuse | T 10 A L(1) | 0069 18 (10 A) | T 10 A L(1) | 0069 18 (10 A) |
| 15 A | Power supply | | | 0470 25 | |
| | MCB/Fuse | | | | 0069 20 (16 A) |

(1) T type fuse is a time delay fuse (5 x 20 mm)
(2) Filtered modular power supply
(3) Type gG fuse 10 x 38 mm

### ■ Primary fuse protection required for UL conformity

Supply 230 V : Use 250 V time delay HRC fuse
UL Category Code JDYX2

Supply 400 V : Use 500 V time delay HRC fuse
UL Category Code JDYX

| Secondary voltage | 12 V | | 24 V | |
|---|---|---|---|---|
| Primary voltage | 230 V∿ | 400 V∿ | 230 V∿ | 400 V∿ |
| Power supply | | | 0470 20 | |
| Fuse rating | | | 0·315 A T | 2/10 A |
| Power supply | 0470 01 | | 0470 21 | |
| Fuse rating | 0·315 A | 2/10 A | 0·4 A | 2/10 A |
| Power supply | 0470 02 | | 0470 22 | |
| Fuse rating | 0·8 A | 4/10 A | 1 A | 6/10 A |
| Power supply | 0470 03 | | 0470 23 | |
| Fuse rating | 1·6 A | 8/10 A | 2 A | 1 A |
| Power supply | 0470 04 | | 0470 24 | |
| Fuse rating | 3·15 A | $1^{1/2}$ A | 4 A | $2^{1/4}$ A |
| Power supply | | | 0470 25 | |
| Fuse rating | | | 6·3 A | 3 A |

### ■ Electrical characteristics

| Cat. Nos. | Voltage (V) | Current rating (A) | Weight (Kg) | Input under load 230 V (A) | Input under load 400 V (A) | Operating voltage | | | | No-load loss (W) | Total loss at nominal load 100 % (W) | Voltage drop (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | No-load (V) | Underload (V) | With 100 mA load and input voltage +10% | With nominal load input voltage –15% | | | |
| **Output 12 V** | | | | | | | | | | | | |
| **0470 01** | 12 | 1 | 1 | 0·12 | 0·06 | 14·4 | 11·7 | 15·5 | 10·3 | 4·4 | 7·3 | 23·5 |
| **0470 02** | 12 | 2·5 | 2·45 | 0·33 | 0·19 | 13·9 | 11·6 | 15·2 | 10·2 | 8·3 | 11·9 | 19·4 |
| **0470 03** | 12 | 5 | 3·6 | 0·60 | 0·34 | 14·1 | 12·1 | 15·5 | 10·5 | 11·4 | 17·1 | 17·2 |
| **0470 04** | 12 | 10 | 6·35 | 1·24 | 0·72 | 14·7 | 11·8 | 16·1 | 10·4 | 20·2 | 33·7 | 24·7 |
| **Output 24 V** | | | | | | | | | | | | |
| **0470 20** | 24 | 0·5 | 1 | 0·12 | 0·06 | 27·6 | 22·9 | 29·4 | 20·1 | 4·4 | 7·3 | 20·66 |
| **0470 21** | 24 | 1 | 1 | 0·18 | 0·10 | 29·0 | 22·8 | 31·2 | 20·2 | 4·4 | 10·3 | 27·03 |
| **0470 22** | 24 | 2·5 | 2·45 | 0·47 | 0·27 | 27·8 | 23·3 | 30·4 | 20·4 | 8·3 | 16·3 | 19·46 |
| **0470 23** | 24 | 5 | 3·6 | 0·88 | 0·51 | 27·5 | 23·2 | 30·2 | 20·3 | 11·4 | 25·4 | 18·68 |
| **0470 24** | 24 | 10 | 6·35 | 1·88 | 1·09 | 27·7 | 23·5 | 30·5 | 20·5 | 20 | 45·3 | 18·20 |
| **0470 25** | 24 | 15 | 7·6 | 2·53 | 1·46 | 27·5 | 23·2 | 30·2 | 20·2 | 23 | 54·7 | 18·70 |

# power contactors

0041 16

0041 47

A location on the device enables a supply busbar to run through (except 40 and 63 A)

0041 31

0040 78

0041 85

*Technical information (p. 115)*
*Dimensions (p. 117)*

Conform to EN 61095
Power contactors have a handle covered with a blanking plate
Stop or start override without automatic return is possible (use tool)

## Power contactors with 24 V∿ coil

**Double pole (L + N) - 250 V∿**

24 V∿ coil

| Pack | Cat. Nos. | I max. | Type of contact | Number of 17·5 mm modules |
|---|---|---|---|---|
| 1 | 0041 14 | 16 A | N/C + N/O | 1 |
| 1 | 0041 16 | 25 A | 2 N/O | 1 |

## Power contactors with 230 V∿ coil

**Double pole (L + N) - 250 V∿**

230 V∿ coil

| Pack | Cat. Nos. | I max. | Type of contact | Number of 17·5 mm modules |
|---|---|---|---|---|
| 4 | 0041 26 | 16 A | N/C + N/O | 1 |
| 4 | 0041 47 | 25 A | 2 N/O | 1 |
| 1 | 0041 29 | 25 A | 2 N/C | 1 |
| 1 | 0040 68 | 40 A | 2 N/O | 2 |
| 1 | 0040 75 | 63 A | 2 N/O | 2 |

**Triple pole - 400 V∿**

230 V∿ coil

| Pack | Cat. Nos. | I max. | Type of contact | Number of 17·5 mm modules |
|---|---|---|---|---|
| 1 | 0040 69 | 40 A | 3 N/O | 3 |
| 1 | 0040 77 | 63 A | 3 N/O | 3 |

## Power contactors with 230 V∿ coil (continued)

**Four pole - 400 V∿**

230 V∿ coil

| Pack | Cat. Nos. | I max. | Type of contact | Number of 17·5 mm modules |
|---|---|---|---|---|
| 5 | 0041 31 | 25 A | 4 N/O | 2 |
| 1 | 0041 32 | 25 A | 4 N/C | 2 |
| 1 | 0041 33 | 25 A | 2 N/O + 2 N/C | 2 |
| 1 | 0040 70 | 40 A | 4 N/O | 3 |
| 1 | 0040 78 | 63 A | 4 N/O | 3 |

## Signalling auxiliaries for contactors

Auxiliary changeover switch
Used to indicate the position status of the contacts on the product to which it is associated

**For 1 module contactors 16 A to 25 A**

Maximum 2 auxiliary devices per contactor
Fitted on left-hand side of contactor

| Pack | Cat. Nos. | I max. | Voltage | Changeover switch | Number of modules |
|---|---|---|---|---|---|
| 1 | 0041 85 | 5 A | 250 V∿ | N/C + N/O | 0·5 |

**For 2 module contactors 25 A**

Maximum 2 auxiliary devices per contactor
Fitted on left-hand side of contactor

| Pack | Cat. Nos. | I max. | Voltage | Changeover switch | Number of modules |
|---|---|---|---|---|---|
| 1 | 0041 83 | 5 A | 250 V∿ | N/C + N/O | 0·5 |

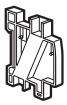
**For 40 and 63 A contactors**

Maximum 1 auxiliary device per contactor
Fitted on left-hand side of contactor

| Pack | Cat. Nos. | I max. | Voltage | Changeover switch | Number of modules |
|---|---|---|---|---|---|
| 1 | 0040 85 | 5 A | 250 V∿ | N/C + N/O | 0·5 |

## Accessory

| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0044 40 | Spacing unit 0·5 module<br>To be placed between every 2 contactors to aid cooling |



## Technical characteristics

- Rated impulsive resistant current (Uimp) : 4 kV
- Mechanical endurance (No. of operating cycles) : $10^6$
- Temperature :
  - Operating : - 25 °C to + 40 °C
  - Storage : - 40 °C to +70 °C

**Protection of contactors against short circuits conforming to IEC EN 61095, conditional short circuit current Iq = 6 kA**

Iq = 6 kA for 16 to 25 A contactors
Iq = 3 kA for 40 to 63 A contactors
MCB or gG fuse, rating :

- ≤ 16 A for 16 A rating
- ≤ 25 A for 25 A rating
- ≤ 40 A for 40 A rating
- ≤ 63 A for 63 A rating

## Choice of contactor rating

For a lifetime of 10 years with 200 days of annual use

## Heating (AC.7a)

Maximum power in kW according to the number of operations per day

| Operations per day | 16 A | 25 A | 40 A | 63 A |
|---|---|---|---|---|
| **230 V/single phase network** | | | | |
| ≤ 50 | 3·5 | 4·5 | 9 | 14 |
| 75 | 3 | 3·5 | 7·5 | 12 |
| 100 | 2·5 | 3 | 6 | 9·5 |
| 250 | 1·5 | 2 | 4 | 6 |
| 500 | 1 | 1 | 2·5 | 4·5 |
| **400 V/3 phase network** | | | | |
| ≤ 50 | 10 | 13 | 26 | 41 |
| 75 | 9 | 11 | 22 | 35 |
| 100 | 7 | 9 | 17 | 26 |
| 250 | 3 | 4 | 8 | 13 |
| 500 | 2 | 3 | 6 | 9 |

## Lighting

Maximum number of lamps, tubes, according to their unit power requirement (W) for 230 V single phase

### • Incandescent and halogen lamps

| Unit power (W) | 40 W | 60 W | 75 W | 100 W | 150 W | 200 W | 300 W | 500 W | 1 000 W |
|---|---|---|---|---|---|---|---|---|---|
| 16 A | 40 | 32 | 27 | 21 | 13 | 11 | 8 | 4 | 2 |
| 25 A | 47 | 37 | 30 | 23 | 15 | 12 | 8 | 5 | 2 |
| 40 A | 118 | 87 | 72 | 52 | 36 | 26 | 18 | 11 | 7 |
| 63 A | 156 | 115 | 96 | 71 | 48 | 35 | 25 | 15 | 8 |

### • Halogen lamps with 12 V ferromagnetic transformer

| Unit power (W) | 20 W | 50 W | 75 W | 100 W | 150 W |
|---|---|---|---|---|---|
| 16 A | 16 | 11 | 9 | 7 | 4 |
| 25 A | 19 | 12 | 10 | 8 | 5 |
| 40 A | 45 | 29 | 25 | 20 | 15 |
| 63 A | 64 | 42 | 34 | 28 | 19 |

### • Fluorescent tubes with starter

| Unit power (W) | | 15 W | 18 W | 20 W | 36 W | 40 W | 58 W | 65 W | 115 W | 140 W |
|---|---|---|---|---|---|---|---|---|---|---|
| Single non compensated | 16 A | 24 | 24 | 24 | 22 | 22 | 15 | 15 | 8 | 8 |
| | 25 A | 28 | 28 | 28 | 26 | 26 | 17 | 17 | 10 | 10 |
| | 40 A | 75 | 75 | 75 | 65 | 65 | 40 | 40 | 22 | 22 |
| | 63 A | 105 | 105 | 105 | 93 | 93 | 58 | 58 | 33 | 33 |
| Single parallel compensated | 16 A | 16 | 16 | 16 | 16 | 16 | 11 | 11 | 6 | 6 |
| | 25 A | 18 | 18 | 18 | 18 | 18 | 13 | 13 | 6 | 6 |
| | 40 A | 40 | 40 | 40 | 40 | 40 | 30 | 30 | 14 | 14 |
| | 63 A | 60 | 60 | 60 | 60 | 60 | 43 | 43 | 20 | 20 |
| Double serial compensated | 16 A | – | 32 | 32 | 18 | 18 | 11 | 11 | 7 | 7 |
| | 25 A | – | 38 | 38 | 21 | 21 | 13 | 13 | 9 | 9 |
| | 40 A | – | 85 | 85 | 45 | 45 | 29 | 29 | 18 | 18 |
| | 63 A | – | 120 | 120 | 65 | 65 | 40 | 40 | 24 | 24 |

| Unit power (W) | 16 A | 25 A | 40 A | 63 A | 100 A |
|---|---|---|---|---|---|
| 4 x 18 W | 16 | 19 | 48 | 67 | – |

## Motors (Ac.7b)

Maximum power in Kw

| | 16 A | 25 A | 40 A | 63 A |
|---|---|---|---|---|
| Single phase 230 V motor with capacitor | 0·9 | 1·1 | 2·5 | 4 |
| 3 phase 400 V motor | 2·7 | 3·3 | 7·5 | 12 |

**Other load types please contact us**

## Connection (mm²)

| Type of wire | Rated current ≤ 25 A | Rated current 40 and 63 A |
|---|---|---|
| Stranded | 1 x 6 or 2 x 4 | 1 x 25 or 2 x 10 |
| Flexible | 1 x 6 or 2 x 4 | 1 x 25 or 2 x 10 |
| Flexible with single ferrule | 1 x 4 | 1 x 16 |
| Flexible with double ferrule | 2 x 2·5 | 2 x 16 |

## Control consumption

| | 24 V | 230 V | | |
|---|---|---|---|---|
| | 1 module | 1 module | 2 modules | 3 modules |
| Inrush | 12 VA | 12 VA | 35 VA | 45 VA |
| Holding | 3 VA | 3 VA | 3 VA | 7 VA |

To protect contactors against short circuits (according to IEC 61095, conditional short circuit Iq = 3 kA), it is advisable to use :

| Contactor rating (A) | MCB or use Gg or aM rating (A) |
|---|---|
| 16 / 25 | ≤ 20 |
| 40 | ≤ 40 |
| 63 | ≤ 63 |

Derating of contactors mounted in a modular enclosure if the interior temperature is > 40 °C

| Rated current of contactor | 40 °C | 50 °C | 60 °C | 70 °C |
|---|---|---|---|---|
| Ie = 16 A | 16 A | 14 A | 12 A | 10 A |
| Ie = 25 A | 25 A | 22 A | 20 A | 18 A |
| Ie = 40 A | 40 A | 36 A | 32 A | 29 A |
| Ie = 63 A | 63 A | 57 A | 50 A | 45 A |

Insert a spacer module every 2 contactors Cat. No. 0044 40

Frequency 50/60 Hz
Rated impulses with stand voltage (Uimp) : 4 kV
Mechanical endurance (No. of operating cycles) : $10^6$

| Power contactors | 16 A and 25 A | | |
|---|---|---|---|
| Control voltage | 24 VA | 230 VA | |
| Nominal current | 16 - 25 A | 16 - 25 A | 16 - 25 A |
| Type of contact | N/O + N/C<br>2 N/O | N/O + N/C<br>2 N/O<br>2 N/C | 2 N/O + 2 N/C<br>4 N/O<br>4 N/C |
| Number of modules | 1 | 1 | 2 |
| Holding | 200 mA | 20 mA | 20 mA |
| Inrush | 970 mA | 90 mA | 200 mA |

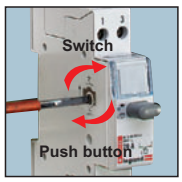
| Power contactors | 40 A and 63 A | |
|---|---|---|
| Control voltage | 230 VA | 230 VA |
| Nominal current | 40 and 63 A | 40 and 63 A |
| Type of contact | 2 N/O | 3 N/O<br>4 N/O |
| Number of modules | 2 | 3 |
| Holding | 15 mA | 30 mA |
| Inrush | 150 mA | 200 mA |

### Max. connection cross section in mm²

| Type of conductor | Ratings ≤ 25 A | Ratings 40 and 63 A |
|---|---|---|
| Rigid | 1 x $6^2$ or 2 x $2{\cdot}5^2$ | 1 x $25^2$ or 2 x $10^2$ |
| Flexible | 1 x $6^2$ or 2 x $2{\cdot}5^2$ | 1 x $25^2$ or 2 x $10^2$ |
| Flexible with single ferrule | 1 x $6^2$ | 1 x $16^2$ |
| Flexible with double ferrule | 2 x $4^2$ | 2 x $16^2$ |

# push buttons/control switches and indicators

0044 68




Push buttons transformed into switches

0044 88

0031 43

*Dimensions (p. 117)*

Conform to IEC 60669-1
Breaking capacity AC 12 A according to IEC 60947-5-1
Supplied in push button position
Can be converted to control switches
Accepts insertion of supply busbars
IP 2x
Class II ⧈

| Pack | Cat. Nos. | Push buttons/control switches 20 A - 250 V∿ | Number of 17·5 mm modules |
|---|---|---|---|
| | | **Single function** | |
| 10 | 0044 53 | 1 N/O | 1 |
| 10 | 0044 54 | 1 N/C | 1 |
| 10 | 0044 55 | 2 N/O | 1 |
| 10 | 0044 58 | 1 N/O + 1 N/C | 1 |
| | | **Dual function + indicator** | |
| 10 | 0044 63 | 1 N/O + green indicator<br>Supplied with 230 V∿ E10 lamp | 1 |
| 10 | 0044 64 | 1 N/C + red indicator[1]<br>Supplied with 230 V∿ E10 lamp | 1 |
| 10 | 0044 68 | 1 N/O (green) + 1 N/C (red) | 1 |

## Indicators - 250 V∿

Supplied with replaceable diffuser and lamp E10 - 230 V∿
Allow supply busbar to be inserted

| | | | Number of 17·5 mm modules |
|---|---|---|---|
| | | **Single** | |
| 10 | 0044 83 | Green | 1 |
| 10 | 0044 84 | Red | 1 |
| 10 | 0044 85 | Orange | 1 |
| 10 | 0044 86 | Blue | 1 |
| 10 | 0044 87 | Colourless | 1 |
| | | **Double** | |
| 10 | 0044 88 | Green + red | 1 |
| | | **Three phase voltage indicator**<br>Supplied with 230/400 V∿<br>non-replacement lamps | |
| 2 | 0031 43 | 3 colourless neon lamps | 0·5 |

## Accessories

| | | |
|---|---|---|
| | | **Replacement lamps E10 - 1·2 W** |
| 10 | 0044 32 | 8/12 V incandescent |
| 10 | 0044 33 | 24 V incandescent |
| 10 | 0044 36 | 230 V neon |
| 10 | 0044 37 | 230 V fluo for blue and green diffusers |

# transformers and buzzers

4130 91

4130 98

*Technical information and dimensions (p. 117)*

In the event of an overload, switch off the power supply and allow the transformer to cool down before switching on again
Wall or rail ⊔ mounted

## Bell transformers

Conform to IEC/EN 61558-2-8
Supplied with label holder
Protected against overloads and short circuits
Power to 8 V-12 V or 24 V access control devices such as bells and chimes
Possibility for supply busbars to run through (Cat. Nos. 4130 90/91)

| Pack | Cat. Nos. | Secondary (V) | Rating (A) | Power (VA) | Number of 17·5 mm modules |
|---|---|---|---|---|---|
| | | **230 V / 8 V** | | | |
| 1 | 4130 90 (NEW) | 8 V∿ | 0·5 A | 4 VA | 2 |
| | | **230 V / 12 V - 8 V** | | | |
| 1 | 4130 91 | 12/8 V∿ | 0·66/1 A | 8 VA | 2 |
| | | **230 V / 24 V - 12 V** | | | |
| 1 | 4130 93 | 24/12 V∿ | 1/1·5 A | 24/18 VA | 4 |

## Safety transformers

Conform to IEC/EN 61558-2-6
Supplied with label holder
Protected against overloads and short circuits
Power to 12 V or 24 V devices such as modular power contactors, latching relays and signalling units

**230 V / 12 or 24 V**

| Pack | Cat. Nos. | P (VA) | No-load loss (W) | Voltage % drop Cos φ = 1 | Efficiency % Cos φ = 1 | Ucc (%) | I (A) primary loaded | Number of 17·5 mm modules |
|---|---|---|---|---|---|---|---|---|
| 1 | 4130 95 (NEW) | 16 | 2·5 | 34·6 | 60 | 27·5 | 0·10 | 4 |
| 1 | 4130 96 | 25 | 2·5 | 29 | 66 | 23·3 | 0·14 | 4 |
| 1 | 4130 97 | 40 | 4 | 17·9 | 68 | 14·4 | 0·22 | 5 |
| 1 | 4130 98 | 63 | 4 | 15·7 | 75 | 13·6 | 0·33 | 5 |

## Buzzers

50 Hz AC
Connection by screw terminals
Equipped with label holder
**Caution :** remove lamps from illuminated push buttons when used with Cat. No. 0041 11

| Pack | Cat. Nos. | Voltage (V ∿) | Power (VA) | Consum. (mA) | P [1] (dB) | Number of 17·5 mm modules |
|---|---|---|---|---|---|---|
| 5 | 0041 11 | 24 | 4 | 180 | 73 | 1 |
| 10 | 0041 13 | 230 | 4 | 21 | 73 | 1 |

(1) Acoustic power a 1 m

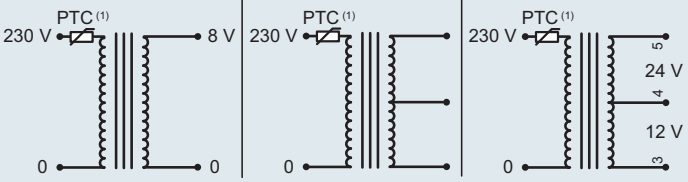
## ■ Operating principle

### Bell transformers

Safety isolating transformer with secondary voltage not permanently exceeding 24 V and for a non permanent usage
Power to 8 V-12 V or 24 V access control devices such as:
- bell
- chime
- door release
- optical electrical barrier

Also:
- flood detector
- temperature rise detector

Cat. No. 4130 90 | Cat. No. 4130 91 | Cat. No. 4130 93

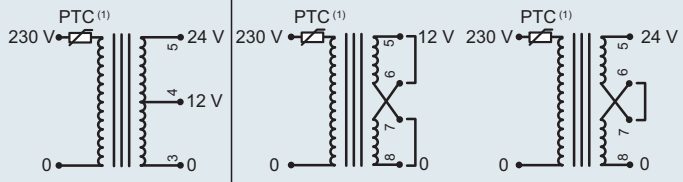



### Safety transformers

Designed to protect people from electric shocks by using extra low voltage (ELV $U_{sec} \leq 50$ V)
Power to 12 or 24 V devices such as:
- relay
- modular power contactor
- signalling unit
- latching relay

Cat. Nos. 4130 95/96 | Cat. Nos. 4130 97/98

Secondary 12V parallel coupling | Secondary 24V serial coupling




Connection busbars supplied with the transformer

(1) PTC refer to general characteristics

## ■ Fixings

Wall or DIN rail ⊔ 7·5 or 15 mm(2) depth for 4 module units
Rail DIN ⊔ 7·5 or 15 mm(2) depth for 2 and 5 module units

(2) Remove with tool

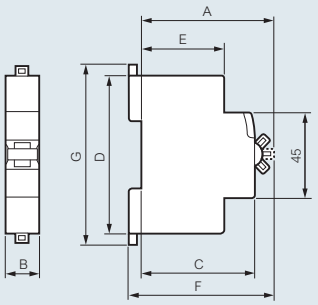
## ■ Connection

| | Primary flexible or rigid | Secondary flexible or rigid |
|---|---|---|
| 🔔 | 1 to 4 mm² | 1 to 4 mm² |
| | | |

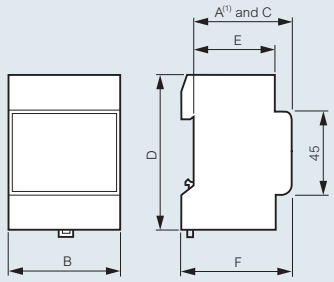
## ■ Equivalence chart

| Old transformer range | | New transformer range | |
|---|---|---|---|
| Cat. Nos. | Description | Cat. Nos. | Description |
| 0042 20 | Bell transformer 4 VA | 4130 90 | Bell transformer 4 VA |
| 0042 25 | Bell transformer 8 VA | 4130 91 | Bell transformer 8 VA |
| 0042 37 | Bell transformer 24/18 VA | 4130 93 | Bell transformer 24/18 VA |
| 0042 51 | Safety transformer 16 VA | 4130 95 | Safety transformer 16 VA |
| 0042 52 | Safety transformer 25 VA | 4130 96 | Safety transformer 25 VA |
| 0042 53 | Safety transformer 40 VA | 4130 97 | Safety transformer 40 VA |
| 0042 54 | Safety transformer 63 VA | 4130 98 | Safety transformer 63 VA |

## ■ Dimensions




| Description | Dimension (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | | | | C | D | E | F | G |
| | | 1-pole | 2-pole | 3-pole | 4-pole | | | | | |
| Isolating switches 20 - 32 A | 68 | 17·7 | 17·7 | 35·6 | 53·4 | 60 | 83 | 44 | 74 | 94 |
| 63 - 100 - 125 A | 68 | 17·7 | 35·6 | 53·4 | 71·2 | 60 | 83 | 44 | 74 | 94 |
| Changeover switches Cat. Nos. 0043 82/85 | 68 | 17·7 | | | | 60 | 83 | 44 | 74 | 94 |
| Cat. No. 0043 83 | 68 | 35·6 | | | | 60 | 83 | 44 | 74 | 94 |
| Push buttons/control switches and indicators | 68 | 17·7 | | | | 60 | 83 | 44 | 74 | 94 |
| Contactors ≤20 A | 62 | 17·8 | 17·8 | 35·6 | 35·6 | 60 | 83 | 44 | 67·5 | 94 |
| Buzzers | 60 | 17·5 | | | | 60 | 76 | 44 | 66 | 85 |

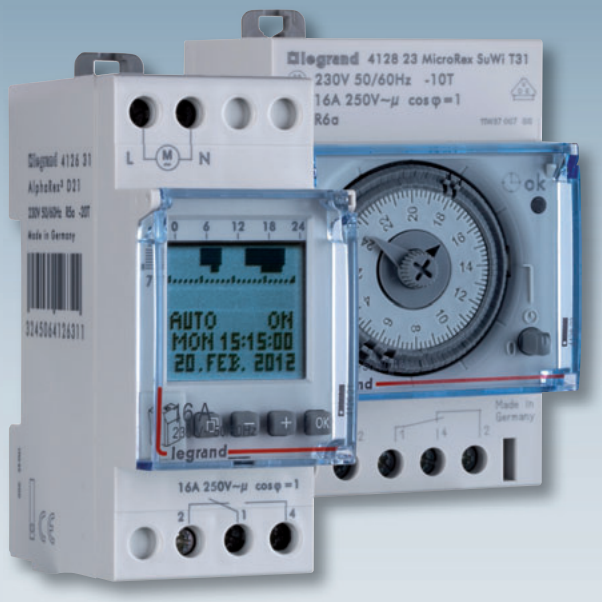



| Description | | Dimension (mm) | | | | | |
|---|---|---|---|---|---|---|---|
| | | A(1) | B | C | D | E | F |
| Contactors 40 and 63 A - 2 modules | | 62 | 35·6 | 60 | 83 | 44 | 68 |
| Contactors 40 and 63 A - 3 modules | | 62 | 53·4 | 60 | 83 | 44 | 68 |
| Auxiliaries for contactors 20 A | | 60 | 9 | 60 | 83 | 44 | 66 |
| Transformers | Cat. Nos. 4130 90/91 | 60 | 36 | 60 | 84 | 44 | 66 |
| 🔔 | Cat. No. 4130 93 | 60 | 72 | 60 | 84 | 44 | 66 |
| | Cat. Nos. 4130 95/96 | 60 | 72 | 60 | 84 | 44 | 66 |
| | Cat. Nos. 4130 97/98 | 60 | 89 | 60 | 95 | 44 | 66 |

(1) Maximum projection

# Time switches... move with the times

**Legrand's one and two channel time switches are available in digital and analogue versions, ranging from NEW AlphaRex³ programmable switches with 0.1 second clock precision, to a more simplistic analogue technology with basic switching functions.**




## NEW AlphaRex³... the next generation of innovation

AlphaRex³ is the latest addition to the digital time switches range. Available in astronomical light control and standard versions, each with PC programmable functionality.

- **0.1 second clock precision** – unbeatable accuracy
- **Zero crossing switching** – reduces stress on the relay / increases longevity of time switch and lamp
- **Expanded offset programming** - ideal for outdoor signage and street lighting applications
- **Expanded cycle functions** - for non-lighting applications such as water features and water irrigation
- **Preset time and date** - no adjustment needed
- **High torque terminal blocks** - for enhanced safety
- **Pin code for weekly devices** - preventing unauthorised programming
- **Programme back-up via data key** – one key fits all devices

## Programming made easy

AlphaRex³ can be programmed for standard applications using the push buttons on the device. More expert programming can be achieved either on site or remotely using a PC, data key and Legrand's patented programming software.

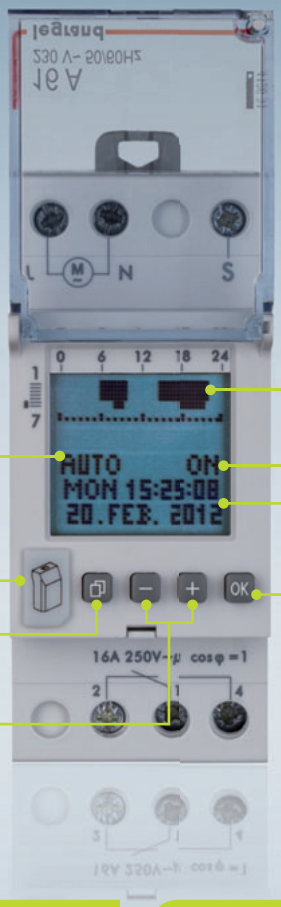
energy saving

# AlphaRex³ at a glance

Weekly time switch
1 + 2 channel
DIN rail mountable

Weekly time switch
with astronomical
functions
1 + 2 channel
DIN rail mountable

Yearly time switch
1 + 2 channel
DIN rail mountable




Operating mode

Data key

'MENU' - Launches the programming mode

'+ / -' - Selects program menus

Switching time overview

Switching state

Current time and date

'OK' – Confirms the selected program point

# Also available

## DIGITAL

MicroRex digital
time switches
DIN rail mountable
see p. 123

MaxiRex digital
time switches
Surface mounting
see p. 124

## ANALOGUE

MicroRex analogue
time switches
DIN rail mountable
see p. 125

MaxiRex & EconoRex
analogue time switches
Surface / panel
mounting
see p. 126

## LIGHTING CONTROL

Light sensitive switch
For lighting control
see p. 127

Time lag switch
For lighting control
see p. 127

legrand

# AlphaRex³ programmable time switches

NEW

**digital for rail**

4126 31

4128 72

4128 73

*Technical information (p. 121)*

Conform to EN 60730-1 and EN 60730-2-7
Supply voltage : 230 V∿ 50/60 Hz
Mount on DIN rail EN 60715
Text based programming. Programmable in 15 languages
Programme directly on time switch keypad or remotely via a PC with Legrand AlphaSoft software, USB adaptor and data key
Data key enables programmes to be transferred from one unit to another and for programmes to be stored
EEPROM memory keeps programmes stored indefinitely
Pin code facility to protect programmes from unauthorised changes
Time switch accuracy : ±0·1 second per day
Zero-crossing switching
Automatic summer/winter time correction
5 years running reserve
Back lit graphic display and keypad
Operating temperature : –20 °C to +55 °C
Protection : IP 20
Switching increment : 1 minute
Shortest switching time : 1 minute

| Pack | Cat. Nos. | AlphaRex³ | No. of 17·5 mm modules |
|---|---|---|---|
| | | Weekly time switches<br>24h / 7 day programme time<br>Particularly suited to irregular cycles (e.g. security installations and industrial installations)<br>Random function to simulate presence - programmed switching cycles are shifted at random with a range of ±15 minutes<br>**Additional functions :**<br>Operating hours counter (for max. 65,535 hours)<br>1 hour test<br>Cycle function<br>Holiday programme | |
| 1 | 4126 31 | **AlphaRex D21 230 V**<br>24 hr / 7 day single channel<br>1 x 16 A output<br>56 programmes | 2 |
| 1 | 4126 41 | **AlphaRex D22 230 V**<br>24 hr / 7 day two channel<br>2 x 16 A outputs<br>2 x 28 programmes | 2 |

**24 V and 120 V time switches available on request. Contact us on +44 (0) 845 605 4333**

| Pack | Cat. Nos. | Accessories |
|---|---|---|
| 1 | 4128 72 | **Programming transfer key**<br>Enables programmes to be stored and / or transferred from one time switch to another when used with the programming software kit Cat. No. 4128 73<br>Data key can be stored directly within the time switch |
| 1 | 4128 73 | **Programming software kit**<br>Create and read programmes remotely via a PC<br>Transfer programmes via transfer key Cat. No. 4128 72 to time switches<br>Kit comprises : AlphaSoft 4·0 software, data loader and transfer key<br>Windows® (1) Vista compatible |

(1) Windows is a registered trademark of the Microsoft Corporation

# AlphaRex³ Astro programmable time switches

NEW

**light control – digital for rail**

4126 57

4128 72

4128 73

*Technical information (p. 122)*

Conform to EN 60730-1 and EN 60730-2-7
Supply voltage : 230 V∿ 50/60 Hz
Mount on DIN rail EN 60715
Text based programming. Programmable in 15 languages
Programme directly on time switch keypad or remotely via a PC with Legrand AlphaSoft software, USB adaptor and data key
Data key enables programmes to be transferred from one unit to another and for programmes to be stored
EEPROM memory keeps programmes stored indefinitely
Pin code facility to protect programmes from unauthorised changes
Time switch accuracy : ±0·1 second per day
Zero-crossing switching
Automatic summer/winter time correction
5 years running reserve
Back lit graphic display and keypad
Operating temperature : –20 °C to +55 °C
Protection : IP 20
Switching increment : 1 minute
Shortest switching time : 1 minute

| Pack | Cat. Nos. | AlphaRex³ Astro light control | No. of 17·5 mm modules |
|---|---|---|---|
| | | Weekly time switches<br>24h / 7 day programme time<br>Particularly suited to outdoor lighting and street signage applications<br>Enables the daily astronomical calculation of sunrise and sunset by inputting local position or coordinates (no need to install a light sensor)<br>Lights are switched ON and OFF according to sunrise and sunset times, and can be offset by up to ±120 minutes in relation to sunrise and sunset times<br>To save energy, it is also possible to programme an ON and OFF time at night<br>Time saving programming due to pre-set groups of days : Mon-Sun, Mon-Fri, or Sat-Sun and individual selection of days<br>Programmes are shown as a weekly matrix on the graphic display<br>**Additional functions :**<br>Operating hours counter (for max. 65,535 hours)<br>1 hour test<br>Holiday programme | |
| 1 | 4126 54 | **AlphaRex Astro D21 230 V**<br>24 hr / 7 day single channel<br>1 x 16 A output<br>56 programmes | 2 |
| 1 | 4126 57 | **AlphaRex Astro D22 230 V**<br>24 hr / 7 day two channel<br>2 x 16 A outputs<br>2 x 28 programmes | 2 |

**24 V and 120 V time switches available on request. Contact us on +44 (0) 845 605 4333**

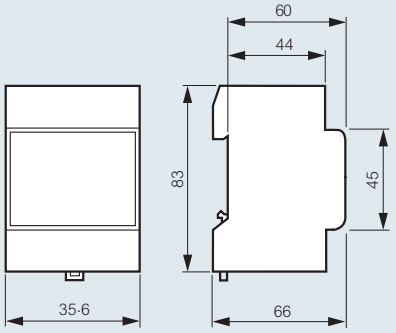
| Pack | Cat. Nos. | Accessories |
|---|---|---|
| 1 | 4128 72 | **Programming transfer key**<br>Enables programmes to be stored and / or transferred from one time switch to another when used with the programming software kit Cat. No. 4128 73<br>Data key can be stored directly within the time switch |
| 1 | 4128 73 | **Programming software kit**<br>Create and read programmes remotely via a PC<br>Transfer programmes via transfer key Cat. No. 4128 42 to time switches<br>Kit comprises : AlphaSoft 4·0 software, data loader and transfer key<br>Windows® (1) Vista compatible |

(1) Windows is a registered trademark of the Microsoft Corporation

# AlphaRex³ programmable time switches
digital for rail

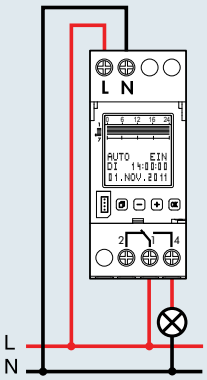
## ■ Dimensions (mm)

Cat. Nos. 4126 31/41

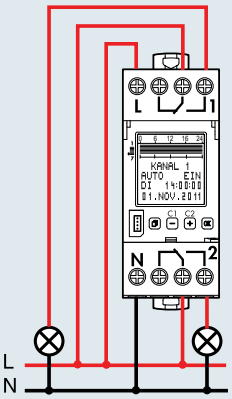



## ■ Wiring diagrams

Cat. No. 4126 31




Cat. No. 4126 41




## ■ Technical information

| Type<br>Cat. No. | AlphaRex³ D21<br>4126 31 | AlphaRex³ D22<br>4126 41 |
|---|---|---|
| Supply voltage | 230 V∿ | |
| Frequency | 50/60 Hz | |
| Programme | 24 hour or 7 day | |
| No. of channels | 1 | 2 |
| Effective power consumption | Approx 1 W | ca 1·5 W |
| Switching capacity : cos φ = 1 | 16 A 250 V∿ | |
| Contact | 1 changeover switch | 2 changeover switches |
| Parallel compensation | 600 W nax, 70µF | |
| Switching step | 1 minute | |
| Min. switching time | 1 minute | |
| Accuracy | ±0·1 seconds per day | |
| Terminal capacity | Single strand 1·5 to 4mm² | |
| Programmes | 56 | 28 per channel |
| Working reserve(1) | 6 years | |
| Battery reserve | 5 years | |
| Programme memory | EEPROM | |
| Summer/Winter time | Auto | |
| IP rating | IP 20 | |
| No. of 17·5 mm modules | 2 | |
| Operating temp. | –20 °C to +55 °C | |
| Storage temp. | –20 °C to +60 °C | |

(1) For time and date only

## ■ General information

**AlphaRex³ D21** Cat. No. 4126 31

- **Start-up :** after applying the supply voltage, the time switch starts automatically with the last selected function. The relay position is set by the current programme
- **Battery backup**
  - **Backlighting** not active
  - **Data key** READ/WRITE only via the menu

Select menu, back to main menu,
Hold down > 1s = operating display

OK Confirm selection or load parameters

- + Select menu options or set parameters

**AlphaRex³ D22** Cat. No. 4126 41

- **Start-up :** after applying the supply voltage, the time switch starts automatically with the last selected function. The relay position is set by the current programme
- **Battery backup**
  - **Backlighting** not active
  - **Data key** READ/WRITE only via the menu
- **For safety :** when the time switch is connected to the mains supply the contact should not be used on an isolated low voltage supply and when the time switch is connected to the isolated voltage supply the contact should not be used on the mains supply

Select menu, back to main menu,
Hold down > 1s = operating display

OK Confirm selection or load parameters

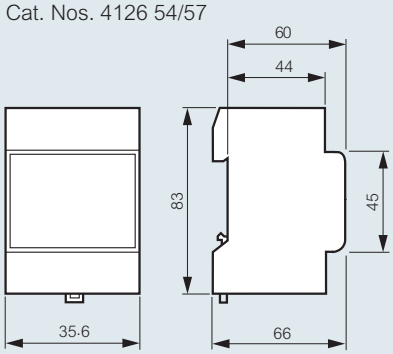
C1 C2
- +
- Select menu options or set parameters
- Channel selection

# AlphaRex³ Astro programmable time switches

**light control – digital for rail**

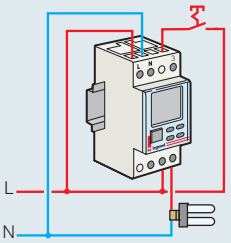
## ■ Dimensions (mm)

Cat. Nos. 4126 54/57

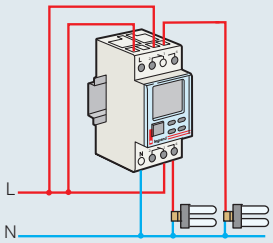



## ■ Wiring diagrams

Cat. No. 4126 54

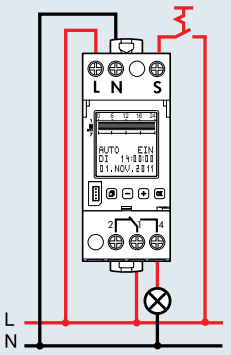



Cat. No. 4126 57

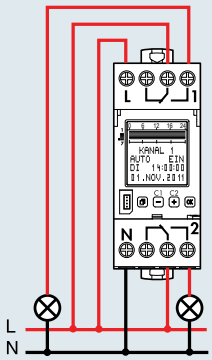



Output closing and breaking times are calculated based on the date, the actual time when the device was switched and on geographical coordinates of the actual location

Cat. No. 4126 54




Cat. No. 4126 57




## ■ Technical information

| Type<br>Cat. No. | AlphaRex³ Astro D21<br>4126 54 | AlphaRex³ Astro D22<br>4126 57 |
|---|---|---|
| **Supply voltage** | 230 V∿ | |
| **Frequency** | 50/60 Hz | |
| **Programme** | 24 hour or 7 day | |
| **No. of channels** | 1 | 2 |
| **Effective power consumption** | 1 W | 1·5 W |
| **Switching capacity : cos φ = 1** | 16 A 250 V∿ | |
| **Contact** | 1 changeover switch | 2 changeover switches |
| **Min. prog. settting** | 1 second | |
| **Accuracy** | ±0·1 seconds per day | |
| **Terminal capacity** | Single strand 1·5 to 4mm² | |
| **Programmes** | 56 | 28 per channel |
| **Control-cable length** | Max. 50 m | |
| **Control signal** | 230 V AC/2 mA | |
| **Control-pulse duration** | 100 to 200 ms | |
| **Delaytime** | 0 to 23 h 59 min 59 s | |
| **Local coordinates** | Resolution 1°/1' in EXPERT-Mode | |
| **Working reserve(1)** | 6 years | |
| **Battery reserve** | 5 years | |
| **Programme memory** | EEPROM | |
| **Summer/Winter time** | Auto | |
| **IP rating** | IP 20 | |
| **No. of 17·5 mm modules** | 2 | |
| **Operating temp.** | –20 °C to +55 °C | |
| **Storage temp.** | –20 °C to +60 °C | |

(1) For time and date only

## ■ General information

**AlphaRex³ Astro D21** Cat. No. 4126 54

- **Start-up :** after applying the supply voltage, the time switch starts automatically with the last selected function. The relay position is set by the current programme
- **Battery backup**
  - **Backlighting** not active
  - **Data key** READ/WRITE only via the menu

Select menu, back to main menu,
Hold down > 1s = operating display

OK Confirm selection or load parameters

\- + Select menu options or set parameters

**AlphaRex³ Astro D22** Cat. No. 4126 57

- **Start-up :** after applying the supply voltage, the time switch starts automatically with the last selected function. The relay position is set by the current programme
- **Battery backup**
  - **Backlighting** not active
  - **Data key** READ/WRITE only via the menu
- **For safety :** when the time switch is connected to the mains supply the contact should not be used on an isolated low voltage supply and when the time switch is connected to the isolated voltage supply the contact should not be used on the mains supply

Select menu, back to main menu,
Hold down > 1s = operating display

OK Confirm selection or load parameters

C1 C2
\- +
- Select menu options or set parameters
- Channel selection

# MicroRex D digital time switches
for rail

6047 74

0037 00

Conform to EN 60730-1 and EN 60730-2-7
LCD digital display
Mount on DIN rail EN 60715

| Pack | Cat. Nos. | MicroRex D Plus | No. of 17·5 mm modules |
|---|---|---|---|
| | | UK specific English display<br>Supply voltage : 220 V∿ 50 Hz<br>CE approved<br>16 A<br>56 programmes per channel<br>3 years working reserve<br>Accuracy : 1 second clock precision<br>Switching precision : 1 minute | |
| | | **MicroRex D21 Plus** | |
| 1 | 6037 70 | 1 channel | 2 |
| | | **MicroRex D22 Plus** | |
| 1 | 6037 71 | 2 channels | 2 |

NEW Available September 2012

| Pack | Cat. Nos. | MicroRex D Plus | No. of 17·5 mm modules |
|---|---|---|---|
| | | Working reserve : 6 years<br>Accuracy : ±1 second per day<br>Programmable for 1 minute minimum at 1 minute steps<br>either as 24 hour/7 day using pre-set groups of days | |
| | | **MicroRex D21 Plus** | |
| 1 | 6047 74 | 24 hour or 7 day, 28 programme<br>1 channel<br>1 x 16 A voltage free c/o contact | 2 |
| | | **MicroRex D22 Plus** | |
| 1 | 6047 77 | 24 hour or 7 day, 2 x 14 programme<br>2 channel<br>2 x 16 A voltage free c/o contacts | 2 |

Available Until September 2012

| Pack | Cat. Nos. | MicroRex D | No. of 17·5 mm modules |
|---|---|---|---|
| | | Supply voltage : 230 V∿ 50/60 Hz<br>Working reserve : 100 hours<br>Accuracy : ±2·5 seconds per day | |
| | | **7 day programme**<br>Programmable for 1 minute min. at 1 minute steps | |
| | | **Additional features :**<br>Manual advance/override (ON-OFF)<br>Automatic override (ON-OFF) for holidays, weekends or bank holidays up to 99 days successively<br>Automatic summer/winter setting | |
| | | **MicroRex D11 – 1 module** | |
| 1 | 0037 00 | 8 programmes<br>1 channel<br>1 x 16 A – 250 V∿ voltage free c/o contacts with 8 "ON-OFF" per day or per week | 1 |

MicroRex D digital time switches
for rail

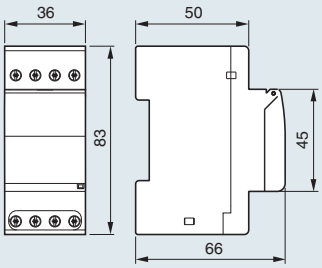
## Technical information

| Type<br>Cat. No. | MicroRex D21 Plus<br>6047 74 | MicroRex D22 Plus<br>6047 77 | MicroRex D11<br>0037 00 |
|---|---|---|---|
| Programme | 24 hour or 7 day | | 7 day |
| No. of channels | 1 | 2 | 1 |
| No. of ON-OFF actions per day/week | 28 | 2 x 14 | 8 |
| Switching cap : cos φ = 1<br>incandescent lamp cos φ = 0·6 | 16 A<br>5 A<br>8 A | | 16 A<br>4 A<br>10 A |
| Contact | 1 c/o | 2 c/o | 1 c/o |
| Terminal capacity | 1·5 - 4 mm single/1·5 - 2·5 mm stranded | | |
| IP rating | IP 20 | | |
| Min. prog. time | 1 minute | | |
| Switching step | 1 minute | | |
| Accuracy | ±1 second per day | | ±2·5 sec/d |
| Working reserve(1) | 6 years | | >100 hrs |
| Prog. memory | EEPROM | | – |
| Manual switching | Override and permanent | | |
| No. of 17·5 mm modules | 2 | | 1 |
| Operating temp. | –20 °C to +55 °C | | –10 °C to +55 °C |
| Storage temp. | –20 °C to +60 °C | | – |
| Weight | 130 g | | 100 g |

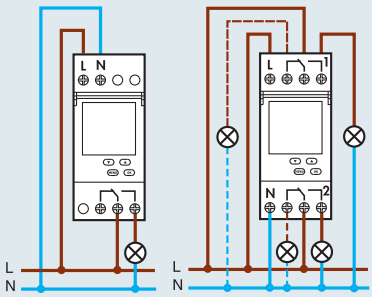
(1) For time and date only

## Dimensions (mm) and wiring diagrams

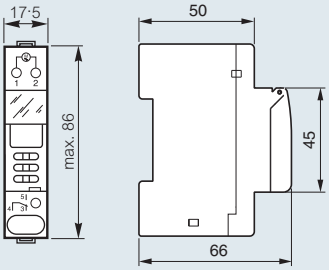
**MicroRex D21/D22 Plus**



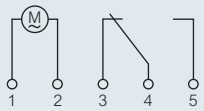

**Wiring diagram**




**MicroRex D11**




**Wiring diagram**



# MaxiRex digital time switches
## surface or 72 x 72 mm panel mounting

0496 82

Conform to EN 60730-1 and EN 60730-2-7
Supply voltage : 230 V∿ 50/60 Hz
Accuracy : ±1 second per day
LCD digital display
Programmable for 1 minute minimum at 1 minute intervals
Panel and DIN rail ⎓ mounting :
- can be panel mounted using Cat. No. 0498 32
- can be clipped to DIN rail ⎓ using Cat. No. 0044 09

| Pack | Cat. Nos. | MaxiRex D Plus |
|---|---|---|
| | | Working reserve : 6 years<br>Programmable for 1 minute min. at 1 minute steps either as 24 hour/7 day using pre-set groups of days<br>One programme consists of 1 "ON" and 1 "OFF" time and the allocation of any day of the week or a combination of days. Plus the selected channel<br>*Example :*<br>Prog. 1 On 07.00hrs Off 08.15hrs Mon-Fri Ch1<br>Prog. 2 On 16.00hrs Off 20.15hrs Mon-Fri Ch2<br>Prog. 3 On 10.00hrs Off 16.15hrs Sat-Sun Ch1<br>**Additional features :**<br>EEPROM memory stores programme indefinitely<br>Optional automatic summer/winter time change<br>Manual override (ON or OFF)<br>Automatic advance (changes contact position until next automatic ON time) |
| 1 | 0496 80 | **MaxiRex D72/1 Plus**<br>24 hour or 7 day<br>28 programme<br>1 channel<br>1 x 16 A voltage free c/o contact |
| 1 | 0496 82 | **MaxiRex D72/2 Plus**<br>24 hour or 7 day<br>2 x 14 programme<br>2 channel<br>2 x 16 A voltage free c/o contacts |

| | | Fixing accessories |
|---|---|---|
| 5 | 0498 32 | Clip-on support frame for panel mounting |
| 5 | 0044 09 | DIN rail ⎓ adaptor |

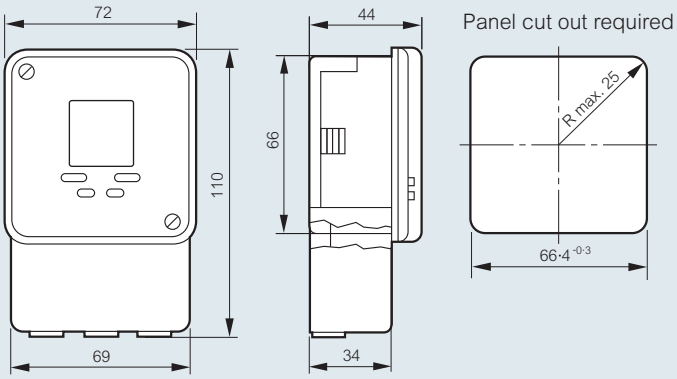
# MaxiRex digital time switches
## surface or 72 x 72 panel mounting

### ■ Technical information

| Type<br>Cat. No. | MaxiRex D72/1 Plus<br>0496 80 | MaxiRex D72/2 Plus<br>0496 82 |
|---|---|---|
| **Programme** | 24 hour or 7 day | |
| **No. of channels** | 1 | 2 |
| **No. of ON-OFF actions per day** | 28 | 2 x 14 |
| **Switching capacity :**<br>**cos φ = 1**<br>**incandescent lamp**<br>**cos φ = 0·6** | 16 A<br>5 A<br>8 A | 16 A<br>5 A<br>8 A |
| **Contact** | 1 changeover switch | 2 changeover switches |
| **Min. prog. time** | 1 minute | |
| **Switching step** | 1 minute | |
| **Accuracy** | ±1 second per day | |
| **Working reserve**(1) | 6 years | |
| **Programme memory** | EEPROM | |
| **Manual switching** | Override and permanent | |
| **Operating temp.** | –20 °C to +55 °C | |
| **Storage temp.** | –20 °C to +60 °C | |
| **Weight** | 178 g | 204 g |

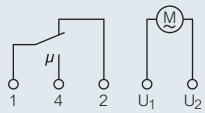
(1) For time and date only

### ■ Dimensions (mm)

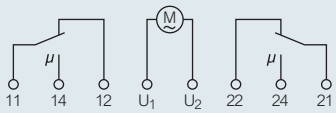



### ■ Wiring diagrams

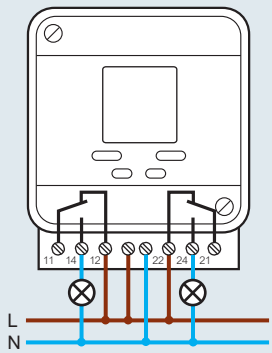
**MaxiRex D72/1 Plus**



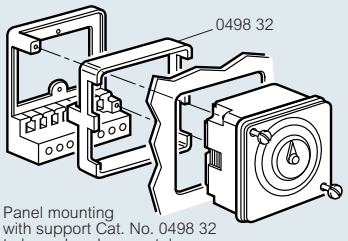

**MaxiRex D72/2 Plus**



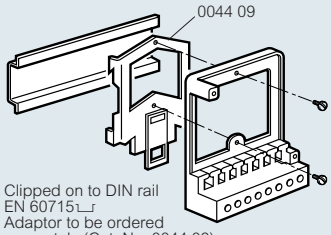

**MaxiRex D72/2 Plus**




### ■ Mounting options




Panel mounting with support Cat. No. 0498 32 to be ordered separately




Clipped on to DIN rail EN 60715⎓ Adaptor to be ordered separately (Cat. No. 0044 09)

# MicroRex
## analogue time switches
**for rail**

NEW

4127 90

4127 95

Conform to EN 60730-1 and EN 60730-2-7
Programmed via captive segment
Supply voltage : 230 V∿ 50/60 Hz
1 x 16 A output
Manual changeover to summer/winter time
Mount on DIN rail EN 60715

| Pack | Cat. Nos. | Daily programme | No. of 17·5 mm modules |
|---|---|---|---|
| | | 24 hour programme<br>One segment : 15 minutes<br>Switching accuracy : ± 5 minutes | |
| 1 | 4127 80 | **T11 Daily**<br>1 channel<br>Without working reserve<br>N/O contact<br>Minimum switching time : 15 minutes<br>Vertical dial | 1 |
| 1 | 4127 90 | **QT11 Daily**<br>1 channel<br>With 100 hr working reserve<br>N/O contact<br>Minimum switching time : 15 minutes<br>Vertical dial | 1 |
| 1 | 4128 12 | **T31 Daily**<br>1 channel<br>Without working reserve<br>Changeover switch<br>Minimum switching time : 30 minutes<br>Horizontal dial | 3 |
| 1 | 4128 13 | **QT31 Daily**<br>1 channel<br>With 100 hr working reserve<br>Changeover switch<br>Minimum switching time : 30 minutes<br>Horizontal dial | 3 |

| | | Weekly programme | No. of 17·5 mm modules |
|---|---|---|---|
| | | 7 day programme<br>One segment : 2 hours<br>Switching accuracy : ± 30 minutes | |
| 1 | 4127 94 | **QW11 Weekly**<br>With 100 hr working reserve<br>N/O contact<br>Minimum switching time : 2 hours<br>Vertical dial | 1 |
| 1 | 4127 95 | **QW31 Weekly**<br>With 100 hr working reserve<br>Changeover switch<br>Minimum switching time : 4 hours<br>Horizontal dial | 3 |

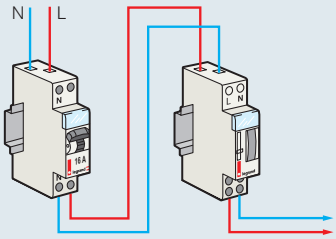

# MicroRex
## analogue time switches
**for rail**


### ■ Technical information

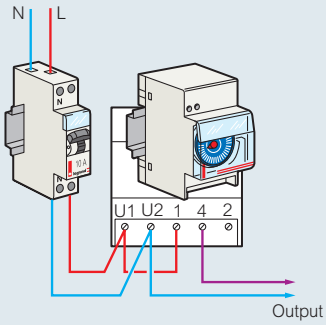
| Cat. Nos. | Programme | Segment | Min. switching time | Working reserve | 16 A output via contact | | No. of modules |
|---|---|---|---|---|---|---|---|
| | | | | | N/O | Chang. S. | |
| **4128 12** | 24 h | 15 min | 30 min | without | – | 1 | 3 |
| **4128 13** | 24 h | 15 min | 30 min | 100 h | – | 1 | 3 |
| **4127 80** | 24 h | 15 min | 15 min | without | 1 | – | 1 |
| **4127 90** | 24 h | 15 min | 15 min | 100 h | 1 | – | 1 |
| **4127 94** | 7 d | 2 h | 2 h | 100 h | 1 | – | 1 |
| **4127 95** | 7 d | 2 h | 4 h | 100 h | – | 1 | 3 |

### ■ Wiring diagrams

Cat. Nos. 4127 80/90/94



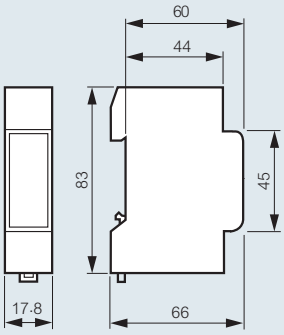

Cat. Nos. 4128 12/13/95



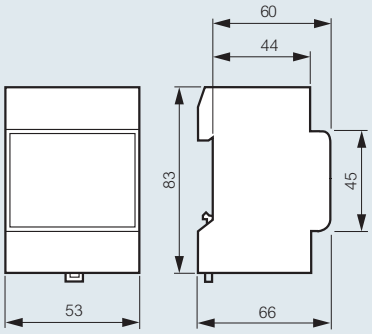

Output closing and breaking times are calculated based on the date, the actual time when the device was switched and on geographical coordinates of the actual location

### ■ Dimensions (mm)

Cat. Nos. 4127 80/90/94




Cat. Nos. 4128 12/13/95



# MaxiRex and EconoRex
## analogue time switches
### surface and panel mounting

0497 54

0499 83

| Pack | Cat. Nos. | MaxiRex |
|---|---|---|
| | | Conform to EN 60730-1 and EN 60730-2-7<br>Supply voltage : 230 V∿ ±10%<br>3 position changeover switch<br>With manual override<br>Voltage free contacts<br>Mounting options :<br>- can be surface mounted<br>- can be panel mounted using Cat. No. 0498 32<br>- can be clipped to DIN rail ⊔ using Cat. No. 0044 09<br>With 72 x 72 mm display to DIN EN 60715 Part C |
| | | **24 hour programme**<br>Programmable for 30 minutes minimum<br>at 10 minute intervals<br>Accuracy : ±5 minutes per day |
| 1 | 0497 50 | **MaxiRex T**<br>Without working reserve – 50 Hz |
| 1 | 0497 54 | **MaxiRex QT**<br>With 100 hr working reserve – 50/60 Hz |
| | | **7 day programme**<br>Programmable for 3 hours minimum<br>at 1 hour intervals<br>Accuracy : ±30 minutes per day |

| | | Fixing accessories |
|---|---|---|
| 5 | 0498 32 | Clip-on support frame for panel mounting |
| 5 | 0044 09 | DIN rail ⊔ adaptor |

| | | EconoRex MT |
|---|---|---|
| | | Conforms to EN 60730-1 and EN 60730-2-7<br>Supply voltage : 230 V∿ 50 Hz<br>Mounting options :<br>- can be surface mounted using Cat. No. 0495 94<br>- can be panel mounted |
| 1 | 0499 83 (NEW) | **EconoRex MT**<br>BTAP without working reserve<br>20 A output<br>Shortest switching step : 20 minutes<br>Switching accuracy : ± 5 minutes |

| | | Fixing accessory |
|---|---|---|
| 1 | 0495 94 (NEW) | Support frame for surface mounting |

**Time switches are ideal for use with Bticino door entry systems**

**Contact us on +44 (0) 845 605 4333**

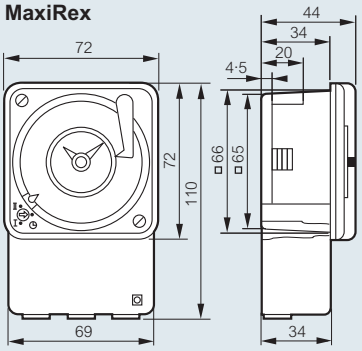
MaxiRex and EconoRex
analogue time switches
surface and panel mounting

## Technical information

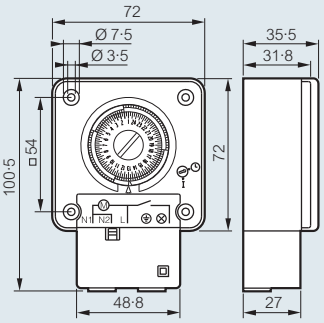
| Type<br>Cat. No. | MaxiRex T<br>0497 50 | MaxiRex QT<br>0497 54 | EconoRex MT<br>0499 83 |
|---|---|---|---|
| Supply voltage | 230 V∿+10% –15% | | |
| Frequency | 50 Hz | 50/60 Hz | 50 Hz |
| Switching capacity :<br>cos φ = 1<br>cos φ = 0·6<br>incand. lamp | 16 A<br>10 A<br>1 000 W | | 16 A<br>8 A<br>1 000 W |
| Contact | 1 c/o SPDT | 1 c/o SPDT | 1 c/o |
| Working reserve | None | 100 hrs | None |
| Min. switching time | 30 mins | | 15 mins |
| Interval | 10 mins | | 15 mins |
| IP rating | IP 30 | | |
| Storage temp. | –10 °C to +60 °C | | |
| Operating temp. | 0 °C to +55 °C | | |

## Dimensions (mm)

**MaxiRex**

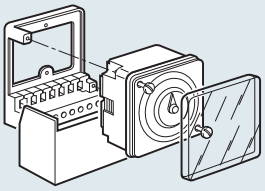



**EconoRex**

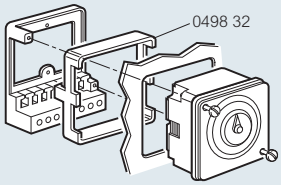



## MaxiRex mounting

**Wall mounting**

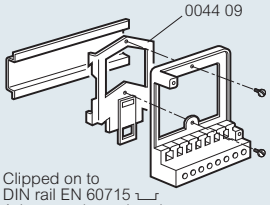


**Panel mounting**




Panel mounting with support
Cat. No. 0498 32
to be ordered separately

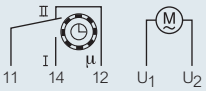
**DIN rail mounting**




Clipped on to
DIN rail EN 60715 ⊔
Adaptor to be ordered
separately (Cat. No. 0044 09)

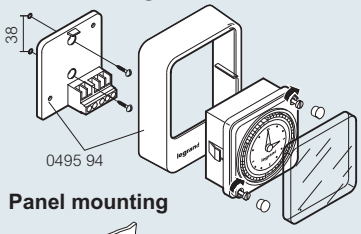
## Wiring diagrams

**MaxiRex and EconoRex**

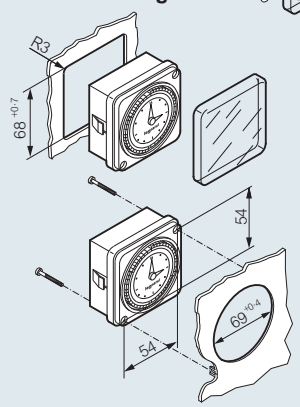



## EconoRex mounting

**Wall mounting**




**Panel mounting**



# light sensitive control
## and electronic time lag switches
**digital for rail**

0037 21

4126 02

| Pack | Cat. Nos. | | No. of 17·5 mm modules |
|---|---|---|---|
| 1 | 0037 21(1) | **Light sensitive switch Microlux D**<br>Controls lighting according to the time and light level<br>Supply voltage : 230 V∿ ±10% 50/60 Hz<br>Working reserve : 100 hours<br>Accuracy of time switch : 1 second per day<br>Number of programmes : 28/14 per channel<br>Range of light intensity : 2-60 000 Lux<br>Switching step : 1 minute<br>Manual switch : override/programme/stop<br>Automatic changeover to summer/winter time<br>Temporary override with automatic return to programme<br>**Microlux D**<br>10 A – 250 V∿ cos φ = 1<br>1 changeover contact with 60 sec delay | 2 |
| 10 | NEW 4126 02 | **Electronic time-lag switch**<br>For staircase lighting. Switches a lighting circuit on and off from remote switch for a specific time<br>DIN rail ⊔ mountable<br>Self-protection in the event of a blocked push button<br>Power supply : 230 V∿ - 50/60 Hz<br>2 000 W incandescent<br>2 000 W halogen - 230 V∿<br>1 000 VA fluo-series compensated<br>120 VA fluo-parallel compensated 14 µF<br>100 VA compact fluorescent<br>1 000 W energy saving lamp<br>Adjustable from 0·5 seconds to 10 minutes<br>Output : 16 A - 250 V∿ - cos φ = 1<br>3 wire or 4 wire connection<br>Manual override contact | 1 |

(1) Supplied with photo-electric cell housed in Plexo weatherproof box - IP 55

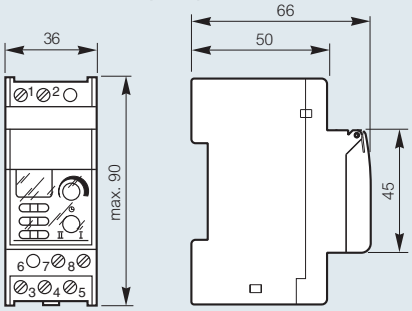

# light sensitive control
## and electronic time lag switches
**digital for rail**


### ■ Technical information

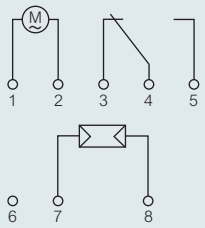
| Type<br>Cat. No. | Microlux D<br>0037 21 | Electronic time-lag<br>4126 02 |
|---|---|---|
| Supply voltage | 230 V∿ | |
| Frequency | 50/60 Hz | |
| Consumption | ~1·3 W | 0·8 W |
| Contact rating | Changeover contact<br>10 A 250 V∿ µ cos φ = 1 | µ 16 A cos φ = 1/250 V∿ |
| Accuracy | ±2·5 seconds per day | |
| Terminal capacity | Single strand 1·5 to 4 mm² | Multi strand 1·5 to 2·5 mm² |
| Program pictures | 8 | |
| Battery reserve | 100 hours | 100 minutes |
| Operating temp. | –10 °C to +55 °C | –20 °C to +55 °C |
| Storage temp. | –10 °C to +60 °C | –20 °C to +70 °C |
| Setting range | ~2 to 60 000 lx | |
| IP rating | IP 20 | IP 30 |

### ■ Microlux D

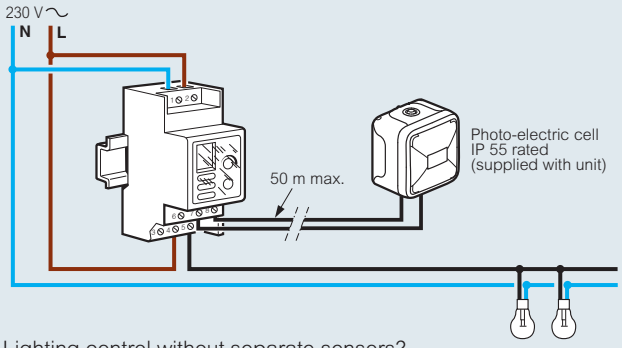
**Dimensions (mm)**




**Wiring diagram**




**Connection of programmable light sensitive switch**

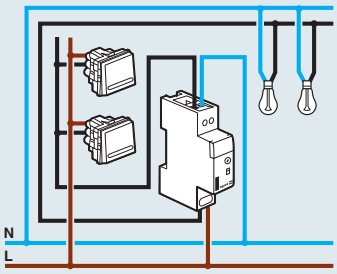



Lighting control without separate sensors?
No problem for AlphaRex³ Astro time switch, see p. 120

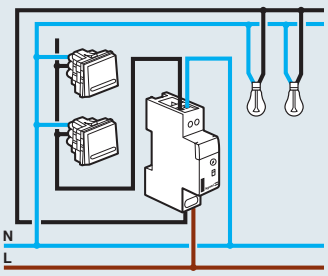
### ■ Time-lag switch

Allows :
- unlimited numbers of unlit push-buttons
- 50 lit push-buttons max. (neon R = 1 mA max.)
  Constant lighting possible

**3-wire connection**




**4-wire connection**



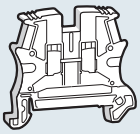
# Viking 3 terminal blocks

Viking 3

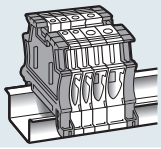
**P. 132**
Terminal blocks – screw connection selection chart

**P. 136**
Terminal blocks – spring connection selection chart

**P. 146**
Terminal blocks – heavy duty selection chart

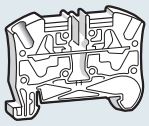


**P. 134**
Terminal blocks – screw connection

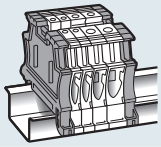


**P. 140**
Accessories for terminal blocks

**P. 142**
Technical information

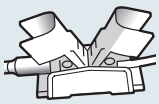


**P. 138**
Terminal blocks – spring connection

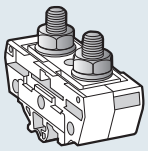


**P. 140**
Accessories for terminal blocks

**P. 144**
Technical information



**P. 147**
Heavy duty terminal blocks for copper and aluminium cables



**P. 148**
Heavy duty terminal blocks for copper bars and cable lugs

**P. 149**
Technical information

# Viking 3 terminal blocks...

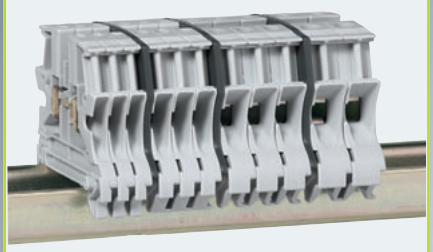
## fast, secure connections every time

Available with a choice of screw, spring and heavy duty connection options, Viking 3 terminal blocks provide trusted, safe and reliable installations whatever your application.

Terminal blocks in the screw and spring connection ranges are complemented by a range of common accessories, including end stops, dividers and bridging combs.

Used in conjunction with Legrand's CAB 3 marking system and Starfix ferrules and crimping tools, Viking 3 provides a total solution for easy to use connection systems.

### SCREW CONNECTION

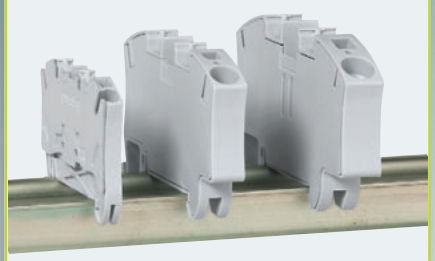


Universal screw technology, ideal for distribution and process cabinets.

FEATURES –

- Cable capacities from 0.25mm² to 95mm²
- High quality steel clamp ensures mechanical strength
- Angled cable entries for easy cabling and visible cable marking
- 2 central shunting zones
- Supplied pre-assembled in blocks of 5 or 10, using fixing pin
- 2 marking zones

### SPRING CONNECTION



Ideal for vibration sensitive environments such as cranes, machines and onboard cabinets.

FEATURES –

- Cable capacities from 0.5mm² to 16mm²
- Angled cable entries for easy cabling and visible cable marking
- Direct insertion of rigid cable, or flexible cable with ferrules, in terminal blocks up to 6mm²
- 2 central shunting zones
- Reduced cabling time
- Automatic connection with or without ferrules
- 2 marking zones
- No regular retightening required
- 5mm pitch block facilitates 4mm cable

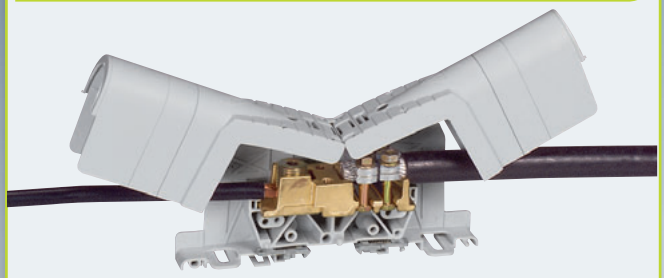
### TECHNICAL DATA

**APPROVALS:** Conform to EN 60947-7-1, EN 60947-7-2, EN 60947-7-3, UL/CSA/NF/VDE/IMQ ATEX certification

**SIZE RANGE:** To fit cable cross sections from 0.25mm² to 300mm²

**FLAMMABILITY:** UL94, self extinguishing at 960°C

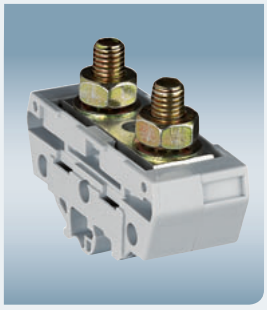
## HEAVY DUTY CONNECTION



Enables copper and aluminium cables with cross sections from 35mm² to 300mm² to be connected directly or via lugs.

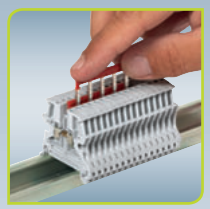
FEATURES –

- Multiple mounting options... DIN rail, G rail or plate fixing
- Compatible with CAB3 marking system
- Sealable to create weatherproof connections
- Separation barriers and protective covers available
- Provide facility for the termination of larger cables associated with long cable runs

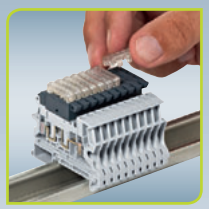


# Integrated accessories complete the range

End stop with screwless fixing



Bridging comb with automatic insertion up to 8 mm (screw) or 12 mm (spring) widths

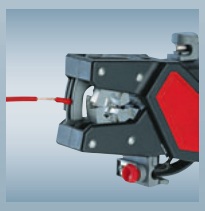


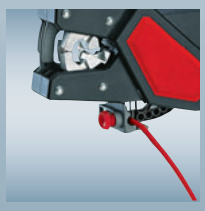
Indication of blown fuses (12 / 48 V or 110 / 250 V)

Additional functions can be added: standard, neutral or protected isolation, MCBs, automotive-type fuses, etc...

**Common accessories across screw and spring connection ranges**

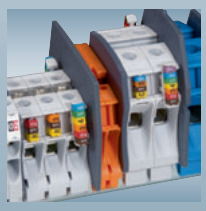
# Perfect connections... clearly marked

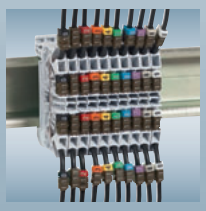




Create reliable connections in seconds with Starfix crimping tools and ferrules... everything you need for cable widths from 0.25mm² to 50mm².

See p. 160 to 161



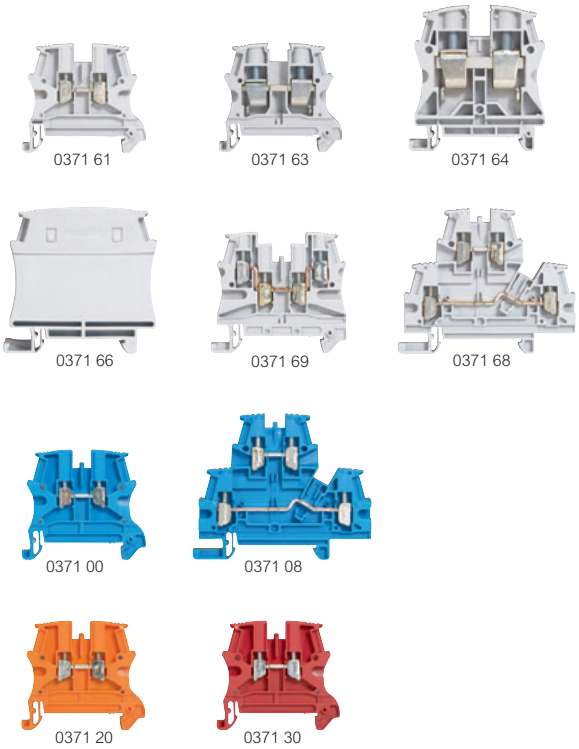
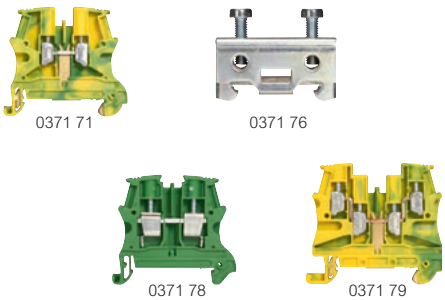
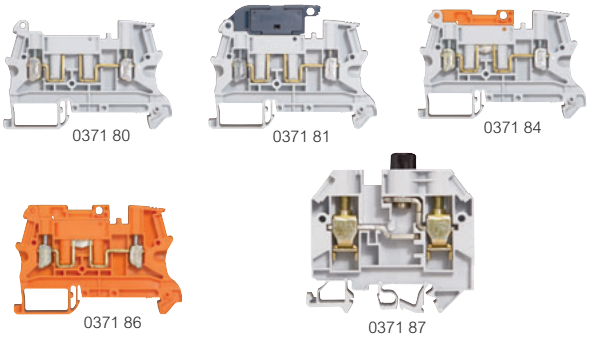


CAB 3 offers a high quality solution to multiple cable and terminal block marking needs. Universal fittings enable clear, rapid marking and simple modification.

See p. 152 to 156

# Viking 3 terminal blocks – screw connection
## for copper cable

See p. 134-135 for product detail

| | | | | TERMINAL TYPE |
|---|---|---|---|---|
|  0371 61, 0371 63, 0371 64, 0371 66, 0371 69, 0371 68, 0371 00, 0371 08, 0371 20, 0371 30 | **Connection** (p. 134) | 1 connection - 1 entry/1 exit | | |
| | | 1 connection - 2 entries/2 exits | | |
| | | 2 connections on 2 levels | | |
| | | 3 connections on 3 levels | | |
|  0371 71, 0371 76, 0371 78, 0371 79 | **Protection** (p. 134) | 1 connection - 1 entry/1 exit - metal base | | |
| | | 1 connection - 1 entry/1 exit - plastic base[1] | | |
| | | 1 connection - 2 entries/2 exits - metal base | | |
|  0371 80, 0371 81, 0371 84, 0371 86, 0371 87 | **Disconnection** (p. 134) | 1 connection | Open (to be equipped) | |
| | | | For fuse cartridge 5 x 20 with handle lever | |
| | | | For fuse cartridge 5 x 20 with handle lever + blown fuse indicator | |
| | | | For neutral circuit with handle lever | |
| | | | For standard circuit: With handle lever | |
| | | | For standard circuit: With mini lever | |
| | | | For circuit not broken: With handle lever | |
| | | | For circuit not broken: With mini lever | |
| | | | For fuse cartridge 5 x 20 with screwed plug | |
| 0371 51, 0371 52 | **For sensors and actuator** (p. 135) | 3 connections on 3 levels | Sensor | |
| | | | Actuator | |
| | **PNE** (p. 135) | | Phase/Neutral/Earth | |

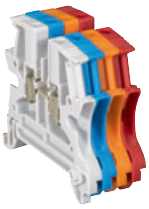
(1) Can be used for protection conductor inside class II equivalent assemblies
(2) Blown fuse indicator 12/24/48 V ⎓/∿ Cat. No. 0375 24 or 110/250 V∿ Cat. No. 0375 25 (p. 141)
(3) Or end stop Cat. No. 0375 10
(4) Upper level only
(5) Lower and intermediate levels

# accessories

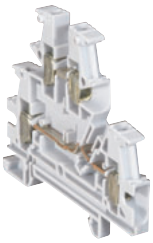
## for Viking 3 terminal blocks - screw connection

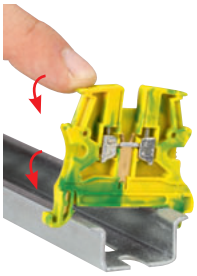
| TERMINAL BLOCK | | | | INSULATION | | BRIDGING COMBS | | | | | PROTECTION | | MEASURE-MENT | ASSOCIATED PRODUCTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nominal cross section (mm²) | Width (mm) | Colour | Cat. Nos. | End cap | Separation / insulation divider | Comb for 2 blocks, auto. front | Comb for 3 blocks, auto. front | Comb for 10 blocks, auto. front | Comb for 12 blocks, side | Bar for 12 blocks, front | Single pole screen | Cut to length screen | Test meter adaptor | |
| 2·5 | 5 | | 0371 60 | 0375 50(3) | 0375 60 | 0375 02 | – | 0375 01 | – | – | 0375 65 | 0375 68 | 0375 27 | End stops (p. 140) |
| | | ● | 0371 00 | | | | | | | | | | | |
| | | ● | 0371 20 | | | | | | | | | | | |
| | | ● | 0371 30 | | | | | | | | | | | |
| 4 | 6 | | 0371 61 | 0375 50(3) | 0375 60 | 0375 05 | – | 0375 04 | – | – | 0375 65 | 0375 68 | 0375 27 | |
| | | ● | 0371 01 | | | | | | | | | | | |
| | | ● | 0371 21 | | | | | | | | | | | |
| | | ● | 0371 31 | | | | | | | | | | | |
| | | ● | 0371 77 | | | | | | | | | | | |
| 6 | 8 | | 0371 62 | 0375 50(3) | 0375 60 | – | 0375 07 | – | – | – | 0375 66 | 0375 68 | 0375 27 | Label holder for end stop (p. 140) |
| | | ● | 0371 02 | | | | | | | | | | | |
| | | ● | 0371 78 | | | | | | | | | | | |
| 10 | 10 | | 0371 63 | 0375 50(3) | 0375 60 | – | – | – | – | 0375 40 | 0375 66 | 0375 68 | – | |
| | | ● | 0371 03 | | | | | | | | | | | |
| 16 | 12 | | 0371 64 | 0375 51 | 0375 61 | – | – | – | – | 0375 42 | 0375 67 | 0375 69 | – | |
| | | ● | 0371 04 | | | | | | | | | | | |
| 35 | 15 | | 0371 65 | 0375 51 | 0375 61 | – | – | – | – | 0375 44 | 0375 67 | 0375 69 | – | |
| | | ● | 0371 05 | | | | | | | | | | | |
| 70 | 22 | | 0371 66 | built-in | – | – | – | – | – | – | – | – | – | End caps (p. 140) |
| 4 | 6 | | 0371 69 | 0375 52 | 0375 62 | 0375 05 | – | 0375 04 | – | – | – | – | 0375 27 | |
| | | ● | 0371 09 | | | | | | | | | | | |
| 2·5 | 5 | | 0371 67 | 0375 53 | 0375 63 | 0375 02 | – | 0375 01 | – | – | – | – | 0375 27(4) | |
| | | ● | 0371 07 | | | | | | | | | | | |
| 4 | 6 | | 0371 68 | 0375 53 | 0375 63 | 0375 05 | – | 0375 04 | – | – | – | – | 0375 27(4) | |
| | | ● | 0371 08 | | | | | | | | | | | |
| 2·5 | 5 | | 0371 51 | 0375 54 | 0375 54 | 0375 02(4) | – | 0375 01(4) | 0375 46 ●(5)<br>0375 47 ●(5) | – | – | – | 0375 27(4) | Dividers (p. 140) |
| 2·5 | 5 | ◐ | 0371 70 | 0375 50(3) | – | – | – | – | – | – | – | – | – | |
| 4 | 6 | ◐ | 0371 71 | | | | | | | | | | | |
| 6 | 8 | ◐ | 0371 72 | | | | | | | | | | | |
| 10 | 10 | ◐ | 0371 73 | | | | | | | | | | | |
| 16 | 12 | ◐ | 0371 74 | 0375 51 | – | – | – | – | – | – | – | – | – | |
| 35 | 15 | ◐ | 0371 75 | | | | | | | | | | | |
| 35 | 15 | | 0371 76 | – | – | – | – | – | – | – | – | – | – | Blown fuse indicators (p. 141) |
| 4 | 6 | ● | 0371 77 | 0375 50 | 0375 60 | 0375 05 | – | 0375 04 | – | – | 0375 65 | 0375 68 | – | |
| 6 | 8 | ● | 0371 78 | 0375 50 | 0375 60 | – | 0375 07 | – | – | – | 0375 66 | 0375 68 | – | |
| 4 | 6 | ◐ | 0371 79 | 0375 52 | – | – | – | – | – | – | – | – | – | |
| 2·5 | 6 | | 0371 80 | 0375 55 | 0375 62 | 0375 05 | – | 0375 04 | – | – | – | – | 0375 27 | Shielding (p. 141) |
| | | | 0371 81 | 0375 55 | 0375 62 | 0375 05 | – | 0375 04 | – | – | – | – | – | |
| | | | 0371 81 + 0375 24 / 25(2) | | | | | | | | | | | |
| | | ◗ | 0371 82 | | | | | | | | | | | |
| | | | 0371 83 | | | | | | | | | | | |
| | | | 0371 84 | 0375 55 | 0375 62 | 0375 05 | – | 0375 04 | – | – | – | – | 0375 27 | CAB 3 marking system (p. 154) |
| | | ● | 0371 85 | 0375 55 | 0375 62 | 0375 05 | – | 0375 04 | – | – | – | – | – | |
| | | ● | 0371 86 | 0375 55 | 0375 62 | 0375 05 | – | 0375 04 | – | – | – | – | 0375 27 | |
| 10 | 12 | | 0371 87 | 0375 56 | – | – | – | – | – | – | – | – | – | |
| 2·5 | 5 | ● | 0371 51 | 0375 54 | 0375 54 | 0375 02(4) | – | 0375 01(4) | 0375 46 ●(5)<br>0375 47 ●(5) | – | – | – | 0375 27(4) | Starfix ferrules (p. 160) |
| | | ● | 0371 52 | | | | | | | | | | | |

# Viking 3 terminal blocks – screw connection
## for copper cable


0371 60 + 0371 00 + 0371 20 + 0371 30

0371 69

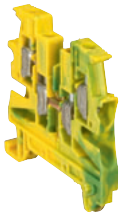

0371 68


0371 70 on rail

0371 60 + 0371 61 + 0371 62 + 0371 63 + 0371 64 + 371 65 + 371 66

0371 74

0371 76


0371 79

*Accessories (p. 140-141)*
*Technical characteristics (p. 142-143)*

All V2 polyamide UL94 960 °C to IEC EN 60695-2-11
Compatible with either rigid (0·25 mm² to 95 mm²) or flexible (0·25 mm² to 70 mm²) copper cables
Facility for 2 bridging combs
Compatible with rails ⊔ depth 15 mm and rails ⊔ EN 60715 depth 7·5 mm and 15 mm
Range comprises only 2 block heights (2·5 mm² to 10 mm² and 16 mm² to 70 mm²) ensuring a neat installation

## Connection

Grey for standard circuit
Blue for neutral conductor
Orange for circuit not broken by the master isolating device
Red for special circuits (safety, protected, etc)

| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Width (mm) |
|---|---|---|---|---|---|---|
| | | **1 connection - 1 entry/1 exit** | | | | |
| 60 | 0371 60 | Grey | 2·5 | 0·25 to 4 | 0·25 to 2·5 | 5 |
| 60 | 0371 00 | Blue | | | | |
| 60 | 0371 20 | Orange | | | | |
| 60 | 0371 30 | Red | | | | |
| 50 | 0371 61 | Grey | 4 | 0·25 to 6 | 0·25 to 4 | 6 |
| 50 | 0371 01 | Blue | | | | |
| 50 | 0371 21 | Orange | | | | |
| 50 | 0371 31 | Red | | | | |
| 40 | 0371 62 | Grey | 6 | 0·5 to 10 | 0·25 to 6 | 8 |
| 40 | 0371 02 | Blue | | | | |
| 30 | 0371 63 | Grey | 10 | 1·5 to 16 | 2·5 to 10 | 10 |
| 30 | 0371 03 | Blue | | | | |
| 20 | 0371 64 | Grey | 16 | 1·5 to 25 | 4 to 16 | 12 |
| 20 | 0371 04 | Blue | | | | |
| 20 | 0371 65 | Grey | 35 | 2·5 to 50 | 4 to 35 | 15 |
| 20 | 0371 05 | Blue | | | | |
| 10 | 0371 66 (1) | Grey | 70 | 25 to 95 | 16 to 70 | 22 |
| | | **1 connection - 2 entries/2 exits** | | | | |
| 25 | 0371 69 | Grey | 4 | 0·25 to 6 | 0·25 to 4 | 6 |
| 25 | 0371 09 | Blue | | | | |
| | | **2 connections on 2 levels** | | | | |
| 60 | 0371 67 | Grey | 2·5 | 0·25 to 4 | 0·25 to 2·5 | 5 |
| 60 | 0371 07 | Blue | | | | |
| 60 | 0371 68 | Grey | 4 | 0·25 to 6 | 0·25 to 4 | 6 |
| 60 | 0371 08 | Blue | | | | |
| | | **3 connections on 3 levels** | | | | |
| 50 | 0371 51 (2) | Grey | 2·5 | 0·25 to 4 | 0·25 to 2·5 | 5 |

(1) Built-in end cap
(2) Cable capacity : 2·5 mm² max. only when used with bridging comb

## Protection

| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Width (mm) |
|---|---|---|---|---|---|---|
| | | **1 connection - 1 entry/1 exit - metal base**<br>Screwless fixing on rail up to 10 mm width<br>PEN from 10 mm² | | | | |
| 60 | 0371 70 | Green/yellow | 2·5 | 0·25 to 4 | 0·25 to 2·5 | 5 |
| 50 | 0371 71 | Green/yellow | 4 | 0·25 to 6 | 0·25 to 4 | 6 |
| 40 | 0371 72 | Green/yellow | 6 | 0·5 to 10 | 0·25 to 6 | 8 |
| 30 | 0371 73 | Green/yellow | 10 | 1·5 to 16 | 2·5 to 10 | 10 |
| 10 | 0371 74 | Green/yellow | 16 | 1·5 to 25 | 4 to 16 | 12 |
| 10 | 0371 75 | Green/yellow | 35 | 2·5 to 50 | 4 to 35 | 15 |
| | | **1 connection - bare block - metal base** | | | | |
| 10 | 0371 76 | - | 35 | 2·5 to 50 | 4 to 35 | 15 |
| | | **1 connection - 2 entries/2 exits - metal base**<br>Screwless fixing on rail | | | | |
| 50 | 0371 79 | Green/yellow | 4 | 0·25 to 6 | 0·25 to 4 | 6 |
| | | **1 connection - 1 entry/1 exit - plastic base**<br>Can be used for protection conductor inside class II equivalent assemblies | | | | |
| 50 | 0371 77 | Green | 4 | 0·25 to 6 | 0·25 to 4 | 6 |
| 40 | 0371 78 | Green | 6 | 0·5 to 10 | 0·25 to 6 | 8 |

## PNE - Phase/Neutral/Earth

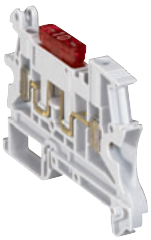
**3 connections on 3 levels - metal base**
Green/yellow marking for the lower level
Screwless fixing on rail

| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Width (mm) |
|---|---|---|---|---|---|---|
| 50 | 0371 52 (2) | Grey | 2·5 | 0·25 to 4 | 0·25 to 2·5 | 5 |

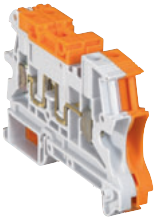
**For Starfix ferrules, crimping tools and CAB 3 marking system**

**see p. 154-161**

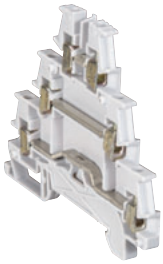
# Viking 3 terminal blocks – screw connection
## for copper cable (continued)


0371 80 + automotive-type fuse

0371 82 + 0371 83 + 0371 85


0371 84 + 0371 86

0371 87


0371 51

0371 52

*Accessories (p. 140-141)*
*Technical characteristics (p. 142)*

All V2 polyamide UL94 960 °C to IEC EN 60695-2-11
Compatible with either rigid (0·25 mm² to 95 mm²) or flexible (0·25 mm² to 70 mm²) copper cables
Facility for 2 bridging combs
Compatible with rails ⊔ depth 15 mm and rails ⊔ EN 60715 depth 7·5 mm and 15 mm
Range comprises only 2 block heights (2·5 mm² to 10 mm² and 16 mm² to 70 mm²) ensuring a neat installation

## Disconnection

| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Width (mm) |
|---|---|---|---|---|---|---|
| | | **1 connection** Disconnection by means of blade type lever, handle lever or mini lever (with tool) | | | | |
| | | **Open (to be equipped)** Can take a blade-type automotive fuse or a miniature circuit breaker | | | | |
| 20 | 0371 80 | Grey | 2·5 | 0·25 to 2·5 | 0·25 to 2·5 | 6 |
| | | **For fuse cartridge 5 x 20 with handle lever** | | | | |
| 20 | 0371 81 | Grey | 2·5 | 0·25 to 2·5 | 0·25 to 2·5 | 6 |
| | | **For neutral circuit with blue handle lever** | | | | |
| 20 | 0371 82 | Grey/blue | 2·5 | 0·25 to 2·5 | 0·25 to 2·5 | 6 |
| | | **For standard circuit with handle lever** | | | | |
| 20 | 0371 83 | Grey | 2·5 | 0·25 to 2·5 | 0·25 to 2·5 | 6 |
| | | **For standard circuit with mini lever** | | | | |
| 20 | 0371 84 | Grey | 2·5 | 0·25 to 2·5 | 0·25 to 2·5 | 6 |
| | | **For circuit not broken with handle lever** Circuit not broken by the master isolating device | | | | |
| 20 | 0371 85 | Orange | 2·5 | 0·25 to 2·5 | 0·25 to 2·5 | 6 |
| | | **For circuit not broken with mini lever** Circuit not broken by the master isolating device | | | | |
| 20 | 0371 86 | Orange | 2·5 | 0·25 to 2·5 | 0·25 to 2·5 | 6 |
| | | **For cartridge 5 x 20 with screwed plug** | | | | |
| 20 | 0371 87 | Grey | 10 | 0·25 to 16 | 0·25 to 10 | 12 |

**Blown fuse indicators** (p. 141)

## Blocks for sensors and actuators

For connecting sensors (Cat. No. 0371 51) or actuators (Cat. No. 0371 52), and their shared power supply unit when using equipotential bridging comb
Cat. Nos. 0375 46/47 (wiring diagram p. 143)

| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Width (mm) |
|---|---|---|---|---|---|---|
| | | **3 connections on 3 levels - for sensor** | | | | |
| 50 | 0371 51[1] | Grey | 2·5 | 0·25 to 4 | 0·25 to 2·5 | 5 |
| | | **3 connections on 3 levels - for actuator** Green/yellow marking for the lower level Metal base. Screwless fixing on rail | | | | |
| 50 | 0371 52[1] | Grey | 2·5 | 0·25 to 4 | 0·25 to 2·5 | 5 |

**Accessories** (p. 140-141)

**End stops** (p. 140)

**For Starfix ferrules, crimping tools and CAB 3 marking system**

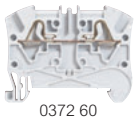
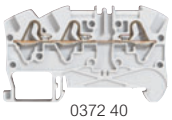
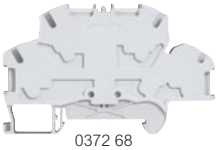
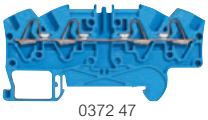
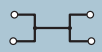
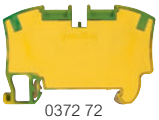
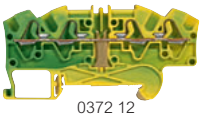
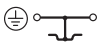
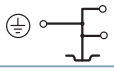
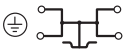
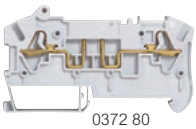
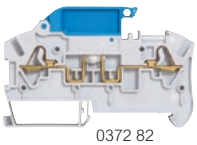
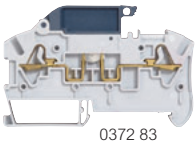
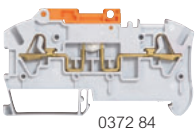
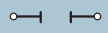
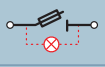
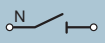
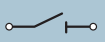
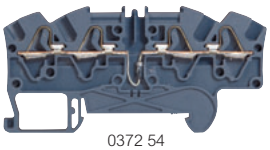
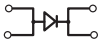
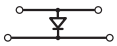
**see p. 154-161**

(1) Rigid cable capacity : 2·5 mm² max. only when used with bridging comb

# Viking 3 terminal blocks – spring connection

**for copper cable**

See p. 138-139 for product detail

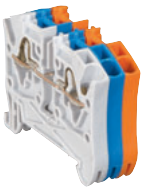
| | | | | TERMINAL TYPE |
|---|---|---|---|---|
|  0372 60 0372 61 0372 64  0372 40 0372 69  0372 68 0372 02  0372 47 0372 21 0372 42 | **Connection** (p. 138) | 1 connection - 1 entry/1 exit | |  |
| | | 1 connection - 1 entry/2 exits | | |
| | | 1 connection - 2 entries/2 exits | |  |
| | | 2 connections - 2 levels | | |
| 0372 70 0372 71  0372 72  0372 12 | **Protection** (p. 138) | 1 connection - 1 entry/1 exit - metal base | |  |
| | | 1 connection - 1 entry/2 exits - metal base | |  |
| | | 1 connection - 2 entries/2 exits - metal base | |  |
|  0372 80  0372 82  0372 83  0372 84 | **Disconnection** (p. 139) | 1 connection | Open (to be equipped) |  |
| | | | For fuse cartridge 5 x 20 with handle lever | |
| | | | For fuse cartridge 5 x 20 with handle lever + blown fuse indicator |  |
| | | | For neutral circuit with handle lever |  |
| | | | For standard circuit: With handle lever |  |
| | | | For standard circuit: With mini lever | |
| | | | For circuit not broken: With handle lever | |
| | | | For circuit not broken: With mini lever | |
|  0372 54 | **Function blocks** (p. 139) | 1 connection - 2 entries/2 exits | Diode carrier 1N4007 |  |
| | | 2 connections - 2 entries | Diode carrier 1N4007 |  |
| | | | With voltage presence LED | |

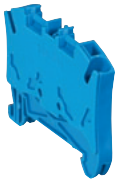
(1) Blown fuse indicator 12/24/48V⎓ /∿ Cat. No. 0375 24 or 110/250V∿ Cat. No. 0375 25 (p. 141)
(2) Lower level only
(3) Upper level only

# accessories
## for Viking 3 terminal blocks - spring connection

| TERMINAL BLOCK | | | | INSULATION | | BRIDGING COMBS | | | MEASUREMENT | ASSOCIATED PRODUCTS |
|---|---|---|---|---|---|---|---|---|---|---|
| Nominal cross section (mm²) | Width (mm) | Colour | Cat. Nos. | End cap | Separation and insulation divider | Comb for 2 blocks | Comb for 3 blocks | Comb for 10 blocks | Test meter adaptor | |
| 4 | 5 | | 0372 60 | 0375 86 | 0375 95 | 0375 02 | – | 0375 01 | 0375 27 | End stops (p. 140) |
| | | | 0372 00 | | | | | | | |
| | | | 0372 20 | | | | | | | |
| 4 | 6 | | 0372 61 | built-in | 0375 95 | 0375 05 | – | 0375 04 | 0375 27 | |
| | | | 0372 01 | | | | | | | |
| | | | 0372 21 | | | | | | | |
| 6 | 8 | | 0372 62 | built-in | – | – | 0375 07 | – | 0375 27 | Label holder for end stop (p. 140) |
| | | | 0372 02 | | | | | | | |
| 10 | 10 | | 0372 63 | built-in | – | 0375 82 | – | – | – | |
| | | | 0372 03 | | | | | | | |
| 16 | 12 | | 0372 64 | built-in | – | 0375 85 | – | – | – | |
| | | | 0372 04 | | | | | | | |
| 4 | 5 | | 0372 40 | 0375 87 | 0375 95 | 0375 02 | – | 0375 01 | 0375 27 | End caps (p. 140) |
| | | | 0372 41 | | | | | | | |
| | | | 0372 42 | | | | | | | |
| 4 | 6 | | 0372 43 | built-in | 0375 95 | 0375 05 | – | 0375 04 | 0375 27 | |
| | | | 0372 44 | | | | | | | |
| 4 | 5 | | 0372 46 | 0375 88 | 0375 95 | 0375 02 | – | 0375 01 | 0375 27 | |
| | | | 0372 47 | | | | | | | |
| 4 | 6 | | 0372 69 | built-in | – | 0375 05 | – | 0375 04 | 0375 27 | Dividers (p. 140) |
| | | | 0372 09 | | | | | | | |
| 4 | 5 | | 0372 67 | 0375 89 | 0375 96 | 0375 02 | – | 0375 01 | 0375 27(3) | |
| | | | 0372 07 | | | | | | | |
| 4 | 6 | | 0372 68 | built-in | 0375 96 | 0375 05 | – | 0375 04 | 0375 27(3) | |
| | | | 0372 08 | | | | | | | |
| 4 | 5 | | 0372 70 | 0375 86 | – | – | – | – | – | |
| 4 | 6 | | 0372 71 | | | | | | | |
| 6 | 8 | | 0372 72 | | | | | | | |
| 10 | 10 | | 0372 73 | | | | | | | |
| 16 | 12 | | 0372 74 | built-in | – | – | – | – | – | Blown fuse indicators (p. 141) |
| 4 | 5 | | 0372 10 | 0375 87 | – | – | – | – | – | |
| 4 | 6 | | 0372 11 | built-in | – | – | – | – | – | |
| 4 | 5 | | 0372 12 | 0375 88 | – | – | – | – | – | |
| 4 | 6 | | 0372 79 | built-in | – | – | – | – | – | |
| 2·5 | 6 | | 0372 80 | 0375 90 | – | 0375 05 | – | 0375 04 | 0375 27 | Shielding (p. 141) |
| | | | 0372 81 | 0375 90 | – | 0375 05 | – | 0375 04 | – | |
| | | | 0372 81 + 0375 24/25(1) | | | | | | | |
| | | | 0372 82 | | | | | | | |
| | | | 0372 83 | | | | | | | CAB 3 marking system (p. 154) |
| | | | 0372 84 | 0375 90 | – | 0375 05 | – | 0375 04 | 0375 27 | |
| | | | 0372 85 | 0375 90 | – | 0375 05 | – | 0375 04 | – | |
| | | | 0372 86 | 0375 90 | – | 0375 05 | – | 0375 04 | 0375 27 | |
| 4 | 5 | | 0372 54 | 0375 88 | 0375 95 | 0375 02 | – | 0375 01 | – | Starfix ferrules (p. 160) |
| | | | 0372 55 | 0375 89 | 0375 96 | 0375 02 | – | 0375 01 | – | |
| | | | 0372 56 | 0375 89 | 0375 96 | 0375 02(2) | – | 0375 01(2) | – | |

# Viking 3 terminal blocks – spring connection
## for copper cable

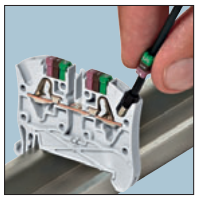

0372 60 + 0372 00 + 0372 20

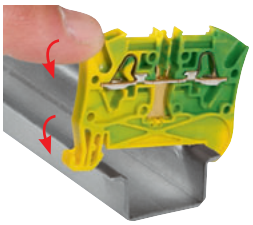

0372 01

0372 21

0372 63

0372 40


Automatic insertion of stripped cable with ferrule cap or rigid cable up to width of 6 mm


0372 70
Automatic fixing on rail ⊔

0372 72

0372 79

*Accessories (p. 140-141)*
*Technical characteristics (p. 144-145)*

Screwless connection system, stainless steel spring type
Compatible with either 2 rigid copper cables or flexible cables (0·5 mm² - 16 mm²) with or without ferrules (p. 160)
Direct tool-free insertion of a rigid cable. Direct tool-free insertion of a flexible cable with ferrule, up to 6 mm width
Facility for 2 bridging combs
Compatible with rails ⊔ EN 60715 depth 7·5 mm and 15 mm

## Connection

Grey for standard circuit
Blue for neutral conductor
Orange for circuit not broken by the master isolating device

| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Capacity: Flexible cable with ferrule (mm²) | Width (mm) |
|---|---|---|---|---|---|---|---|
| | | **1 connection - 2 cables - 1 entry/1 exit** | | | | | |
| 60 | 0372 60 | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| 60 | 0372 00 | Blue | | | | | |
| 60 | 0372 20 | Orange | | | | | |
| 50 | 0372 61(1) | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 4 | 6 |
| 50 | 0372 01(1) | Blue | | | | | |
| 50 | 0372 21(1) | Orange | | | | | |
| 50 | 0372 62(1) | Grey | 6 | 0·5 to 6 | 0·5 to 6 | 0·5 to 6 | 8 |
| 50 | 0372 02(1) | Blue | | | | | |
| 40 | 0372 63(1) | Grey | 10 | 0·75 to 10 | 0·75 to 10 | 0·75 to 10 | 10 |
| 40 | 0372 03(1) | Blue | | | | | |
| 10 | 0372 64(1) | Grey | 16 | 4 to 16 | 4 to 16 | 4 to 16 | 12 |
| 10 | 0372 04(1) | Blue | | | | | |
| | | **1 connection - 3 cables - 1 entry/2 exits** | | | | | |
| 60 | 0372 40 | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| 60 | 0372 41 | Blue | | | | | |
| 60 | 0372 42 | Orange | | | | | |
| 50 | 0372 43(1) | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 4 | 6 |
| 50 | 0372 44(1) | Blue | | | | | |
| | | **1 connection - 4 cables - 2 entries/2 exits** | | | | | |
| 60 | 0372 46 | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| 60 | 0372 47 | Blue | | | | | |
| 50 | 0372 69(1) | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 4 | 6 |
| 50 | 0372 09(1) | Blue | | | | | |
| | | **2 connections - 4 cables - 2 levels** | | | | | |
| 60 | 0372 67 | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| 60 | 0372 07 | Blue | | | | | |
| 50 | 0372 68(1) | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 4 | 6 |
| 50 | 0372 08(1) | Blue | | | | | |

(1) Built-in end cap

## Protection

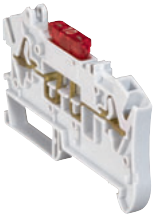
Metal base
Screwless fixing on rail
PEN from 10 mm²

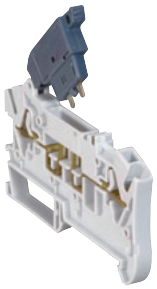
| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Capacity: Flexible cable with ferrule (mm²) | Width (mm) |
|---|---|---|---|---|---|---|---|
| | | **1 connection - 2 cables - 1 entry/1 exit** | | | | | |
| 60 | 0372 70 | Green/yellow | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| 50 | 0372 71(1) | Green/yellow | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 4 | 6 |
| 25 | 0372 72(1) | Green/yellow | 6 | 0·5 to 6 | 0·5 to 6 | 0·5 to 6 | 8 |
| 20 | 0372 73(1) | Green/yellow | 10 | 0·75 to 10 | 0·75 to 10 | 0·75 to 10 | 10 |
| 15 | 0372 74(1) | Green/yellow | 16 | 4 to 16 | 4 to 16 | 4 to 16 | 12 |
| | | **1 connection - 3 cables - 1 entry/2 exits** | | | | | |
| 40 | 0372 10 | Green/yellow | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| 30 | 0372 11(1) | Green/yellow | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 4 | 6 |
| | | **1 connection - 4 cables - 2 entries/2 exits** | | | | | |
| 40 | 0372 12 | Green/yellow | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| 30 | 0372 79(1) | Green/yellow | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 4 | 6 |

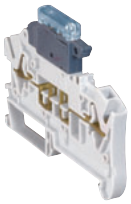
**For Starfix ferrules, crimping tools and CAB 3 marking system**

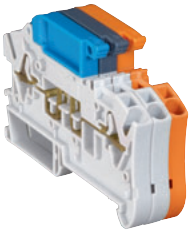
**see p. 154-161**

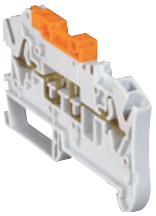
# Viking 3 terminal blocks – spring connection
## for copper cable (continued)

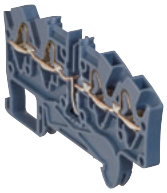

0372 80 with automotive-type fuse


0372 81 open


0372 81 with blown fuse indicator (p. 141)


0372 82 + 0372 83 + 0372 85


0372 84


0372 54

*Accessories (p. 140-141)*
*Technical characteristics (p. 144-145)*

Screwless connection system, stainless steel spring type
Compatible with either 2 rigid copper cables or flexible cables (0·5 mm² - 16 mm²) with or without ferrules (p. 160)
Direct tool-free insertion of a rigid cable. Direct tool-free insertion of a flexible cable with ferrule, up to 6 mm width
Facility for 2 bridging combs
Compatible with rails ⊔ EN 60715 depth 7·5 mm and 15 mm

## Disconnection

| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Capacity: Flexible cable with ferrule (mm²) | Width (mm) |
|---|---|---|---|---|---|---|---|
| | | **1 connection - 2 cables** | | | | | |
| | | Disconnection by means of blade type lever, handle lever or mini lever (with tool) | | | | | |
| | | **Open (to be equipped)** | | | | | |
| | | Can take a blade-type automotive fuse or a miniature circuit breaker | | | | | |
| 20 | 0372 80 | Grey | 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 6 |
| | | **For fuse cartridge 5 x 20 with handle lever** | | | | | |
| 20 | 0372 81 | Grey | 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 6 |
| | | **For neutral circuit with blue handle lever** | | | | | |
| 20 | 0372 82 | Grey/blue | 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 6 |
| | | **For standard circuit with handle lever** | | | | | |
| 20 | 0372 83 | Grey | 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 6 |
| | | **For standard circuit with mini lever** | | | | | |
| 20 | 0372 84 | Grey | 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 6 |
| | | **For circuit not broken with handle lever** | | | | | |
| | | Circuit not broken by the master isolating device | | | | | |
| 20 | 0372 85 | Orange | 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 6 |
| | | **For circuit not broken with mini lever** | | | | | |
| | | Circuit not broken by the master isolating device | | | | | |
| 20 | 0372 86 | Orange | 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 0·5 to 2·5 | 6 |

**Blown fuse indicators** (p. 141)

## Function blocks

| Pack | Cat. Nos. | Colour | Nominal cross section (mm²) | Capacity: Rigid cable (mm²) | Capacity: Flexible cable (mm²) | Capacity: Flexible cable with ferrule (mm²) | Width (mm) |
|---|---|---|---|---|---|---|---|
| | | **1 connection - 4 cables - 2 entries/2 outlets - diode-carrier** | | | | | |
| 60 | 0372 54 | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| | | **2 connections - 4 cables - 2 levels - diode carrier** | | | | | |
| 60 | 0372 55 | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |
| | | **2 connections - 4 cables - 2 levels - with LED** | | | | | |
| | | Voltage presence indicator (12/24V⎓ /∿) | | | | | |
| 60 | 0372 56 | Grey | 4 | 0·5 to 6 | 0·5 to 4 | 0·5 to 2·5 | 5 |

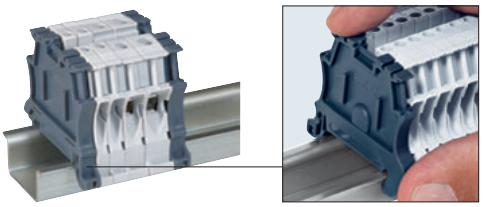
**Accessories** (p. 140-141)

**End stops** (p. 140)

**For Starfix ferrules, crimping tools and CAB 3 marking system**

**see p. 154-161**

# Viking 3 accessories for terminal blocks

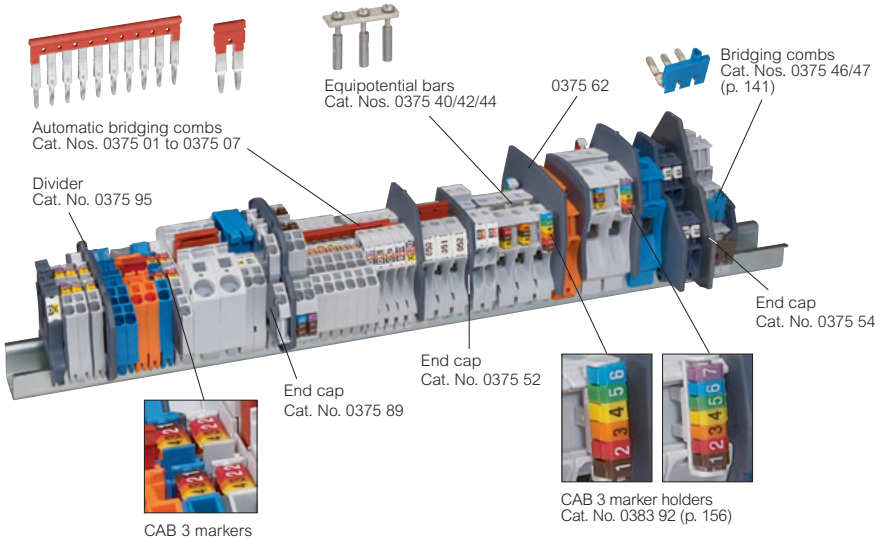


End stop 0375 10, screwless mounting

0375 11 with label holder 0395 96

0375 12 with CAB 3 markers

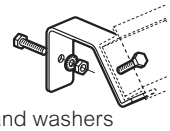
0375 13 with label holder 0395 96



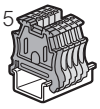

*Technical characteristics (p. 145)*

| Pack | Cat. Nos. | Rails |
|---|---|---|
| | | Length 2 m |
| 10 | 0374 04 | ⊔ EN 60715 depth 7·5 mm |
| 10 | 0374 07 | ⊔ depth 15 mm |

| Pack | Cat. Nos. | 45° mounting bracket |
|---|---|---|
| 10 | 0394 49 | Set of 2 supports for tilting a rail at an angle of 45°<br>Supplied with 4 x M6 screws, nuts and washers |



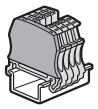
| Pack | Cat. Nos. | End stops |
|---|---|---|
| | | Grey<br>Compatible with CAB 3 marking system |
| 50 | 0375 10 | **6 mm width**<br>Screwless mounting<br>For rails ⊔ depth 15 mm and ⊔ EN 60715 depth 7·5 mm and 15 mm<br>Accepts label holder Cat. No. 0395 96<br>Acts as end cap for screw terminal blocks 1 entry/1 exit 5, 6, 8 and 10 mm width |
| 20 | 0375 11 | **8 mm width**<br>For rails ⊔ depth 15 mm and ⊔ EN 60715 depth 7·5 mm and 15 mm<br>Accepts label holder Cat. No. 0395 96 |
| 10 | 0375 12 | **10 mm width**<br>For rails ⊔ depth 15 mm and ⊔ EN 60715 depth 7·5 mm (except for rail fixed on plate) and 15 mm<br>- IP 2X terminal block with flat steel bar 12 x 2 mm Cat. No. 0048 19 (p. 42)<br>- Copper bar 12 x 4 mm Cat. No. 0373 89 (p. 45)<br>- Shielding bar 10 x 3 mm Cat. No. 0375 34 (p. 141) |
| 20 | 0375 13 | **12 mm width**<br>For rails ⊏⊐ EN 60715, ⊔ depth 15 mm and ⊔ EN 60715 depth 7·5 mm and 15 mm |

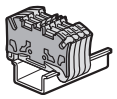


| Pack | Cat. Nos. | Identification accessories |
|---|---|---|
| 20 | 0395 96 | **Transparent label holder**<br>With variable angle<br>Fixing on end stops Cat. Nos. 0375 10/11<br>Supplied with label 32 x 9·5 mm<br>Compatible with label Cat. No. 0395 97 |
| 20 | 0395 97 | **Label**<br>For engraving 28 x 9·5 mm<br>For label holder Cat. No. 0395 96. Flexible ABS<br>White background, black engraving |
| 10 | 0395 98 | **Black felt tip pen**<br>For permanent marking |

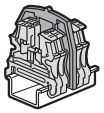
**CAB 3® marking system** (p. 154-156)

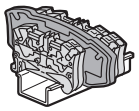
| Pack | Cat. Nos. | End caps |
|---|---|---|
| | | Grey |
| | | **For screw terminal blocks** |
| 100 | 0375 50 | 1 entry/1 exit 5, 6, 8 and 10 mm width |
| 20 | 0375 51 | 1 entry/1 exit 12 and 15 mm width |
| 20 | 0375 52 | 2 entries/2 exits |
| 20 | 0375 53 | 2 levels |
| 20 | 0375 54 | 3 levels |
| 20 | 0375 55 | Disconnection terminal 6 mm width and function blocks 5 mm width |
| 20 | 0375 56 | Disconnection terminal fuse cartridge 5 x 20 with screwed plug |
| 10 | 0375 57 | Disconnection for measurement |
| | | **For spring terminal blocks with 5 mm width**<br>5 mm pitch block becomes 6 mm pitch with end cap fitted<br>Permits termination of a 4 mm² cable complete with ferrule |
| 50 | 0375 86 | 1 entry/1 exit |
| 50 | 0375 87 | 1 entry/2 exits |
| 20 | 0375 88 | 2 entries/2 exits |
| 20 | 0375 89 | 2 levels |
| | | **For spring terminal blocks with 6 mm width** |
| 20 | 0375 90 | Disconnection type |



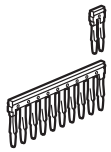


| Pack | Cat. Nos. | Separation and insulation dividers |
|---|---|---|
| | | Grey |
| | | **For screw terminal blocks** |
| 20 | 0375 60 | 1 entry/1 exit 5, 6, 8 and 10 mm width |
| 10 | 0375 61 | 1 entry/1 exit 12 and 15 mm width |
| 10 | 0375 62 | 2 entry/2 exits and disconnection 6 mm width blocks |
| 10 | 0375 63 | 2 levels |
| | | **For spring terminal blocks** |
| 10 | 0375 95 | 1 entry/1 exit, 1 entry/2 exits and 2 entry/2 exits 5 and 6 mm width |
| 10 | 0375 96 | 2 levels |



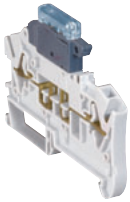


| Pack | Cat. Nos. | Bridging accessories |
|---|---|---|
| | | **Bridging combs for screw and spring terminal blocks**<br>Front mounting (automatic insertion), screwless<br>Isolated and separable. Consecutive or alternating connection. Red |
| 20 | 0375 01(1) | For 10 blocks with 5 mm width |
| 50 | 0375 02(1) | For 2 blocks with 5 mm width |
| 20 | 0375 04(1) | For 10 blocks with 6 mm width |
| 50 | 0375 05(1) | For 2 blocks with 6 mm width |
| 20 | 0375 07(1) | For 3 blocks with 8 mm width |



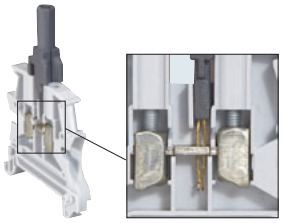
(1) Blocks Cat. Nos. 0371 51/52 : upper level only
Block Cat. No. 0372 56 : lower level only

# Viking 3 accessories for terminal blocks (continued)

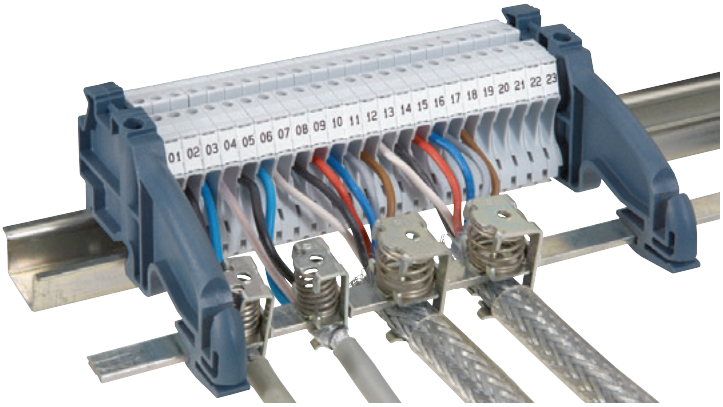


0372 81 + 0375 24

0371 63 + 0371 03 + 0375 66



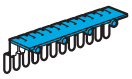
0371 61 + 0375 27



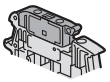
Shielding terminal block with end stops Cat. No. 0375 12 (p. 140), shielding bar Cat. No. 0375 34 and clamps Cat. Nos. 0375 30/31

*Technical characteristics (p. 145)*

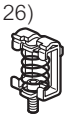
| Pack | Cat. Nos. | Bridging accessories (continued) |
|---|---|---|
| | | **Bars for screw terminal blocks** |
| | | Front mounting with screws. Pre-assembled |
| | | Consecutive or alternating connection |
| 10 | 0375 40 | For 12 blocks with 10 mm width |
| 10 | 0375 42[1] | For 12 blocks with 12 mm width |
| 10 | 0375 44 | For 12 blocks with 15 mm width |
| | | **Bridging combs for 3-level screw terminal blocks** |
| | | For lower and intermediate levels of blocks |
| | | Cat. Nos. 0371 51/52. Side mounting |
| | | Isolated and separable |
| 10 | 0375 46 | Brown. For 12 blocks with 5 mm width |
| 10 | 0375 47 | Blue. For 12 blocks with 5 mm width |
| | | **Bridging combs for spring terminal blocks** |
| | | Front mounting (automatic insertion), screwless |
| | | Isolated. Red |
| 20 | 0375 82 | For 2 blocks with 10 mm width |
| 20 | 0375 85 | For 2 blocks with 12 mm width |

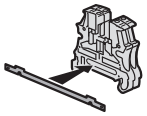


| Pack | Cat. Nos. | Accessories for disconnection blocks |
|---|---|---|
| | | For screw and spring terminal blocks |
| | | **Blown fuse indicators** |
| | | Clip directly on to blocks Cat. Nos. 0371 81 or 0372 81 |
| 50 | 0375 24 | 12/24/48 V⎓ /∿ for block with fuse cartridge 5 x 20 with handle lever |
| 50 | 0375 25 | 110/250 V∿ for block with fuse cartridge 5 x 20 with handle lever |

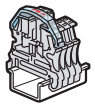


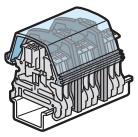
| Pack | Cat. Nos. | Shielding accessories |
|---|---|---|
| | | Ensure safe, simple connection of cable shielding |
| | | **Shielding clamps** |
| | | For screw and spring terminal blocks |
| | | - mounted by pivoting on collector bar 10 x 3 mm Cat. No. 0375 34 |
| | | - mounted on plate with M4 screws (supplied) |
| | | - mounted on rail ⊥ with Cat. No. 0364 69 (p. 26) |
| 10 | 0375 30 | For cable diameter 3 to 8 mm |
| 10 | 0375 31 | For cable diameter 4 to 13·5 mm |
| 4 | 0375 32 | For cable diameter 10 to 20 mm |
| | | **Shielding bar** |
| | | For screw and spring terminal blocks. Steel. Length 1 m. For use with end stop Cat. No. 0375 12 (p. 140) |
| 10 | 0375 34 | 10 x 3 mm |
| | | **Screening continuity bracket** |
| 50 | 0375 35 | For screw terminal blocks 1 entry/1 exit 5, 6, 8 and 10 mm width Connected with 2·8 x 0·8 mm clips or welded on. Capacity: 1 mm² |





| Pack | Cat. Nos. | Protective screens |
|---|---|---|
| | | **1 pole** |
| | | For screw terminal blocks 1 entry/1 exit |
| 10 | 0375 65 | 5 and 6 mm width |
| 10 | 0375 66 | 8 and 10 mm width |
| 10 | 0375 67 | 12 and 15 mm width |
| | | **Cut to length** |
| | | Length 1 m |
| | | Mounted on separation and insulation divider |
| | | For screw terminal blocks 1 entry/1 exit |
| 10 | 0375 68 | 5, 6, 8 and 10 mm width (divider Cat. No. 0375 60, p. 140) |
| 10 | 0375 69 | 12 and 15 mm width (divider Cat. No. 0375 61, p. 140) |





| Pack | Cat. Nos. | Test meter adaptor |
|---|---|---|
| | | **For screw and spring terminal blocks** |
| 10 | 0375 27[2] | Measurement socket for Ø4 mm plug for blocks with 5 and 6 mm width |

(1) Except for Cat. No. 0371 87
(2) Except for disconnection blocks with handle lever, screw terminal block with LED and spring function blocks. 2 and 3-level terminal blocks : upper level only

# Viking 3 terminal blocks – screw connection

## ■ Characteristics and dimensions (mm)

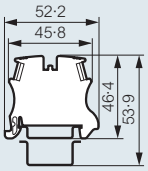
V2 polyamide according to UL 94, 960 °C according to IEC EN 60695-2-11

### Connection blocks

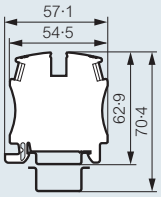
| Cat. Nos. | Voltage (V) | | | Current (A) | | | | Nominal cross section | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IEC | CSA | UL | Ie | IEC | CSA | UL | IEC (mm²) | CSA (AWG) | UL (AWG) |
| 0371 00/20/30/60 | 800 | 600 | 600 | 27 | 24 | 20 | 20 | 2·5 | 12 | 12 |
| 0371 01/21/31/61 | | | | 36 | 32 | 30 | 30 | 4 | 10 | 10 |
| 0371 02/62 | | | | 48 | 41 | 50 | 50 | 6 | 8 | 8 |
| 0371 03/63 | | | | 63 | 57 | 60 | 60 | 10 | 6 | 6 |
| 0371 04/64 | | | | 85 | 76 | 85 | 85 | 16 | 4 | 4 |
| 0371 05/65 | | | | 138 | 125 | 115 | 115 | 35 | 2 | 2 |
| 0371 07/67 | 500 | 300 | 300 | 27 | 24 | 20 | 20 | 2·5 | 12 | 12 |
| 0371 08/68 | | | | 36 | 32 | 30 | 30 | 4 | 10 | 10 |
| 0371 09/69 | | | | 36 | 32 | 30 | 30 | 4 | 10 | 10 |
| 0371 66 | 1 000 | 600 | 600 | 213 | 192 | 200 | 200 | 70 | 000 | 000 |
| 0371 77 | 800 | 600 | 600 | 36 | 32 | 30 | 30 | 4 | 10 | 10 |
| 0371 78 | | | | 48 | 41 | 50 | 50 | 6 | 8 | 8 |

Cat. No. 0371 51 : see blocks for sensors
IEC 60947-7-1, CSA no. 22-2 no. 158, UL 1059
Ie: Rated current NF C 15100 table 52H, column 4

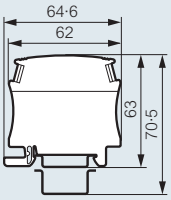
Cat. Nos. 0371 00/01/ 02/03/20/21/30/31/60/ 61/62/63/77/78



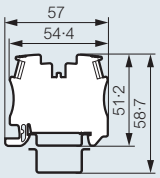

Cat. Nos. 0371 04/05/64/65



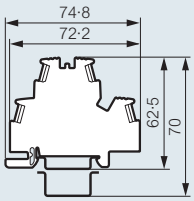

Cat. No. 0371 66




Cat. Nos. 0371 09/69




Cat. Nos. 0371 07/08/67/68




**Approved by ATEX :**
**LCIE 07 ATEX 0010 U-0081 Ex II 1 or 2 G or D Ex e/i/tD/iD II**

The terminal blocks with screw connection covered by this certificate are 1-, 2- and 3-level connection terminal blocks, and protection blocks with metal[1] and plastic base (detailed list on p. 132)
The main characteristics are :
Operating temperature : –30 °C to +55 °C
Maximum temperature of materials : +85 °C

Working voltage acc. to EN 60079-7 : 1-level terminal blocks : 500 V
Blocks with 2 entries - 2 exits : 250 V
2 and 3-level terminal blocks : 250 V

Rated current:

| Conductor cross section (mm²) | 2·5 | 4 | 6 | 10 | 16 | 35 | 70 |
|---|---|---|---|---|---|---|---|
| Rated current (A) | 18 | 23 | 30 | 42 | 57 | 93 | 144 |

Certificate of conformity of components is available on request

(1) Except for Cat. No. 0371 76

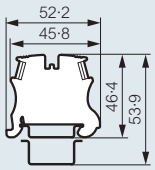
### Protection blocks

| Cat. Nos. | Voltage (V) | | | Nominal cross section | | |
|---|---|---|---|---|---|---|
| | IEC | CSA | UL | IEC (mm²) | CSA (AWG) | UL (AWG) |
| 0371 70 | 800 | 600 | 600 | 2·5 | 12 | 12 |
| 0371 71 | | | | 4 | 10 | 10 |
| 0371 72 | | | | 6 | 8 | 8 |
| 0371 73[1] | | | | 10 | 6 | 6 |
| 0371 74[1] | | | | 16 | 4 | 4 |
| 0371 75[1] | | | | 35 | 2 | 2 |
| 0371 76 | – | – | – | 35 | – | – |
| 0371 77 | 800 | 600 | 600 | 4 | 10 | 10 |
| 0371 78 | | | | 6 | 8 | 8 |
| 0371 79 | 500 | 300 | 300 | 4 | 10 | 10 |

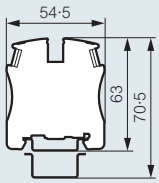
IEC 60947-7-1/7-2, CSA no. 22-2 no. 158, UL 1059

(1) PEN terminal blocks

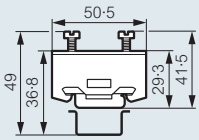
Cat. Nos. 0371 70/71/72/73



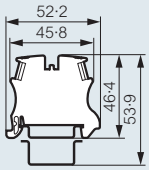

Cat. Nos. 0371 74/75



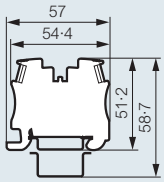

Cat. No. 0371 76




Cat. Nos. 0371 77/78




Cat. No. 0371 79




### Disconnection blocks

| Cat. Nos. | Voltage (V) | | | Current (A) | | | Nominal cross section | | |
|---|---|---|---|---|---|---|---|---|---|
| | IEC | CSA | UL | IEC | CSA | UL | IEC (mm²) | CSA (AWG) | UL (AWG) |
| 0371 80 | 500 | 300 | 300 | 15 | 15 | 15 | 2·5 | 12 | 12 |
| 0371 81 or 0371 80 + 0375 15 | 250 | 250 | 250 | 6·3 | 6·3 | 6·3 | | | |
| 0371 82 | 500 | 300 | 300 | 15 | 15 | 15 | | | |
| 0371 83 | | | | | | | | | |
| 0371 84 | | | | | | | | | |
| 0371 85 | | | | | | | | | |
| 0371 86 | | | | | | | | | |
| 0371 87 | 250 | 250 | 250 | 10 | 10 | 10 | 10 | | |

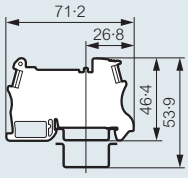
IEC 60947-7-1/7-3, CSA no. 22-2 no. 158, UL 1059

Power according to EN 60947-7-3

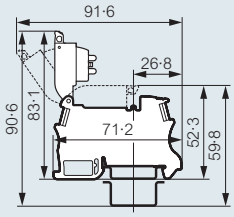
| Cat. Nos. | Short-circuit | | Short-circuit + overload | |
|---|---|---|---|---|
| | Separate blocks | Assembled blocks | Separate blocks | Assembled blocks |
| 0371 81 or 0371 80 + 0375 15[1] | 4 W / 6·3 A | 1·6 W/6·3 A | 1·6 W/6·3 A | – |
| | Pvk = 4·75 W | Pvk = 2 W | Pv = 1·65 W | – |
| 0371 87 | 4 W | 2·5 W | 1·6 W | – |
| | Pvk = 5 W | Pvk = 2·7 W | Pv = 1·8 W | – |

(1) With or without blown fuse indicator Cat. No. 0375 25

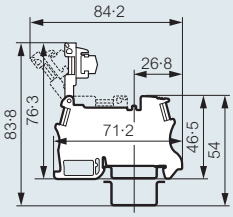
Cat. No. 0371 80



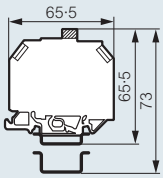

Cat. Nos. 0371 81/82/83/85




Cat. Nos. 0371 84/86




Cat. No. 0371 87

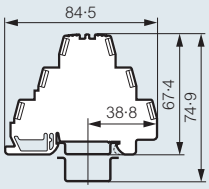


## Blocks for sensors and actuators/PNE

| Cat. Nos. | Voltage (V) | | | Current (A) | | | | Nominal cross section | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IEC | CSA | UL | Ie | IEC | CSA | UL | IEC (mm²) | CSA (AWG) | UL (AWG) |
| 0371 51<br>0371 52 | 400 | 300 | 300 | 27 | 24 | 20 | 20 | 2·5 | 12 | 12 |

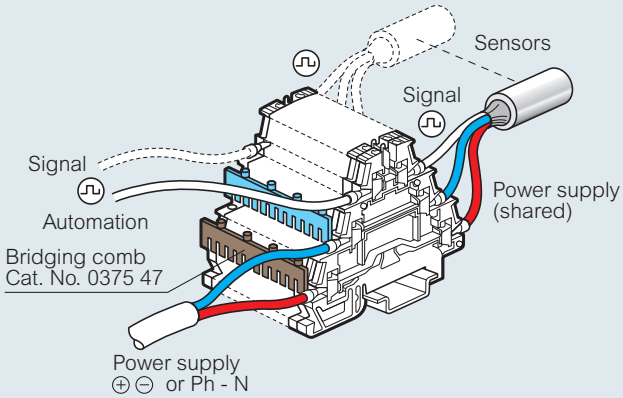
IEC 60947-7-1/7-2, CSA no. 22-2 no. 158, UL 1059
Ie: Rated current NF C 15100 table 52H, column 4

Cat. Nos. 0371 51/52

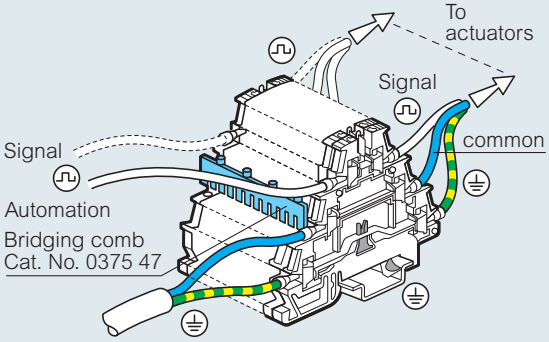



### Wiring diagram

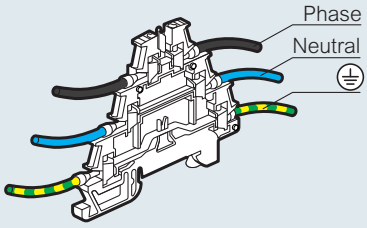
Block for sensor Cat. No. 0371 51




Block for actuator Cat. No. 0371 52




PNE block Cat. No. 0371 52




## Stripped lengths (mm)

| Screw terminal width (mm) | Rigid or flexible cable |
|---|---|
| 5 | 6 to 8 |
| 6 | |
| 8 | 10 to 12 |
| 10 | |
| 12 | 13 to 17 |
| 15 | 14 to 18 |
| 22 | 15 to 22 |

### Protection against fire and panic risks in public buildings/UTE C 12-201 guide

Art. EL 3, definitions : "Security installations are those that have to be put into or maintained in service to ensure the evacuation of the public" or facilitate the intervention of the first-aid

Art. EL 16, power supply circuits in security installations section 1a: "…the corresponding junction or deviation devices and their enclosures except for the waterproofing systems must satisfy the incandescent cable test defined in the standard in force, the temperature of the incandescent cable being 960 °C"
Viking 3 terminal blocks satisfy the incandescent cable test 960 °C according to standard IEC 60695-2-11

# Viking 3 terminal blocks – spring connection

## ■ Characteristics and dimensions (mm)

V2 polyamide according to UL 94, 960 °C according to IEC EN 60695-2-11

### Connection blocks

| Cat. Nos. | Voltage (V) | | | Current (A) | | | | Nominal cross section | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IEC | CSA | UL | Ie | IEC | CSA | UL | IEC (mm²) | CSA (AWG) | UL (AWG) |
| 0372 00 | 800 | 600 | 600 | 36 | 32 | 20 | 20 | 4 | 12 | 12 |
| 0372 01 | | | | | | | | | | |
| 0372 02 | | | | 48 | 41 | 30 | 30 | 6 | 10 | 10 |
| 0372 03 | | | | 63 | 57 | 50 | 50 | 10 | 8 | 8 |
| 0372 04 | | | | 85 | 76 | 65 | 65 | 16 | 6 | 6 |
| 0372 07 | 500 | 300 | 300 | 36 | 32 | 30 | 30 | 4 | 10 | 10 |
| 0372 08 | | | | | | | | | | |
| 0372 09 | 800 | 600 | 600 | | | 20 | 20 | | 12 | 12 |
| 0372 20 | | | | | | | | | | |
| 0372 21 | | | | | | | | | | |
| 0372 40 | | | | | | | | | | |
| 0372 41 | | | | | | | | | | |
| 0372 42 | | | | | | | | | | |
| 0372 43 | | | | | | | | | | |
| 0372 44 | | | | | | | | | | |
| 0372 46 | | | | | | | | | | |
| 0372 47 | | | | | | | | | | |
| 0372 60 | | | | | | | | | | |
| 0372 61 | | | | | | | | | | |
| 0372 62 | | | | 48 | 41 | 30 | 30 | 6 | 10 | 10 |
| 0372 63 | | | | 63 | 57 | 50 | 50 | 10 | 8 | 8 |
| 0372 64 | | | | 85 | 76 | 65 | 65 | 16 | 6 | 6 |
| 0372 67 | 500 | 300 | 300 | 36 | 32 | 30 | 30 | 4 | 10 | 10 |
| 0372 68 | | | | | | | | | | |
| 0372 69 | 800 | 600 | 600 | | | 20 | 20 | | 12 | 12 |

IEC 60947-7-1, CSA no. 22-2 no. 158, UL 1059
Ie: Rated current NF C 15100 table 52H, column 4

### Protection blocks

| Cat. Nos. | Voltage (V) | | | Nominal cross section | | |
|---|---|---|---|---|---|---|
| | IEC | CSA | UL | IEC (mm²) | CSA (AWG) | UL (AWG) |
| 0372 10 | 800 | 600 | 600 | 4 | 10 | 10 |
| 0372 11 | | | | | | |
| 0372 12 | | | | | | |
| 0372 70 | | | | | | |
| 0372 71 | | | | | | |
| 0372 72 | | | | 6 | | |
| 0372 73(1) | | | | 10 | 8 | 8 |
| 0372 74(1) | | | | 16 | 6 | 6 |
| 0372 79 | | | | 4 | 10 | 10 |

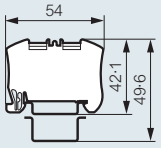
IEC 60947-7-2, CSA no. 22-2 no. 158, UL 1059
(1) PEN terminal blocks

### Function blocks

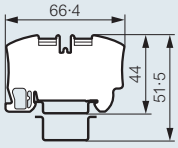
| Cat. Nos. | Voltage (V) | | | Current (A) | | | Nominal cross section | | |
|---|---|---|---|---|---|---|---|---|---|
| | IEC | CSA | UL | IEC | CSA | UL | IEC (mm²) | CSA (AWG) | UL (AWG) |
| 0372 54 | 500 | 300 | 300 | 1 | 1 | 1 | 4 | 14 | 14 |
| 0372 55 | | | | | | | | | |
| 0372 56 | 12 to 24 | 12 to 24 | 12 to 24 | – | – | – | | | |

IEC 60947-7-1, CSA no. 22-2 no. 158, UL 1059

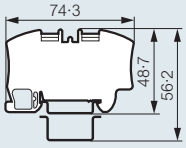
Cat. Nos. 0372 00/01/20/21/60/61/70/71



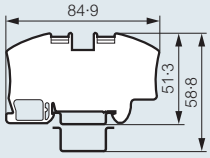

Cat. Nos. 0372 02/62/72



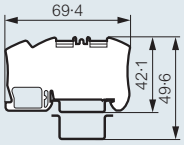

Cat. Nos. 0372 03/63/73



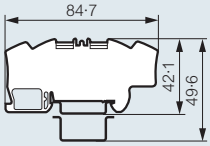

Cat. Nos. 0372 04/64/74



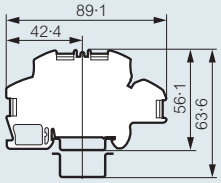

Cat. Nos. 0372 10/11/40/41/42/43/44




Cat. Nos. 0372 09/12/46/47/54/69/79

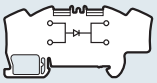



Cat. Nos. 0372 07/08/55/56/67/68

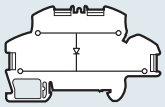



### Function block schematic diagrams

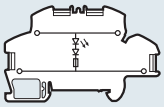
Cat. No. 0372 54



Cat. No. 0372 55



Cat. No. 0372 56



Diode for Cat. Nos. 0372 54/55
- 1N4007 type 1 A
- direct current ⎓ 1 A
- peak inverse voltage 1 000 V
- inverse current 5 µA at 25 °C

**Approved by ATEX :**
**LCIE 07 ATEX 0010 U-0081 Ex II 1 or 2 G or D Ex e/i/tD/iD II**

The terminal blocks with spring connection covered by this certificate are 1- and 2-level connection terminal blocks, and blocks for protection conductor with metal base (detailed list on p. 134)
The main characteristics are :
Operating temperature : –30 °C to +55 °C
Maximum temperature of materials : +85 °C

Working voltage acc. to EN 60079-7 : 1-level terminal blocks : 500 V
Blocks with 2 entries - 2 exits : 500 V
2-level terminal blocks : 250 V

Rated current:

| Conductor cross section (mm²) | 4 | 6 | 10 | 16 |
|---|---|---|---|---|
| Rated current (A) | 23 | 30 | 42 | 57 |

Certificate of conformity of components is available on request

### Disconnection blocks

| Cat. Nos. | Voltage (V) | | | Current (A) | | | Nominal cross section | | |
|---|---|---|---|---|---|---|---|---|---|
| | IEC | CSA | UL | IEC | CSA | UL | IEC (mm²) | CSA (AWG) | UL (AWG) |
| 0372 80 | 500 | 300 | 300 | 15 | 15 | 15 | 2·5 | 14 | 14 |
| 0372 81 or 0372 80 + 0375 15 | 250 | 250 | 250 | 6·3 | 6·3 | 6·3 | | | |
| 0372 82 | 500 | 300 | 300 | 15 | 15 | 15 | | | |
| 0372 83 | | | | | | | | | |
| 0372 84 | | | | | | | | | |
| 0372 85 | | | | | | | | | |
| 0372 86 | | | | | | | | | |

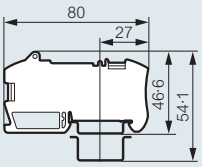
IEC 60947-7-1/7-3, CSA no. 22-2 no. 158, UL 1059

Power according to EN 60947-7-3

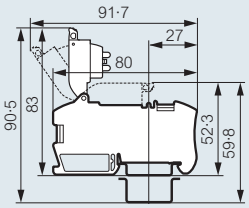
| Cat. Nos. | Short-circuit | | Short-circuit + overload | |
|---|---|---|---|---|
| | Separate blocks | Assembled blocks | Separate blocks | Assembled blocks |
| 0372 81 or 0372 80 + 0375 15(1) | 4 W / 6·3 A | 1·6 W / 6·3 A | 1·6 W / 6·3 A | – |
| | Pvk = 4·75 W | Pvk = 2 W | Pv = 1·65 W | – |

(1) With or without blown fuse indicator Cat. No. 0375 25

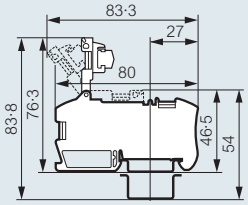
Cat. No. 0372 80




Cat. Nos. 0372 81/82/83/85




Cat. No. 0372 84/86



### Stripped lengths (mm)

| Spring terminal width (mm) | Rigid or flexible cable |
|---|---|
| 5 | 8 to 12 |
| 6 | |
| 8 | |
| 10 | 8 to 13 |
| 12 | 8 to 15 |

**Protection against fire and panic risks in public buildings/UTE C 12-201 guide**

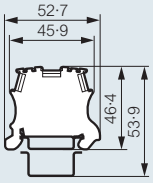
Art. EL 3, definitions : "Security installations are those that have to be put into or maintained in service to ensure the evacuation of the public" or facilitate the intervention of the first-aid

Art. EL 16, power supply circuits in security installations section 1a: "…the corresponding junction or deviation devices and their enclosures except for the waterproofing systems must satisfy the incandescent cable test defined in the standard in force, the temperature of the incandescent cable being 960 °C"
Viking 3 terminal blocks satisfy the incandescent cable test 960 °C according to standard IEC 60695-2-11

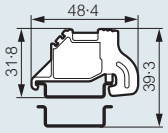
## ■ Characteristics and dimensions (mm)

### End stops

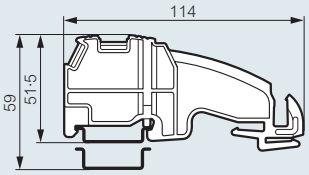
Cat. No. 0375 10



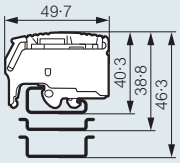

Cat. No. 0375 11




Cat. No. 0375 12




Cat. No. 0375 13




### End caps

| Cat. Nos. | Thickness (mm) |
|---|---|
| 0375 50 | 2 |
| 0375 51 | 2·5 |
| 0375 52 | 2 |
| 0375 53 | 2 |
| 0375 54 | 2·5 |
| 0375 55 | 2 |
| 0375 56 | 1·4 |
| 0375 57 | 1·4 |
| 0375 86 | 1 |
| 0375 87 | 1·1 |
| 0375 88 | 1·1 |
| 0375 89 | 1·1 |
| 0375 90 | 2 |

### Separation and insulation dividers

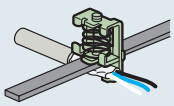
| Cat. Nos. | Thickness (mm) |
|---|---|
| 0375 54 | 2·5 |
| 0375 60 | 2·5 |
| 0375 61 | 2·6 |
| 0375 62 | 2·5 |
| 0375 63 | 2·5 |
| 0375 95 | 2·8 |
| 0375 96 | 2·7 |

### Bridging combs/bars

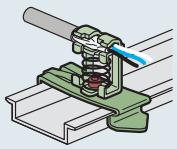
| Cat. Nos. | Cross-section ($mm^2$) |
|---|---|
| 0375 01 | 2·5 |
| 0375 02 | 2·5 |
| 0375 04 | 4 |
| 0375 05 | 4 |
| 0375 07 | 6 |
| 0375 40 | 10 |
| 0375 42 | 16 |
| 0375 44 | 35 |
| 0375 46 | 2·5 |
| 0375 47 | 2·5 |
| 0375 82 | 10 |
| 0375 85 | 16 |

### Shielding accessories

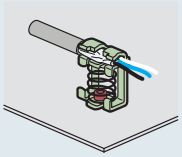
Mounting on bar
10 x 3
Cat. No. 0375 34

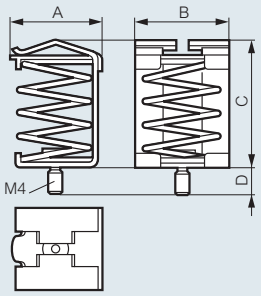


Mounting on rail
with accessory
Cat. No. 0364 69(1)



Mounting on plate






| Cat. Nos. | A | B | C | D |
|---|---|---|---|---|
| 0375 30 | 13·5 | 18 | 26 | 5·6 |
| 0375 31 | 20 | 20·3 | 31·4 | 5·3 |
| 0375 32 | 24·8 | 26 | 40 | 5·3 |

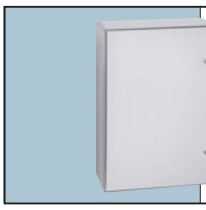
(1) See enclosures equipment and fixing accessories p. 26

# Viking 3 heavy duty terminal blocks
## selection chart

| | | TERMINAL TYPE | | TERMINAL BLOCK | | | | INSULATION | BRIDGING COMB | PROTECTION | | ASSOCIATED PRODUCTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Max. connection ($mm^2$) | Width (mm) | Cat. Nos. Rail | Cat. Nos. Rail | Separation and insulation divider | Shunt | Cover 4 blocks | Cover 3 blocks | CAB 3 marking system (p. 154) |
| 0390 11 | **Heavy duty terminal blocks** (p. 147) | Cable - cable | | – | 42 | 0390 10 | – | – | 0394 46 | – | – | |
| | | | | | 55 | 0390 11 | – | – | 0394 47 | – | – | |
| 0390 14 | | Cable lug - cable lug | | – | 36 | 0390 13 | – | – | 0394 46 | – | – | |
| | | | | | 42 | 0390 14 | – | – | 0394 46 | – | – | |
| | | | | | 55 | 0390 15 | – | – | 0394 47 | – | – | |
| 0390 21 | | Cable lug - cable | | – | 42 | 0390 17 | – | – | 0394 46 | – | – | |
| | | | | | 55 | 0390 18 | – | – | 0394 47 | – | – | |
| | | Cable - cable lug | | – | 42 | 0390 20 | – | – | 0394 46 | – | – | |
| | | | | | 55 | 0390 21 | – | – | 0394 47 | – | – | |
| 0390 32 | **Heavy duty terminal blocks** (p. 148) | For copper bars and cable lugs | | 35 | 26 | 0390 71 | 0390 31 | 0394 77 | – | 0394 88 | – | |
| | | | | 70 | 34 | 0390 72 | 0390 32 | 0394 78 | – | 0394 86 | – | |
| | | | | 120 | 34 | 0390 73 | 0390 33 | 0394 78 | – | 0394 86 | – | |
| | | | | 240 | 46 | 0390 74 | 0390 34 | 0394 78 | – | 0394 89 | 0394 86 | |

**For CAB 3 marking system**

**see p. 154**

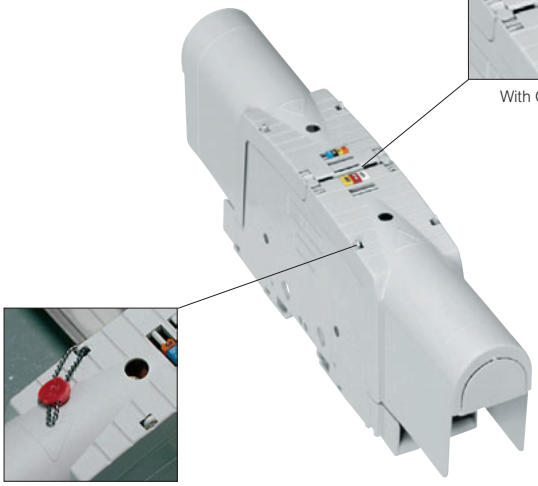


**For enclosures**

**see p. 14-23**

# Viking 3 heavy duty terminal blocks
## for copper and aluminium cables

With CAB 3 marking

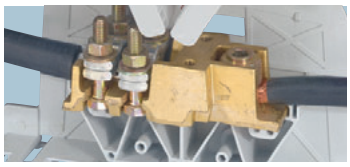



Possibility of sealing

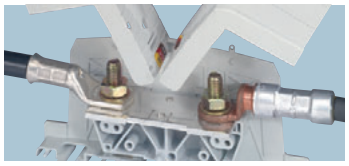
0390 10

### Termination options

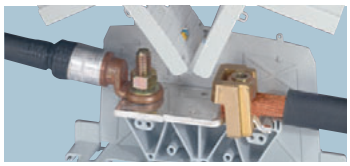
Cable - Cable



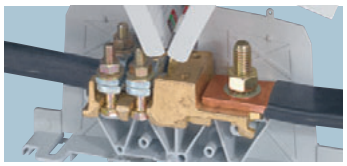
Cable lug - Cable lug

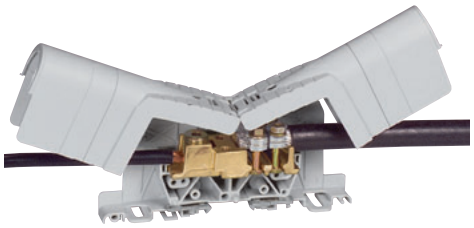


Cable lug - Cable



Cable - Cable lug

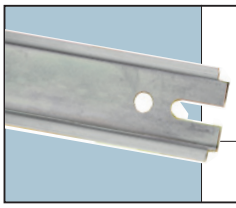



0390 11 (interior view)

*Technical characteristics (p. 149)*

| Pack | Cat. Nos. | Heavy duty terminal blocks | | |
|---|---|---|---|---|
| | | **For copper and aluminium cables**<br>IK 04<br>Conform to IEC 60947-7-1, EN 60947-7-1<br>UL 1059 and 486 E - CSA 22-2<br>Fire resistant IEC 60695-2-11 : 960°C (except cover)<br>V2 according to UL 94<br>Bridging the gap between the enclosure and external cables<br>Fixed using metal clip for rails ⊔ 15 mm depth and ⊔ EN 60715, 15 mm depth or on plate with screws<br>Fitted with hinged covers with cut-outs<br>Permits the use of CAB 3 markers<br>Test via test plug Ø4 closed covers<br>Blocks with identical width can be joined using a threaded rod<br>Supports shunt with Cat. Nos. 0394 46/47 | | |
| | | **Cable - Cable** | | |
| | | Rigid or flexible connecting cable (mm²) | Rigid or flexible connecting cable (mm²) | Width (mm) |
| 5 | 0390 10 | Al/Cu 35 to 120 | Cu 35 to 70 | 42 |
| 5 | 0390 11 | Al/Cu 70 to 300 | Cu 70 to 150 | 55 |
| | | **Cable lug - Cable lug** | | |
| | | Connecting plate max. (mm²) | Connecting plate max. (mm²) | Width (mm) |
| 5 | 0390 13 | Al/Cu 95 | Al/Cu 95 | 36 |
| 5 | 0390 14 | Al/Cu 150 | Al/Cu 150 | 42 |
| 5 | 0390 15 | Al/Cu 300 | Al/Cu 300 | 55 |
| | | **Cable lug - Cable** | | |
| | | Connecting plate max. (mm²) | Rigid or flexible connecting cable (mm²) | Width (mm) |
| 5 | 0390 17 | Al/Cu 150 | Cu 35 to 95 | 42 |
| 5 | 0390 18 | Al/Cu 300 | Cu 70 to 150 | 55 |

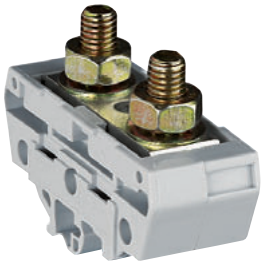
| Pack | Cat. Nos. | Accessories |
|---|---|---|
| | | **Shunt** |
| 5 | 0394 46 | For blocks with width 36 and 42 mm |
| 5 | 0394 47 | For blocks with width 55 mm |



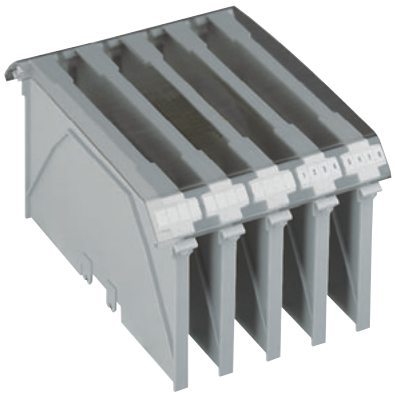
**For DIN rails**

**see p. 140**

# Viking 3 heavy duty terminal blocks
## for copper bars and cable lugs



0390 32



0394 78 + 86

*Technical characteristics (p. 149)*

## Heavy duty terminal blocks

**For copper bars or cable lugs**

Conform to IEC EN 60947-7-1
Fire resistance : 960 °C, IEC EN 60695-2-11
V2 according to UL94
Insulaing material : polyamide –30 °C to +100 °C
Bridging the gap between the enclosure and external cables
Plastic foot
For use with terminal marker sheets

**For symmetrical rails**

Fixed using metal clip on rails ⊔ 15 mm depth and ⊔ EN 60715, 15 mm depth (p. 140)

| Pack | Cat. Nos. | Connecting max. (mm²) | Width of plate (mm) | Stud (Ø) | Width (mm) |
|---|---|---|---|---|---|
| 5 | 0390 71 | 35 | 15 | M 8 | 26 |
| 5 | 0390 72 | 70 | 20 | M 10 | 34 |
| 5 | 0390 73 | 120 | 25 | M 10 | 34 |
| 5 | 0390 74 | 240 | 35 | M 12 | 46 |

**For asymmetrical rails**

Fixed using metal clip on rails ⊏ EN 60715 (p. 26)

| Pack | Cat. Nos. | Connecting max. (mm²) | Width of plate (mm) | Stud (Ø) | Width (mm) |
|---|---|---|---|---|---|
| 5 | 0390 31 | 35 | 15 | M 8 | 26 |
| 5 | 0390 32 | 70 | 20 | M 10 | 34 |
| 5 | 0390 33 | 120 | 25 | M 10[1] | 34 |
| 5 | 0390 34 | 240 | 35 | M 12[2] | 46 |

## Accessories

**Separation barriers**

Take protective covers
Marking possible with CAB 3 marking system (p. 154)

| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0394 77 | For terminals with width 26 mm |
| 10 | 0394 78 | For terminals with width 34 and 46 mm |

**Protective covers**

For mounting on separation barriers

| Pack | Cat. Nos. | |
|---|---|---|
| 5 | 0394 86 | For 3 terminals with width 46 mm or for 4 terminals with width 34 mm |
| 5 | 0394 88 | For 4 terminals with width 26 mm |
| 5 | 0394 89 | For 4 terminals with width 46 mm |

**End stops** (p. 140)

**For CAB 3 marking system**

**see p. 154**

**For enclosures**

**see p. 14-23**

# Viking 3 heavy duty terminal blocks

## ■ Characteristics of heavy duty terminal blocks for copper and aluminium cables

IK 04
Conform to IEC 60947-7-1, EN 60947-7-1
UL 1059 and 486 E - CSA 22-2
Fire resistant IEC 60695-2-11 : 960 °C (except cover)
V2 according to UL 94
Insulation voltage Ui : 1 000 V
Impulse voltage Uimp : 12 kV
Insulating material :
- polyamide body –30 °C to +100 °C
- polypropylene cover –25 °C to +100 °C

### Connection table

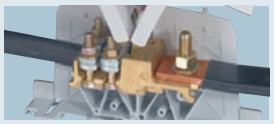
| Cat. Nos. | Connection (mm²) | Width of plate (mm) | Screw Ø | Connection (mm²) | Width of plate (mm) | Screw Ø | Width (mm) |
|---|---|---|---|---|---|---|---|
| **Cable - Cable** | | | | | | | |
| **0390 10** | Rigid or flexible Cu/Al: 35 to 120 | – | – | Rigid or flexible Cu: 35 to 70 | – | – | 42 |
| **0390 11** | Rigid or flexible Cu/Al: 70 to 300 | – | – | Rigid or flexible Cu: 70 to 150 | – | – | 55 |
| **Cable lug - Cable lug** | | | | | | | |
| **0390 13** | Cu/Al: max. 95 | 28 | M 8 | Cu/Al: max. 95 | 28 | M 8 | 36 |
| **0390 14** | Cu/Al: max. 150 | 34 | M 10 | Cu/Al: max. 150 | 34 | M 10 | 42 |
| **0390 15** | Cu/Al: max. 300 | 46 | M 12 | Cu/Al: max. 300 | 46 | M 12 | 55 |
| **Cable lug - Cable** | | | | | | | |
| **0390 17** | Cu/Al: max. 150 | 34 | M 10 | Rigid or flexible Cu: 35 to 95 | – | – | 42 |
| **0390 18** | Cu/Al: max. 300 | 46 | M 12 | Rigid or flexible Cu: 70 to 150 | – | – | 55 |

Cable - Cable

Cable lug - Cable lug

Cable lug - Cable

Cable - Cable lug



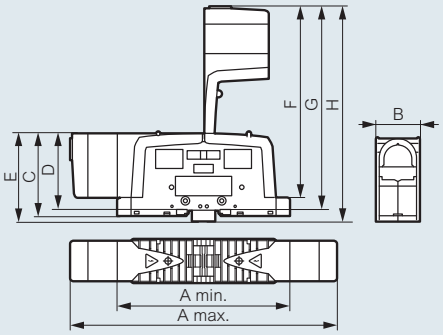
### Currents table

| Cat. Nos. | Current (A) | | | | Short-circuit current (kA) | | Tightening torque (Nm) | | Width (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | Shunted input | I/O currents | | | Shunted input | I/O | Site | Factory | |
| | IEC | IEC | CSA | UL | | | | | |
| **Cable - Cable** | | | | | | | | | |
| **0390 10** | 340 | 250 | 200 | 170 | 14·4 | 8·4 | 15 | 15 | 42 |
| **0390 11** | 570 | 400 | 300 | 285 | 36 | 18 | 35 | 35 | 55 |
| **Terminal for cable lug - Terminal for cable lug** | | | | | | | | | |
| **0390 13** | 310 | 310 | 250 | 230 | 11·4 | 11·4 | 15 | 15 | 36 |
| **0390 14** | 415 | 415 | 340 | 285 | 18 | 18 | 15 | 15 | 42 |
| **0390 15** | 670 | 670 | 520 | 420 | 36 | 36 | 35 | 35 | 55 |
| **Terminal for cable lug - Cable** | | | | | | | | | |
| **0390 17** | 415 | 315 | 210 | 230 | 18 | 11·4 | 15 | 15 | 42 |
| **0390 18** | 670 | 420 | 325 | 285 | 36 | 18 | 35 | 35 | 55 |
| **Shunts** | | | | | | | | | |
| **0394 46** | 450 max. | – | – | – | – | – | 6 | | – |
| **0394 47** | 700 max. | – | – | – | – | – | 10 | | – |

### Cable section equivalence table

| mm² | 35 | 70 | 95 | 120 | 150 | 185 | 300 |
|---|---|---|---|---|---|---|---|
| **AWG** | 2 | 00 | 0000 | 250 | 300 | 350 | 600 |

### Dimensions (mm)



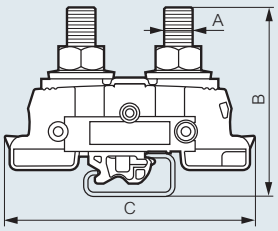

| Cat. Nos. | A max. | A min. | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|
| **0390 13** | 227 | 155 | 36 | 82 | 73 | 88 | 176 | 185 | 191 |
| **0390 10/14/17** | 296 | 200 | 42 | 83·5 | 74·5 | 89·5 | 212 | 221 | 227 |
| **0390 11/15/18** | 337 | 216 | 55 | 107·3 | 98·5 | 113·5 | 257 | 266 | 272 |

## ■ Characteristics of heavy duty plate terminal blocks for copper bars or cable lugs

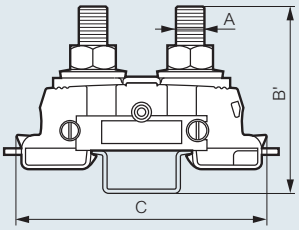
| Cat. Nos. | Voltage (V) IEC | Intensity (A) IEC |
|---|---|---|
| **0390 31/71** | 1000 | 125 |
| **0390 32/72** | 1000 | 192 |
| **0390 33/73** | 1000 | 269 |
| **0390 34/74** | 1000 | 415 |

IEC EN 60947-7-1
Fire resistance :
960 °C, IEC EN 60695-2-11
V2 according to UL 94
Insulating material :
polyamide –30 °C to +100 °C

### Dimensions (mm)




Cat. Nos. 0390 31/32/33/34

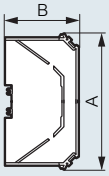



Cat. Nos. 0390 71/72/73/74

| Cat. Nos. | A | B | B' | C |
|---|---|---|---|---|
| **0390 31** | M 8 | 56 | | 84 |
| **0390 32** | M 10 | 61 | | 84 |
| **0390 33**(1) | M 10 | 61 | | 84 |
| **0390 34**(2) | M 12 | 64 | | 86 |
| **0390 71** | M 8 | | 55·3 | 84 |
| **0390 72** | M 10 | | 60·4 | 84 |
| **0390 73** | M 10 | | 60·4 | 84 |
| **0390 74** | M 12 | | 63·5 | 86 |

## ■ Separation barriers

### Dimensions (mm)



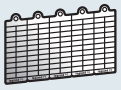

Cat. Nos. 0394 77/78

| Cat. Nos. | A | B | Thickness |
|---|---|---|---|
| **0394 77** | 106 | 82 | 8 |
| **0394 78** | 188 | 102 | 12 |

(1) Previously M 12 + block length 78·5 mm
(2) Previously M 16 + block length 94 mm

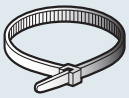
# Cable marking systems and cable accessories


Marking systems



**P. 154** Marking label sheets

Cable ties



**P. 157** Colring cable ties

Starfix®

**P. 160** Starfix ferrules

**P. 154**
CAB 3
marking system

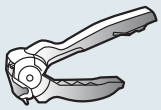
**P. 156**
CAB 3
marking system
accessories

**P. 156**
Technical
information

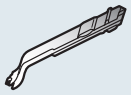
**P. 157**
Colson
cable ties

**P. 158**
Colring
cable ties
technical
information

**P. 159**
Colson
cable ties
technical
information



**P. 160**
Crimping tools
for Starfix
ferrules



**P. 161**
Applicators
for Starfix
crimping tools

**P. 161**
Starfix
technical information

# Completing the perfect installation

**Create reliable connections which are clearly marked and secured with Legrand's range of cabling accessories. From Starfix tools and ferrules to CAB 3 marking systems and Colson and Colring cable ties, we've got everything you need to complete your installation to the highest standard.**

## Starfix crimping tools – available in 3 sizes for cables from 0.25 to 6mm²

Fit the applicator

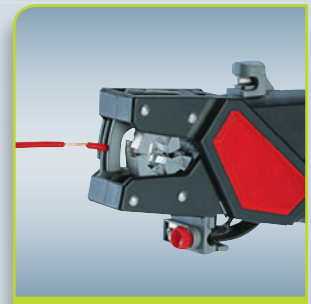
Adjust cable size

Insert cable and crimp

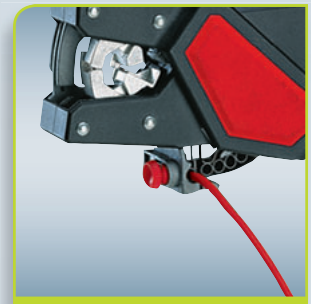
## Starfix multi-purpose crimping tool – for cables from 0.5mm to 2.5mm²

Create reliable connections in seconds with Starfix crimping tools and ferrules... everything you need for 0.25 to 50mm² cables.

Adjust cross section



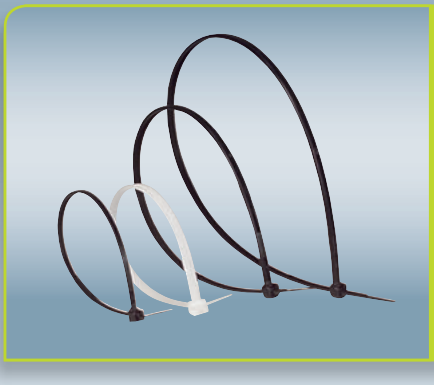
Cut, strip and twist



Crimp

Crimping tools, applicators and mixed ferrules are available in convenient kits to get you started.

## Colring® cable ties



Colring polyamide 6/6 cable ties feature internal teeth and are available in black UV protected and colourless non UV protected options.

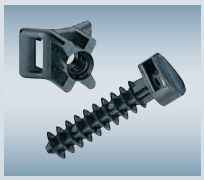
Tool available for tightening and trimming of Colring cable ties

Self-adhesive and screw mounting bases available

## Colson® cable ties

Colson polyamide 12 (halogen-free, low fire hazard) cable ties feature external teeth and offer UV, high level acid and chemical protection.

Tool available for tightening and trimming of Colson cable ties



Screw mounting and wall plug bases available

## Making your mark

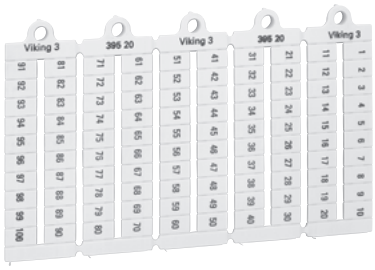
CAB 3 offers a high quality solution to multiple cable and terminal marking requirements. Universal fittings enable clear, rapid marking and simple modification.

- Sizes range from 0.15 to 6mm²
- Numbers, letters and conventional symbols available
- International marker colours
- For Viking 3 terminal blocks, heavy duty terminal blocks - or fit directly onto cables
- Mixed marker sets available

Markers can be fitted directly onto cables or via a marker holder

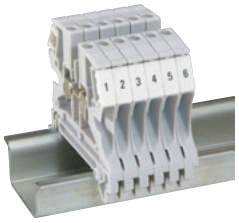
Terminal block installation with CAB 3 markers

# marking label sheets
## for Viking 3 terminal blocks



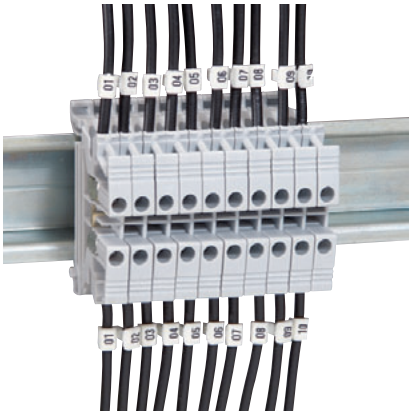
0395 20

0395 98



0395 05 on Viking 3 terminal blocks

# CAB 3® marking system
## for cables and Viking 3 terminal blocks



Same markers for cable and terminal blocks

Strips of 20 markers
For cables or Viking 3 terminal blocks

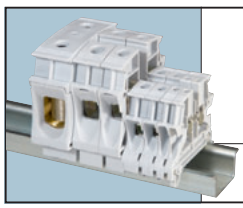
*Technical information (p. 156)*

| Pack | Cat. Nos. | **Blank markers** |
|---|---|---|
| | | Displayed by sheet of 100 pre-cut markers<br>Manual marking with black felt tip pen Cat. No. 0395 98 |
| 1000 | 0395 00 | For blocks 5 mm width |
| 1000 | 0395 01 | For blocks 6 mm width |
| 1000 | 0395 02 | For blocks 8 mm width |

| | | **Pre-printed markers – numbers** |
|---|---|---|
| | | Horizontal format |
| | | **Width of 5 mm** |
| 1000 | 0395 05 | From 1 to 10 (10 times) |
| 1000 | 0395 06 | From 11 to 20 (10 times) |
| 1000 | 0395 09 | From 1 to 50 (2 times) |
| 1000 | 0395 10 | From 1 to 100 |
| | | **Width of 6 mm** |
| 1000 | 0395 15 | From 1 to 10 (10 times) |
| 1000 | 0395 16 | From 11 to 20 (10 times) |
| 1000 | 0395 19 | From 1 to 50 (2 times) |
| 1000 | 0395 20 | From 1 to 100 |
| 1000 | 0395 21 | From 101 to 200 |

| | | **Black felt tip pen** |
|---|---|---|
| 10 | 0395 98 | Permanent marker |

| Pack | Cat. Nos. | **Markers for cables 1·5 to 2·5 mm² cross section and terminal blocks** |
|---|---|---|
| | | **Numbers : (black on white background)** |
| 240 | 0381 60 | 01 to 20 |
| 240 | 0381 61 | 21 to 40 |
| 240 | 0381 62 | 41 to 60 |
| 240 | 0381 63 | 61 to 80 |



**For Viking 3 terminal blocks**

**see p. 132-149**

# CAB 3® marking system
## for cables and Viking 3 terminal blocks

Perfect alignment of markers

0382 12

Terminal blocks with CAB 3 markers and label holders

*Technical information (p. 156)*

## Markers for cables 0·15 to 0·5 mm² and 0·5 to 1·5 mm² cross section and terminal blocks

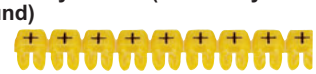
On Viking 3 terminal blocks
- 4 markers 0·15 to 0·5 mm² max.
- 3 markers 0·15 to 1·5 mm² max.

| Pack(1) | | Cat. Nos. 0·15 to 0·5² | Cat. Nos. 0·5 to 1·5² | | |
|---|---|---|---|---|---|
| | | | | **Digits : (international colour code)** | |
| 1 000 | 1 200 | 0381 00 | 0382 10 | 0 | Black |
| 1 000 | 1 200 | 0381 01 | 0382 11 | 1 | Brown |
| 1 000 | 1 200 | 0381 02 | 0382 12 | 2 | Red |
| 1 000 | 1 200 | 0381 03 | 0382 13 | 3 | Orange |
| 1 000 | 1 200 | 0381 04 | 0382 14 | 4 | Yellow |
| 1 000 | 1 200 | 0381 05 | 0382 15 | 5 | Green |
| 1 000 | 1 200 | 0381 06 | 0382 16 | 6 | Blue |
| 1 000 | 1 200 | 0381 07 | 0382 17 | 7 | Purple |
| 1 000 | 1 200 | 0381 08 | 0382 18 | 8 | Grey |
| 1 000 | 1 200 | 0381 09 | 0382 19 | 9 | White |
| | | | | **Letters : (black on yellow background)** | |
| 300 | | 0381 10 | 0383 00 | A | |
| 300 | | 0381 11 | 0383 01 | B | |
| 300 | | 0381 12 | 0383 02 | C | |
| 300 | | 0381 13 | 0383 03 | D | |
| 300 | | 0381 14 | 0383 04 | E | |
| 300 | | 0381 15 | 0383 05 | F | |
| 300 | | 0381 16 | 0383 06 | G | |
| 300 | | 0381 17 | 0383 07 | H | |
| 300 | | 0381 18 | 0383 08 | I | |
| 300 | | 0381 19 | 0383 09 | J | |
| 300 | | 0381 20 | 0383 10 | K | |
| 300 | | 0381 21 | 0383 11 | L | |
| 300 | | 0381 22 | 0383 12 | M | |
| 300 | | 0381 23 | 0383 13 | N | |
| 300 | | 0381 24 | 0383 14 | O | |
| 300 | | 0381 25 | 0383 15 | P | |
| 300 | | 0381 26 | 0383 16 | Q | |
| 300 | | 0381 27 | 0383 17 | R | |
| 300 | | 0381 28 | 0383 18 | S | |
| 300 | | 0381 29 | 0383 19 | T | |
| 300 | | 0381 30 | 0383 20 | U | |
| 300 | | 0381 31 | 0383 21 | V | |
| 300 | | 0381 32 | 0383 22 | W | |
| 300 | | 0381 33 | 0383 23 | X | |
| 300 | | 0381 34 | 0383 24 | Y | |
| 300 | | 0381 35 | 0383 25 | Z | |
| | | | | **Conventional symbols : (black on yellow background)** | |
| 300 | | 0381 40 | 0382 70 | / | |
| 300 | | 0381 41 | 0382 71 | • | |
| 300 | | 0381 42 | 0382 72 | + | |
| 300 | | 0381 43 | 0382 73 | – | |
| 300 | | 0381 44 | 0382 74 | ∿ | |
| 300 | | | 0382 75 | ⎓ | |
| 300 | | | 0382 76 | ⏚ | |

0381 06

0383 17

0381 28



0382 72

0381 43

## Markers for cables 1·5 to 2·5 mm² and 4 to 6 mm² cross section

| Pack(1) | | Cat. Nos. 1·5 to 2·5² | Cat. Nos. 4 to 6² | | |
|---|---|---|---|---|---|
| | | | | **Digits : (international colour code)** | |
| 1 200 | 800 | 0382 20 | 0382 30 | 0 | Black |
| 1 200 | 800 | 0382 21 | 0382 31 | 1 | Brown |
| 1 200 | 800 | 0382 22 | 0382 32 | 2 | Red |
| 1 200 | 800 | 0382 23 | 0382 33 | 3 | Orange |
| 1 200 | 800 | 0382 24 | 0382 34 | 4 | Yellow |
| 1 200 | 800 | 0382 25 | 0382 35 | 5 | Green |
| 1 200 | 800 | 0382 26 | 0382 36 | 6 | Blue |
| 1 200 | 800 | 0382 27 | 0382 37 | 7 | Purple |
| 1 200 | 800 | 0382 28 | 0382 38 | 8 | Grey |
| 1 200 | 800 | 0382 29 | 0382 39 | 9 | White |
| | | | | **Letters : (black on yellow background)** | |
| 300 | | 0383 30 | 0383 60 | A | |
| 300 | | 0383 31 | 0383 61 | B | |
| 300 | | 0383 32 | 0383 62 | C | |
| 300 | | 0383 33 | 0383 63 | D | |
| 300 | | 0383 34 | 0383 64 | E | |
| 300 | | 0383 35 | 0383 65 | F | |
| 300 | | 0383 36 | 0383 66 | G | |
| 300 | | 0383 37 | 0383 67 | H | |
| 300 | | 0383 38 | 0383 68 | I | |
| 300 | | 0383 39 | 0383 69 | J | |
| 300 | | 0383 40 | 0383 70 | K | |
| 300 | | 0383 41 | 0383 71 | L | |
| 300 | | 0383 42 | 0383 72 | M | |
| 300 | | 0383 43 | 0383 73 | N | |
| 300 | | 0383 44 | 0383 74 | O | |
| 300 | | 0383 45 | 0383 75 | P | |
| 300 | | 0383 46 | 0383 76 | Q | |
| 300 | | 0383 47 | 0383 77 | R | |
| 300 | | 0383 48 | 0383 78 | S | |
| 300 | | 0383 49 | 0383 79 | T | |
| 300 | | 0383 50 | 0383 80 | U | |
| 300 | | 0383 51 | 0383 81 | V | |
| 300 | | 0383 52 | 0383 82 | W | |
| 300 | | 0383 53 | 0383 83 | X | |
| 300 | | 0383 54 | 0383 84 | Y | |
| 300 | | 0383 55 | 0383 85 | Z | |
| | | | | **Conventional symbols : (black on yellow background)** | |
| 300 | | 0382 80 | 0382 90 | / | |
| 300 | | 0382 81 | 0382 91 | • | |
| 300 | | 0382 82 | 0382 92 | + | |
| 300 | | 0382 83 | 0382 93 | – | |
| 300 | | 0382 84 | 0382 94 | ∿ | |
| 300 | | 0382 85 | 0382 95 | ⎓ | |
| 300 | | 0382 86 | 0382 96 | ⏚ | |

0382 32

0382 26

0383 46

0383 79

0382 82

0382 94

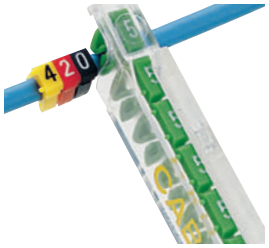
(1) Up to 0·5 mm²: strips of 25 markers
From 0·5 mm² to 2·5 mm²: strips of 30 markers
Upper 2·5 mm²: strips of 20 markers

# CAB 3® marking system
accessories

0384 90

0384 92

0383 92 +
CAB 3 markers


0383 97

0382 00

*Technical information (opposite)*

| Pack | Cat. Nos. | CAB 3 accessories |
|---|---|---|
| | | **Marker holders – for cable**<br>For cables with cross section from 10 mm² to 70 mm²<br>Capacity :<br>8 digit, letter or symbol markers from 0·5 to 1·5 mm² or 1·5 to 2·5 mm² cross section<br>Black |
| 100 | 0384 90 | 10 to 16 mm² cable cross section |
| 50 | 0384 91 | 25 to 35 mm² cable cross section |
| 50 | 0384 92 | 50 to 70 mm² cable cross section |
| | | **Marker holders – for Viking 3 terminal blocks** |
| 100 | 0383 92 | Can be clipped onto Viking 3 terminal blocks<br>Capacity :<br>7 markers from 0·15 to 0·5 mm²<br>6 markers from 0·5 to 1·5 mm² |
| | | **Transparent applicators**<br>For rapid selection and application of markers onto cable |

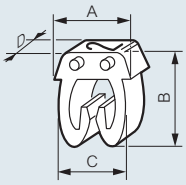
| Pack | Cat. Nos. | For markers cross section (mm²) | Applicator colour for identification of cross section |
|---|---|---|---|
| 10 | 0383 94 | 0·15 to 0·5 | Green |
| 10 | 0383 95 | 0·5 to 1·5 | Red |
| 10 | 0383 96 | 1·5 to 2·5 | Blue |
| 10 | 0383 97 | 4 to 6 | Yellow |

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Set of mixed markers** |
| 1 | 0382 01 | 0·15 to 0·5 mm² : 2 500 markers<br>+ 10 applicators (250 digits from 0 to 9) |
| 1 | 0382 02 | 0·5 to 1·5 mm² : 3 000 markers<br>+ 10 applicators (300 digits from 0 to 9) |
| 1 | 0382 03 | 1·5 to 2·5 mm² : 3 000 markers<br>+ 10 applicators (300 digits from 0 to 9) |
| 1 | 0382 04 | 4 to 6 mm² : 2 000 markers<br>+ 10 applicators (200 digits from 0 to 9) |
| | | **On-site toolbox** |
| 1 | 0382 00 | With removable tray for CAB 3 markers and applicators, Starfix ferrules etc.<br>Height 85 mm, depth 280 mm, width 450 mm<br>Metal, padlockable<br>Supplied empty |

# CAB 3® marking system
for cables and Viking 3 terminal blocks

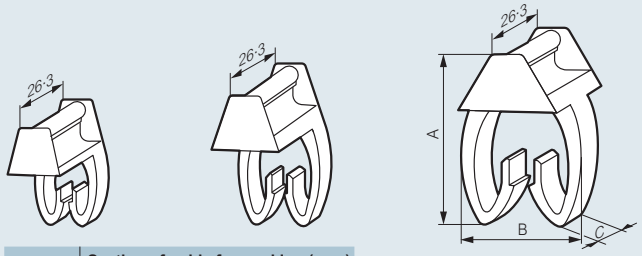
## ■ Dimensions

### Markers
Polyamide 6/6



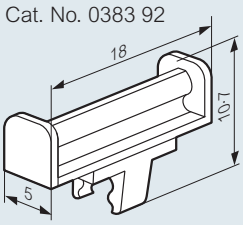

| Dimensions | Cable cross section (mm²) | | | |
|---|---|---|---|---|
| | 0·15 to 0·5 | 0·5 to 1·5 | 1·5 to 2·5 | 4 to 6 |
| A (mm) | 5 | 5 | 5·6 | 8 |
| B (mm) | 5·05 | 6·4 | 7·6 | 9·6 |
| C (mm) | 3·7 | 4·3 | 4·9 | 7·1 |
| D (mm) | 2·3 | 3 | 3 | 3 |
| Ø min./max. (mm) | 0·8/2·2 | 2·2/3 | 2·8/3·8 | 4·3/5·3 |

### Marker holders – for cable
Cat. No. 0384 90 Cat. No. 0384 91 Cat. No. 0384 92

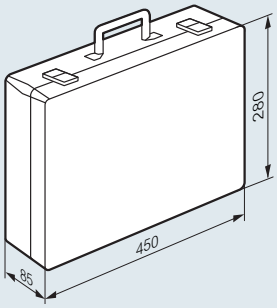



| Dim. | Section of cable for marking (mm²) 10 to 16 | 25 to 35 | 50 to 70 |
|---|---|---|---|
| A (mm) | 18 | 24·3 | 27·2 |
| B (mm) | 8·9 | 12·2 | 17·2 |
| C (mm) | 7 | 7 | 10 |

### Marker holders – for Viking 3 terminal blocks
Cat. No. 0383 92




### On-site toolbox
Cat. No. 0382 00




Bottom tray consists of :
- 8 medium slots (each slot takes 1 box of CAB 3)
- 1 large slot

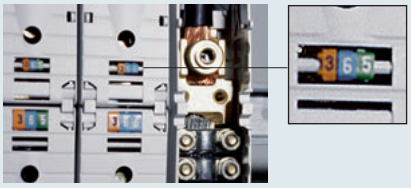
Top tray consists of :
- 12 small slots (<=> approx. 6 boxes of CAB 3)
- 1 medium slot for applicators

Capacity : approx. 15 000 CAB 3 markers

## ■ Examples

CAB 3 fitted on to Viking 3 terminal blocks using marker holder (Cat. No. 0383 92)

Fitted directly on to heavy duty terminal blocks



Fitted on to cable with marker holder (Cat. No. 0384 92)

# Colring® cable ties

0320 15/37/22/24

0320 42 supplied in blister pack

0320 65

0320 70

0320 72

0320 88

Technical information (p. 158)

## Colring cable ties with internal teeth

| Pack | Cat. Nos. | Width (mm) | Flat length (mm) | Max. Ø grip capacity (mm) | Min. Ø grip capacity (mm) | Weight (g) |
|---|---|---|---|---|---|---|
| | | **Polyamide 6/6 colourless** | | | | |
| | | Blister packed | | | | |
| 1000 | 0320 30 | 2·4 | 95 | 18 | 1·6 | 0·26 |
| 1000 | 0320 31 | 2·4 | 140 | 33 | 1·6 | 0·37 |
| 1000 | 0320 32 | 2·4 | 180 | 46 | 1·6 | 0·47 |
| 1000 | 0320 37 | 3·5 | 140 | 33 | 1·6 | 0·57 |
| 1000 | 0320 38 | 3·5 | 180 | 46 | 1·6 | 0·73 |
| 100 | 0320 39 | 3·5 | 280 | 77 | 1·6 | 1·13 |
| 100 | 0320 40 | 3·5 | 360 | 102 | 1·6 | 1·46 |
| 1000 | 0320 42 | 4·6 | 180 | 46 | 1·6 | 1·20 |
| 100 | 0320 43 | 4·6 | 280 | 77 | 1·6 | 1·88 |
| | | **Polyamide 6/6 black** | | | | |
| | | High temperature<br>UV protected<br>Blister packed | | | | |
| 100 | 0320 12 | 2·4 | 95 | 18 | 1·6 | 0·26 |
| 100 | 0320 15 | 3·5 | 140 | 33 | 1·6 | 0·57 |
| 100 | 0320 22 | 4·6 | 180 | 46 | 1·6 | 1·20 |
| 100 | 0320 24 | 4·6 | 360 | 102 | 1·6 | 2·38 |

## Accessories

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Self-adhesive base** |
| 100 | 0320 65 | For ties up to 4·6 mm max. width<br>Colourless |
| | | **Screw mounting bases** |
| 1000 | 0320 70 | For ties 4·6 mm max. width<br>Central fixing (screw Ø 4 mm) |
| 100 | 0320 72 | For ties all widths<br>Central fixing (screw Ø 5 mm) |
| | | **Tool for Colring cable ties** |
| | | Max. width 4·6 mm<br>Direct adjustment of clamping tension by using the milled screw at the base of the handle<br>After clamping, a blade automatically cuts the surplus length close to the head without leaving a burr |
| 1 | 0320 88 | P 46 tool for cable ties max. width 4·6 mm |

# Colson® cable ties

0319 16

0319 50

0319 55

0319 96

Technical information (p. 159)

## Colson UV protected cable ties

| Pack | Cat. Nos. | Width (mm) | Flat length (mm) | Max. Ø grip capacity (mm) | Min. Ø grip capacity (mm) | Weight (g) |
|---|---|---|---|---|---|---|
| | | UV protected<br>External teeth<br>Black polyamide 12 | | | | |
| 100 | 0319 13 | 9 | 185 | 42 | 10 | 3·2 |
| 100 | 0319 16 | 9 | 265 | 62 | 26 | 4·7 |
| 100 | 0319 19 | 9 | 355 | 92 | 26 | 6·9 |
| 100 | 0319 20 | 9 | 500 | 140 | 74 | 12·7 |
| 100 | 0319 21 | 9 | 750 | 220 | 74 | 16·9 |
| 100 | 0319 22 | 6 | 119 | 25 | 4 | 1·6 |
| 100 | 0319 25 | 6 | 180 | 45 | 10 | 2·0 |

## Accessories

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Screw-on base** |
| 100 | 0319 50 | Black<br>For ties max. width 9 mm.<br>Height : 12 mm for cartridge-fired stud and rag-bolt Ø 6·35, metal stud Ø 7 mm and countersunk screws Ø 5 mm |
| | | **Wall plug base** |
| 100 | 0319 55 | Black<br>Ø 8 mm drilling |
| | | **Tool for Colson cable ties** |
| 1 | 0319 96 | Black and red finish<br>Allows tightening and trimming of Colson ties |

# Colring® cable ties

## ■ Performance

Conform to EN 62275 type 1 (NFC 68-146)
"cable ties for electrical installations"
Recognised UL 1565 approval

## ■ Technical data

Good resistance to bases, oils, greases and petroleum products
Limited resistance to acids, sensitive to mineral acids and no resistance to phenol

| Cable ties Polyamide 6/6 | | Max. rachet force (daN) | Tensile strength According to EN 50146 | |
|---|---|---|---|---|
| Colourless Non UV protected | Black High temperature UV protected | | Test dia. (mm) | Min. guaranteed strength (daN) |
| 0320 30 | 0320 12 | 0·50 | 18 | 8·0 |
| 0320 31 | | 0·50 | 20 | 8·0 |
| 0320 32 | | 0·50 | 20 | 8·0 |
| 0320 37 | 0320 15 | 0·50 | 20 | 13·0 |
| 0320 38 | | 0·50 | 20 | 13·0 |
| 0320 39 | | 0·50 | 20 | 13·0 |
| 0320 40 | | 0·50 | 20 | 13·0 |
| 0320 42 | 0320 22 | 0·50 | 20 | 22·0 |
| 0320 43 | | 0·50 | 20 | 22·0 |
| | 0320 24 | 0·50 | 20 | 22·0 |

| Type | Colring colourless | Colring black |
|---|---|---|
| UV protection | no | yes |
| Polyamide material | 6/6 | 6/6 |
| Teeth | internal | internal |
| Halogen free(1) | yes | yes |
| Humidity absorbtion(2) | 2·5 % | 2·5 % |
| Operating temperature | | |
| - 20,000 hrs | 85 °C | 105 °C |
| - 1,000 hrs | 100 °C | 120 °C |
| Resistance to low temperatures | | |
| - fitted | –15 °C | –15 °C |
| - assembly | –10 °C | 0 °C |
| Flame retardancy | UL 94 V2 | UL 94 V2 |
| Oxygen index (LOI) (EN ISO 4589-1/ASTM D 2863-00) | 28·5 % | 26 % |
| Self-extinguishing(3) | 850 °C | 850 °C |

(1) Conform to Class I ASTM D 4066 (Class 2 for Colring black)
(2) Conform to ISO 62 (EH 0-23 °C)
(3) Conform to IEC 60695-2-12

### External agents resistance

- Good resistance to bases, oils, greases, petroleum products, chlorinated solvents
- Humidity retention : 1.5 % ≤ humidity retention ≤ 3 %

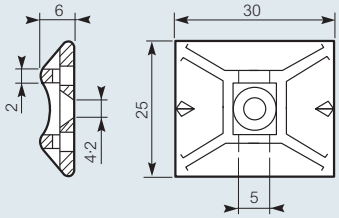
### Fire resistance

- Flame resistance UL 94 : V2
- Flame-retardant
- Self-extinguishing 850 °C according to IEC 60695-2-12
- Oxygen index : EN ISO 4589-1 / ASTM D 2863-00 : 28.5% (26% for Colring black)
- Halogen-free polyamide, class 1 according to ASTM D 4066 (Class 2 for Colring black)

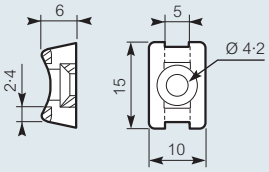
## ■ Dimensions

### Accessories for Colring

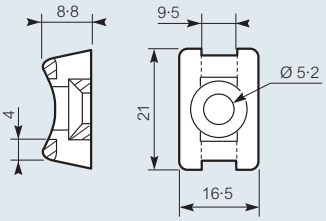
Cat. No. 0320 65




Cat. No. 0320 70




Cat. No. 0320 72



# Colson® cable ties

## ■ Performance

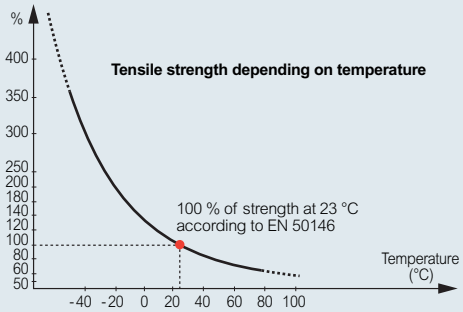
Conform to EN 62275 type 1 (NFC 68-146)
"cable ties for electrical installations"
Test conditions :
- Temperature : 23 °C
- Relative humidity of air : 50 %
- Traction speed : 25·4 mm/min

## ■ Technical data

### Constant high quality

Type tests
- Raw material test
- Product test on the production line and in the laboratory
- Packaging test

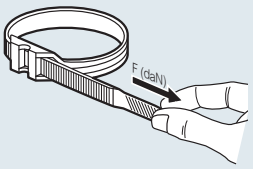
### Tensile strength (according to EN 50146)




### Quality of tensile strength

| Cat. Nos. | Diagram (A) - Max. ratchet force (daN) | Diagram (B) - Tensile strength | |
|---|---|---|---|
| | | Test dia. (mm) According to EN 50146 | Min. strength (daN) |
| 0319 13 | 4 | 20 | 36 |
| 0319 16 | 5 | 26 | 53 |
| 0319 19 | 5 | 26 | 53 |
| 0319 20 | 5·5 | 74 | 53 |
| 0319 21 | 5·5 | 74 | 53 |
| 0319 22 | 4 | 20 | 22 |
| 0319 25 | 4 | 20 | 22 |

(A)




(B)

### Fire resistance

- Flame retardant
- Conform to UL 94 requirements, HB classification
- Glow-wire flammability resistance according to IEC 60695-2-11 : 650 °C
- Oxygen index (LOI) according to EN ISO 4589-1/ASTM D 2863-00 : 20 %
- Low fire hazard polyamide

### UV protected according to norm IEC 62275 type 1

UV protected black cable ties for outdoor use
These black cable ties have successfully undergone UV resistance and climatic ageing tests representing actual conditions of use
These cycles combine a 1000 hours radiance under arc or xenon lamp according to ISO 4892-2 method 1

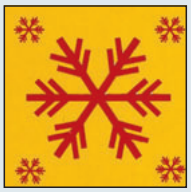
**Resistance to external agents**

- Good resistance to oils, greases, petroleum products, saline mist and diluted acids

**Resistance to rain**

- Humidity absorption: ≤0·7%

**Resistance to low temperatures**



- Assembly –30 °C
- Fitted –40 °C

**Resistance to sun**

Maximum temperatures :
- 85 °C continuous
- 100 °C @ 1000 hrs
- UV resistant

### Colson approvals

Oxygen index : EN ISO 4589-1 and ASTM D 2863-00, 20 %
Corrosiveness of fumes : NFC 20-453, < 5 %
Flame retardancy : UL 94 HB

| Type | Colson black |
|---|---|
| UV protection | yes |
| Polyamide material | 12 |
| Teeth | external |
| Halogen free(1) | yes |
| Humidity absorbtion(2) | <0·7 % |
| Operating temperature | |
| - 20,000 hrs | 85 °C |
| - 1,000 hrs | 100 °C |
| Resistance to low temperatures | |
| - fitted | –40 °C |
| - assembly | –30 °C |
| Flame retardancy | UL 94 HB |
| Oxygen index (LOI) (EN ISO 4589-1/ASTM D 2863-00) | 20 % |
| Self-extinguishing(3) | 650 °C |

(1) Conform to Class I ASTM D 4066
(2) Conform to ISO 62 (EH 0-23°C
(3) Conform to IEC 60695-2-11

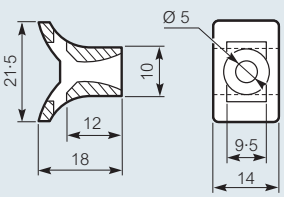
## ■ Colson traceability

Each Colson cable tie can be identified, underlining Legrand's commitment to the consumer, so that you can always be sure you are using a genuine Colson

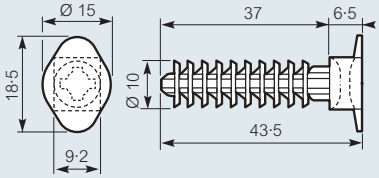
## ■ Dimensions

### Accessories for Colson

Cat. No. 0319 50




Cat. No. 0319 55



# Starfix® ferrules and crimping tools

0376 50

0376 60

0376 61

0376 62

0376 63

0376 64

0376 66

0376 67

0376 68

0376 09 + refill 0376 43

Adjustable cross section

0376 06

0376 39

0376 92

0376 87

0376 43

*Technical information (p.161)*

## Ferrules with insulating flange

Provide an equipotential link for all the strands of a flexible conductor
Active part in tinned electrolytic copper
Conform to NF C 63-023

### Single ferrules (in strips)

Supplied in strips to prevent loss of ferrules

| Pack | Cat. Nos. | For cables cross section (mm²) | Colour | Strips | Ferrules |
|---|---|---|---|---|---|
| 500 | 0376 50 | 0·25 | turquoise | 10 | 50 |
| 500 | 0376 60 | 0·34 | green | 12 | 40 |
| 480 | 0376 61 | 0·5 | white | 12 | 40 |
| 480 | 0376 62 | 0·75 | blue | 12 | 40 |
| 1 000 | 0376 63 | 1·0 | red | 25 | 40 |
| 1 000 | 0376 64 | 1·5 | black | 25 | 40 |
| 1 000 | 0376 66 | 2·5 | grey | 25 | 40 |
| 250 | 0376 67 | 4·0 | orange | 10 | 25 |
| 250 | 0376 68 | 6·0 | green | 10 | 25 |

### Individual ferrules - single

| Pack | Cat. Nos. | | |
|---|---|---|---|
| 100 | 0376 69 | 10 | brown |
| 100 | 0376 70 | 16 | white |
| 50 | 0376 71 | 25 | black |

### Individual ferrules - double

| Pack | Cat. Nos. | | |
|---|---|---|---|
| 100 | 0376 87 | 2 x 0·75 | blue |
| 100 | 0376 88 | 2 x 1·0 | red |
| 100 | 0376 89 | 2 x 1·5 | black |
| 100 | 0376 90 | 2 x 2·5 | grey |

### Large capacity refills

Large capacity for less frequent applicator reloading
Translucent packaging
For direct mounting on crimping tool Cat. No. 0376 09

| Pack | Cat. Nos. | Cross section (mm²) | Colour | Number of ferrules per strip |
|---|---|---|---|---|
| 3 000 | 0376 41 | 0·5 | White | 300 |
| 3 000 | 0376 42 | 0·75 | Blue | 300 |
| 3 000 | 0376 43 | 1·0 | Red | 300 |
| 3 000 | 0376 44 | 1·5 | Black | 300 |
| 2 500 | 0376 45 | 2·5 | Grey | 250 |

**Colours according to NF C 63-023 standard**

| Cross sections in mm² : | 0·5 | 0·75 | 1 | 1·5 | 2·5 | 4 | 6 |
|---|---|---|---|---|---|---|---|

## Crimping tools for ferrules in strips

Cut and carry out 4-point crimping of ferrules from 0·25 to 6 mm² in one operation
Recommended for spring connections
Dedicated applicator for each crimping tool for dispensing strips
For right and left-handed usage
4 point crimping for Cat. Nos. 0367 08/09
3 point crimping for Cat. No. 0367 10

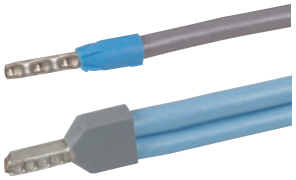
| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0376 08 | **For ferrules with 0·25 and 0·34 mm² cross sections**<br>Supplied with empty applicator fitted |
| 1 | 0376 09 | **For ferrules with 0·5 to 2·5 mm² cross sections**<br>Fitted with an adjustment wheel<br>Supplied with empty applicator fitted |
| 1 | 0376 10 | **For ferrules with 4 and 6 mm² cross sections**<br>Fitted with an adjustment wheel<br>Supplied complete with empty applicator |
| 1 | 0376 39 | **Transport case for on-site use**<br>Assorted kit, comprising :<br>- 1 Starfix crimping tool, Cat. No. 0376 09 with empty applicator fitted<br>- 120 x 0·5 mm² ferrules<br>- 120 x 0·75 mm² ferrules<br>- 240 x 1·0 mm² ferrules<br>- 320 x 1·5 mm² ferrules<br>- 200 x 2·5 mm² ferrules |
| 1 | 0376 97 | **Multi-purpose crimping tool for 0·5 to 2·5 mm² cross sections**<br>Tool cuts, strips, twists, crimps<br>Supplied complete with 5 empty applicators |

## Crimping tool for single and double ferrules

| Pack | Cat. Nos. | |
|---|---|---|
| 1 | 0376 06 | **Starfix crimping tool for 0·25 to 6 mm² cross sections**<br>For 4-point crimping of ferrules from 0·25 to 6 mm²<br>Recommended for spring connections<br>Crimping tool with disengageable control system, crimping at end<br>For right and left-handed usage |
| 1 | 0376 92 | **Transport case for on-site use**<br>Assorted kit. Supplied with :<br>- 1 tool with crimping operation control system for individual ferrules 10 to 50 mm²<br>- 30 individual ferrules 10 mm²<br>- 20 individual ferrules 16 mm²<br>- 15 individual ferrules 25 mm²<br>- 10 individual ferrules 35 mm²<br>- 10 individual ferrules 50 mm² |

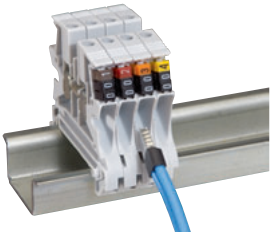
# applicators for Starfix® crimping tools

0376 47



Example of single/double ferrules fitted on cables

Example of different cables and ferrules



Example of use with Viking 3 terminals

*Technical information (opposite)*

| Pack | Cat. Nos. | Starfix applicators | |
|---|---|---|---|
| | | **For Starfix crimping tools**<br>For dispensing strips of ferrules in Starfix crimping tools Cat. Nos. 0376 08/09/10/97 | |
| | | For ferrules cross section (mm²) | Colour |
| 10 | 0376 46 | 0·25 and 0·34 | yellow |
| 10 | 0376 47 | 0·5 to 2·5 | red |
| 10 | 0376 48 | 4 and 6 | orange |

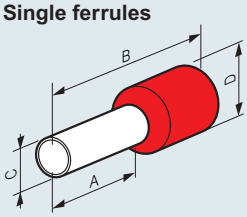
# Starfix® ferrules, crimping tools and applicators

## Correspondance table

| Cross section (mm²) / Ferrule | Single ferrule | Large capacity ferrule - refills | Starfix applicator |
|---|---|---|---|
| 0·5 | 0376 61 | 0376 41 | 0376 47 |
| 0·75 | 0376 62 | 0376 42 | 0376 47 |
| 1·0 | 0376 63 | 0376 43 | 0376 47 |
| 1·5 | 0376 64 | 0376 44 | 0376 47 |
| 2·5 | 0376 66 | 0376 45 | 0376 47 |

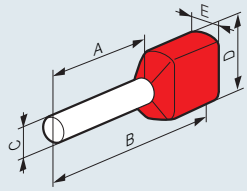
## Dimensions (mm)

### Single ferrules




| Cat. Nos. | | Cross section (mm²) | A | B | C | D |
|---|---|---|---|---|---|---|
| 0376 50 | | 0·25 | 8 | 14·5 | 1·1 | 3 |
| 0376 60 | | 0·34 | 8 | 14·5 | 1·1 | 3 |
| 0376 61 | 0376 41 | 0·5 | 8 | 14·5 | 1·5 | 3·4 |
| 0376 62 | 0376 42 | 0·75 | 8 | 14·5 | 1·5 | 3·4 |
| 0376 63 | 0376 43 | 1·0 | 8 | 14·5 | 1·7 | 3·6 |
| 0376 64 | 0376 44 | 1·5 | 8 | 14·5 | 2 | 4·1 |
| 0376 66 | 0376 45 | 2·5 | 8 | 14·5 | 2·6 | 4·8 |
| 0376 67 | | 4 | 12 | 21 | 3·2 | 5·7 |
| 0376 68 | | 6 | 12 | 23 | 3·9 | 7·2 |
| 0376 69 | | 10 | 12 | 21 | 4·9 | 8·1 |
| 0376 70 | | 16 | 18 | 29 | 6·3 | 9·8 |
| 0376 71 | | 25 | 18 | 31 | 7·9 | 12 |

### Double ferrules



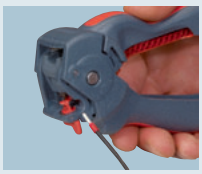

| Cat. Nos. | Cross section (mm²) | A | B | C | D | E |
|---|---|---|---|---|---|---|
| 0376 87 | 2 x 0·75 | 8 | 15 | 2·1 | 6 | 3·3 |
| 0376 88 | 2 x 1·0 | 8 | 15 | 2·35 | 6 | 4 |
| 0376 89 | 2 x 1·5 | 8 | 16 | 2·6 | 7·2 | 4·2 |
| 0376 90 | 2 x 2·5 | 10 | 18·5 | 3·3 | 8·4 | 4·8 |

## Starfix crimping tool usage example

1 Fit the applicator

2 Adjust

The handle gives an excellent grip



3 Insert the cable

4 Crimp

# Industrial plugs, sockets and combination units


**Hypra® Prisinter IP 44/55**
**P. 168** Selection chart IP 44/55 panel and surface mounting sockets LV 16/32/63 A

**Hypra® IP 44**
**P. 174** Selection chart IP 44 plugs and sockets ELV 16 A and LV 16/32/63 A

**Hypra® IP 66/67-55**
**P. 180** Selection chart IP 66/67-55 plugs and sockets LV 16/32/63/125 A

**P 17 Tempra® IP 44**
**P. 188** Selection chart IP 44 plugs and sockets LV 16/32 A

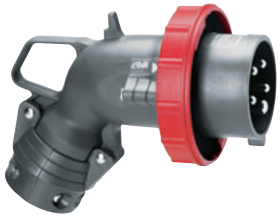
**P 17 Tempra® IP 66/67**
**P. 188** Selection chart IP 66/67 plugs and sockets LV 16/32/63 A

**Hypra® combination units IP 44, IP 66/67-55**
**P. 196** IP 44 combination units 16/32/63 A

**P 17 Tempra® combination units IP 44/IP 55/IP 66**
**P. 200** IP 44 combination units LV 16/32 A

**P 17 Tempra® self assembly combination units IP 44**
**P. 201** Self assembly IP 44 LV 16/32 A


## NEW IN 2012



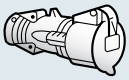
**Hypra® IP 66/67-55**
Angled plugs
(p. 181)

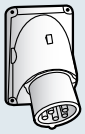
**P. 168**
IP 44/55
panel and surface mounting sockets
LV 16 A

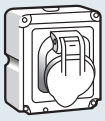
**P. 169**
IP 44/55
panel and surface mounting sockets
LV 32 A

**P. 169**
IP 44/55
panel and surface mounting sockets
LV 63 A

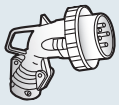
**P. 170**
Technical information

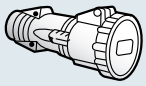

**P. 175** NEW
IP 44
plugs and sockets
ELV 16 A and
LV 16 A


**P. 176** NEW
IP 44
plugs and sockets
LV 32 A


**P. 176**
IP 44
plugs and sockets
LV 63 A

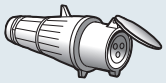
**P. 177**
Technical information

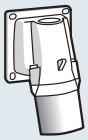

**P. 181** NEW
IP 66/67-55
plugs and sockets
LV 16 A


**P. 182**
IP 66/67-55
plugs and sockets
LV 32 A

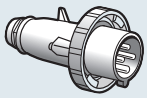
**P. 182**
IP 66/67-55
plugs and sockets
LV 63/125 A

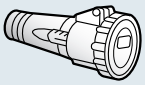
**P. 183**
Technical information


**P. 189**
IP 44
plugs and sockets
LV 16 A


**P. 189**
IP 44
plugs and sockets
LV 32 A

**P. 190**
Technical information


**P. 192**
IP 66/67
plugs and sockets
LV 16 A


**P. 192**
IP 66/67
plugs and sockets
LV 32 A

**P. 192**
IP 66/67
plugs and sockets
LV 63 A

**P. 192**
Technical information

**P. 196**
IP 44
combination units
with Prisinter
16/32 A

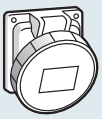
**P. 197**
IP 66/67-55
combination units
LV 16/32/63 A

**P. 198**
Technical information

**P. 200**
IP 55
combination units
LV 16/32 A

**P. 200**
IP 66
combination units
LV 16/32/63 A

**P. 202**
Technical information


**P. 201**
Sockets for
self assembly units
LV 16/32 A

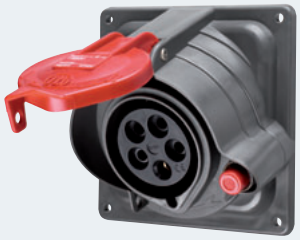
**P. 202**
Technical information

**P. 204**
Plugs and sockets
pin configurations

# Industrial plugs, sockets and combination units

A choice of plugs, sockets and combination units, each designed to meet the individual needs of specific areas of the market. From the everyday simplicity of P17 Tempra to the rugged sophistication and additional security presented by Hypra, which is further enhanced by its unique interlocked load break Prisinter sockets range.

## HYPRA – tough, durable reliability



### Hypra Prisinter sockets

- Unique interlocked load break
- Padlockable cover
- Compact combined socket and switch
- Surface and panel mounting options
- Available in plastic and metal versions

TECH INFO –
- IP44/55
- IK09 (plastic)
- IK10 (metal)

### Hypra plugs and sockets

- Full range of plugs, mobile sockets, appliance inlets and panel mounting sockets
- Available in plastic and metal

TECH INFO –
- IP44 and IP66/67–55 ranges
- IK09 (plastic)
- IK10 (metal)

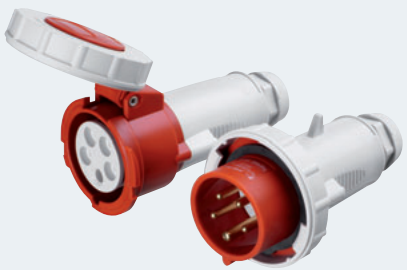
Power where you need it, when you need it... whatever the weather

## In good company

Over 1,000 Hypra combination units were installed by the MET office as part of its comprehensive electrical upgrading programme.

The units manage and isolate mains electricity and were chosen for their durability, ease of servicing and low maintenance... together with great flexibility and functionality.

## P17 TEMPRA – innovative simplicity



### P17 Tempra plugs and sockets

- Full range of plugs, mobile sockets, appliance inlets and panel mounting sockets
- Available in plastic only

TECH INFO –

- IP44 and IP66/67 ranges
- IK09

## COMBINATION UNITS – rugged versatility

### Hypra combination units

- Available with Hypra Prisinter or Hypra panel mounted sockets
- RCD, MCB or RCBO protection options

TECH INFO –

- IP44 and IP66/67–55 ranges
- IK09

### P17 Tempra combination units

- Available pre-assembled, or as self assembly version
- Available with or without protection

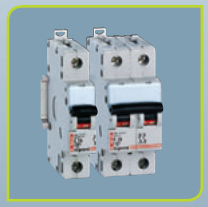
TECH INFO –

- IP44, IP55 and IP66 ranges
- IK08

# Legrand's extended product family

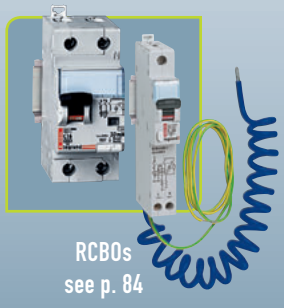
With quality being paramount throughout its product portfolio, Legrand is in an unbeatable position... offering high quality, integrated solutions designed to meet your needs whatever the budget or installation requirements.

Enclosures
see p. 8 to 45



MCBs
see p. 79 to 82

RCDs
see p. 83



RCBOs
see p. 84

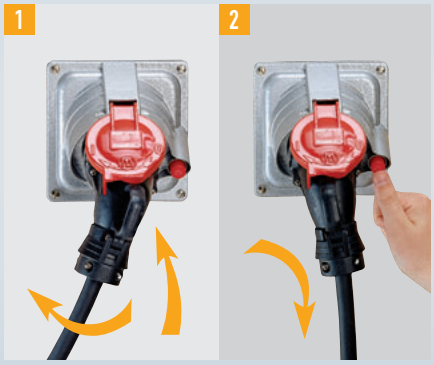
# Hypra® Prisinter...

## take a load off your mind

**With its unique interlocked load break, the Prisinter is a key asset to the Hypra range and is available in 16, 32 and 63 A ratings.**

**FEATURES:**

- **Combined socket and switch** - saving space, cost and installation time
- **Unique interlocked load break system** - prohibits on load connection or disconnection for maximum safety
- **Padlockable cover** - for additional security
- **Brass contact sleeves** - create high quality, reliable connections
- **Stainless steel screws** - maximum durability




1. Turn the plug to lock in position and connect power
2. Press the isolator button to disconnect power and remove the plug

## A simple, safe unique innovation

The added safety provided by load break prior to disconnection is equivalent to that provided by safety shutters on domestic sockets.

### TECHNICAL DATA

**APPROVALS:** BS EN 60309-1, BS EN 60309-2
Products are interchangeable with other manufacturers' products which meet the BS EN 60309-2 standard

**PROTECTION:** IP 44 - with Hypra IP 44 straight plug connected, IP54 - with Hypra IP67/66-55 straight plug connected, IP55 - with flap shut or Hypra IP66/67-55 angled plug connected
IK09 for plastic sockets, IK10 for metal sockets

**SELF EXTINGUISHING:** 960°C for insulated parts, 650°C for housing

**OPERATING TEMPERATURE:** -20°C / +100°C

## HYPRA PRISINTER – the choice is yours

Panel mounting (plastic and metal options)

Surface mounting (plastic and metal options)

# Safe and adaptable power supply for TATA steel Colorcoat® PV Facility

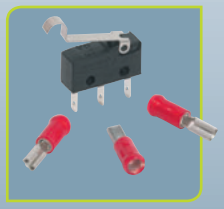
Prisinter sockets and Hypra plugs were specified retrospectively for TATA in a facility which requires machinery to be moved on a regular basis. Machines, originally wired directly to Zucchini tap-offs, are now wired into Hypra plugs, and simply connected and disconnected as required under the safety of Prisinter's interlocked load break switch.

Hypra Prisinter socket, Hypra angled plug and Zucchini tap-off

## Related products and accessories

IP44 plugs
see p. 172 to 179

IP66/67-55 plugs
see p. 180 to 185



Auxiliary c/o contact
see p. 168

An innovative answer to safe, secure power connections

# Hypra® Prisinter IP 44/55 - LV 16/32/63 A
## selection chart

**Conform to :**
**BS EN 60309-1,**
**BS EN 60309-2,**
**IP 44 when plug inserted**
**IP 54 with cover closed or used with IP 66/67-55 straight plugs**
**IP 55 with cover closed or used with IP 66/67-55 angled plugs**
**IK 09 (plastic)**
**IK 10 (metal)**
Self-extinguishing : 960 °C
650 °C for housing
Temp. rating :
–20 °C to +100 °C

*Technical information and dimensions (p. 170-171)*

| LV | | | Prisinter: Panel mounting sockets METAL | Prisinter: Panel mounting sockets PLASTIC | Prisinter: Surface mounting sockets METAL | Prisinter: Surface mounting sockets PLASTIC | Auxiliary c/o contact microswitch |
|---|---|---|---|---|---|---|---|
| 100 to 130 V 50/60 Hz | 16 A | 2 P + ⏚ | – | 0519 10 | – | 0519 10+ 0520 49 | 0521 96 |
| 200 to 250 V 50/60 Hz | 16 A | 2 P + ⏚ | – | 0520 02 | – | 0520 02+ 0520 49 | 0521 96 |
| | | 3 P + ⏚ | – | 0520 03 | – | 0520 03+ 0520 49 | 0521 96 |
| | | 3 P + N + ⏚ | – | 0520 04 | – | 0520 04+ 0522 49 | 0521 96 |
| | 32 A | 2 P + ⏚ | – | 0527 02 | – | 0527 02+ 0529 49 | 0521 96 |
| | | 3 P + ⏚ | – | 0527 03 | – | 0527 03+ 0529 49 | 0521 96 |
| 380 to 415 V 50/60 Hz | 16 A | 3 P + ⏚ | 0522 13 | 0522 03 | 0522 13+ 0520 59 | 0522 03+ 0520 49 | 0521 96 |
| | | 3 P + N + ⏚ | 0522 14 | 0522 04 | 0522 14+ 0529 59 | 0522 04+ 0522 49 | 0521 96 |
| | 32 A | 3 P + ⏚ | 0529 13 | 0529 03 | 0529 13+ 0522 59 | 0529 03+ 0529 49 | 0521 96 |
| | | 3 P + N + ⏚ | 0529 14 | 0529 04 | 0529 14+ 0522 59 | 0529 04+ 0529 49 | 0521 96 |
| | 63 A | 3 P + ⏚ | 0538 00 | 0536 03 | 0538 00+ 0538 09 | 0536 03+ 0537 49 | 0521 96 |
| | | 3 P + N + ⏚ | 0538 01 | 0536 04 | 0538 01+ 0538 09 | 0536 04+ 0537 49 | 0521 96 |

**For voltages/arrangements not listed in this table, please contact us on +44 (0) 845 605 4333**
For pack quantities, see opposite and p.169

# Hypra® Prisinter IP 44/55 - LV 16 A
## interlocked switched sockets

0520 02

Turn plug to lock in position and connect power

Press the isolator button to disconnect power and remove the plug

0522 13

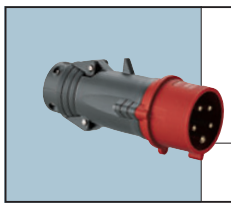
0522 49

*Technical information and dimensions (p. 170-171)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS EN 60309-2
IP 44 when plug inserted
IP 54 when used with IP 66/67-55 straight plugs
IP 55 with cover closed or used with IP 66/67-55 angled plugs
IK 09 (plastic)
IK 10 (metal)
Stainless steel screws
Brass contacts

| Pack | Cat. Nos. Metal | Cat. Nos. Plastic | |
|---|---|---|---|
| | | | **Prisinter panel mounting sockets 16 A** |
| | | | Load break disconnect at the push of the button |
| | | | Accepts Ø6 mm padlock with cover closed |
| | | | Terminals accept 1·5 mm² to 4 mm² rigid cable (BS EN 60309-1 and IEC 60309-1) |
| | | | Possibility to fit 2 auxiliary C/O contacts |
| | | | Cat. No. 0521 96 |
| | | | 100/130 V∿ |
| 1 | | 0519 10 | 2 P + ⏚ |
| | | | 200/250 V∿ |
| 1 | | 0520 02 | 2 P + ⏚ |
| 1 | | 0520 03 | 3 P + ⏚ |
| 1 | | 0520 04 | 3 P + N + ⏚ |
| | | | 380/415 V∿ |
| 1 | 0522 13 | 0522 03 | 3 P + ⏚ |
| 1 | 0522 14 | 0522 04 | 3 P + N + ⏚ |

| Pack | Cat. Nos. Metal | Cat. Nos. Plastic | |
|---|---|---|---|
| | | | **Surface mounting boxes** |
| | | | Enable Hypra Prisinter panel mounting sockets to be surface mounted |
| | | | Reversible entry box with 3 x M20 entries with 2 blanking plugs plus rear knockout entries |
| 1 | 0520 59 | 0520 49 | For 2 P + ⏚ / 3 P + ⏚ sockets |
| 1 | 0529 59 | 0522 49 | For 3 P + N + ⏚ sockets |



**For IP 44 straight plugs**

**see p. 174**

**For IP 66/67-55 angled and straight plugs**

**see p. 180**

# Hypra® Prisinter IP 44/55 - LV 32 A
**interlocked switched sockets**

0529 13

Turn plug to lock in position and connect power

Press the isolator button to disconnect power and remove the plug

0529 04 + 0529 49

*Technical information and dimensions (p. 170-171)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS EN 60309-2
IP 44 when plug inserted
IP 54 when used with IP 66/67-55 straight plugs
IP 55 with cover closed or used with IP 66/67-55 angled plugs
IK 09 (plastic)
IK 10 (metal)
Stainless steel screws
Brass contacts

| Pack | Cat. Nos. Metal | Cat. Nos. Plastic | Prisinter panel mounting sockets 32 A |
|---|---|---|---|
| | | | Load break disconnect at the push of the button<br>Accepts Ø6 mm padlock with cover closed<br>Terminals accept 2·5 mm² to 10 mm² rigid cable (BS EN 60309-1 and IEC 60309-1)<br>Possibility to fit 2 auxiliary C/O contacts<br>Cat. No. 0521 96 |
| | | | 200/250 V∿ |
| 1 | | 0527 02 | 2 P + ⏚ |
| 1 | | 0527 03 | 3 P + ⏚ |
| | | | 380/415 V∿ |
| 1 | 0529 13 | 0529 03 | 3 P + ⏚ |
| 1 | 0529 14 | 0529 04 | 3 P + N + ⏚ |

| Pack | Cat. Nos. Metal | Cat. Nos. Plastic | Surface mounting boxes |
|---|---|---|---|
| | | | Enable Hypra Prisinter panel mounting sockets to be surface mounted<br>Reversible entry box with 2 x M25 and 1 x M20 entries with 1 x M25 and 1 x M20 blanking plugs plus rear knockout entries |
| 1 | 0522 59 | 0529 49 | For 2 P + ⏚ / 3 P + ⏚ / 3 P + N + ⏚ sockets |

# Hypra® Prisinter IP 44/55 - LV 63 A
**interlocked switched sockets**

0538 00 + 0538 09

Turn plug to lock in position and connect power

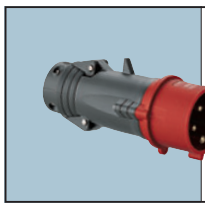
Press the isolator button to disconnect power and remove the plug

*Technical information and dimensions (p. 170-171)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS EN 60309-2
IP 44 when plug inserted
IP 54 when used with IP 66/67-55 straight plugs
IP 55 with cover closed or used with IP 66/67-55 angled plugs
IK 09 (plastic)
IK 10 (metal)
Stainless steel screws
Brass contacts

| Pack | Cat. Nos. Metal | Cat. Nos. Plastic | Prisinter panel mounting sockets 63 A |
|---|---|---|---|
| | | | Load break disconnect at the push of the button<br>Accepts 3 x Ø8 mm padlocks with cover closed<br>IP 2x protection against direct contact<br>Terminals accept 6 mm² to 25 mm² rigid cable<br>Possibility to fit 2 auxiliary C/O contacts<br>Cat. No. 0521 96 |
| | | | 380/415 V∿ |
| 1 | 0538 00 | 0536 03 | 3 P + ⏚ |
| 1 | 0538 01 | 0536 04 | 3 P + N + ⏚ |

| Pack | Cat. Nos. Metal | Cat. Nos. Plastic | Surface mounting boxes |
|---|---|---|---|
| | | | Enable Hypra Prisinter panel mounting sockets to be surface mounted<br>Reversible entry box with 2 x M32 and 1 x M20 entries with 1 x M32 and 1 x M20 blanking plugs |
| 1 | 0538 09 | 0537 49 | For 3 P + ⏚ / 3 P + N + ⏚ sockets |



**For IP 44 straight plugs**

**see p. 174**

**For IP 66/67-55 angled and straight plugs**

**see p. 180**

# Hypra® Prisinter IP 44/55 - LV 16/32/63 A

**panel mounting interlocked switched sockets**

## ■ Technical information

Icc 10 kA according to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2

IP rating according to BS EN 60529 and IEC 60529 :
IP 44 when plug inserted
IP 54 when used with IP 66/67-55 straight plugs
IP 55 with cover closed or used with IP 66/67-55 angled plugs

**Resistance to glow wire and dielectric strength**

Glow wire :
960° C for live part supports
650° C for other parts
Dielectric strength : 3 000 V 50 Hz

**Temperatures**

–20 °C to + 100 °C (+80 °C with auxiliary fitted)
Installation : –20 °C / +40 °C
Use : –20 °C / +100 °C

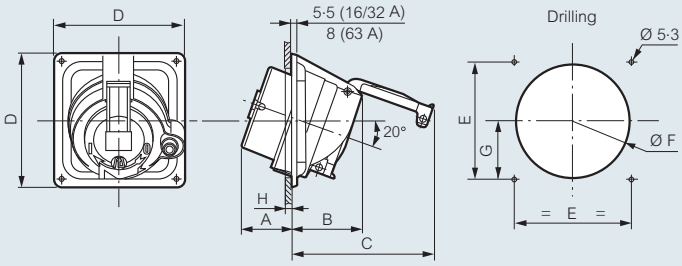
**Hypra Prisinter breaking capacity at 3 x 400 V∿ according to BS EN 60947-1, BS EN 60947-3, IEC 60947-1 and IEC 60947-3 :**

| Category | 16 A | 32 A | 63 A |
|---|---|---|---|
| AC 1 | 16 A | 32 A | 63 A |
| AC 23 | 8·4 kW | 16·8 kW | 33 kW |
| AC 3 | 8·4 kW | 16·8 kW | 33 kW |

IK according to BS EN 62262 and IEC 62262
IK 09 : Plastic
IK 10 : Metal
Stainless steel screws
Brass contacts

## ■ Dimensions

**Prisinter panel mounting sockets IP 44/55 - LV 16/32/63 A**
(p. 168-169)




| | Material | Weight (kg) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) min. | F (mm) max. | G (mm) | H (mm) max. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | |
| 2 P + ⏚ | Plastic | 0·42 | 46 | 70 | 132 | 115 | 100 | 92 | 98 | 46 | 6 to 10 |
| 3 P + ⏚ | Plastic | 0·48 | 46 | 70 | 138 | 115 | 100 | 92 | 96 | 46 | 6 to 10 |
| | Metal | 1·33 | | | | | | | | | |
| 3 P + N + ⏚ | Plastic | 0·57 | 46 | 75 | 156 | 125 | 110 | 102 | 106 | 51·5 | 7 |
| | Metal | 1·47 | | | | | | | | | |
| **LV 32 A** | | | | | | | | | | | |
| 2 P + ⏚ | Plastic | 0·57 | 54 | 77 | 153 | 143 | 125 | 115 | 122 | 58·5 | 10 to 20 |
| 3 P + ⏚ | Plastic | 0·61 | 54 | 77 | 153 | 143 | 125 | 115 | 122 | 58·5 | 10 to 20 |
| | Metal | 1·5 | | | | | | | | | |
| 3 P + N + ⏚ | Plastic | 0·65 | 55 | 79 | 169 | 143 | 125 | 119 | 122 | 58·5 | 9 to 13 |
| | Metal | 1·8 | | | | | | | | | |
| **LV 63 A** | | | | | | | | | | | |
| 3 P + ⏚ | Plastic | 0·95 | 55 | 99 | 205 | 143 | 125 | 120 | 122 | 59·5 | 10 to 20 |
| | Metal | 1·85 | | | | | | | | | |
| 3 P + N + ⏚ | Plastic | 0·98 | 55 | 99 | 205 | 143 | 125 | 120 | 122 | 59·5 | 10 to 20 |
| | Metal | 2·2 | | | | | | | | | |

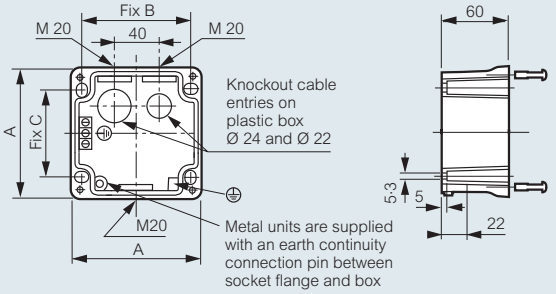
## ■ Accessories

Auxiliary contacts (–20 °C to +80 °C)
Prisinter sockets can accommodate two c/o auxiliary contacts (late make/early break) Cat. No. 0521 96 p. 168
These may be used to signal to a central control/monitoring station or control a contactor to remove load
Padlockable cover in closed position

# Hypra® Prisinter IP 44/55
**surface mounting back boxes**

## ■ Dimensions

**LV 16 A** (p. 168)

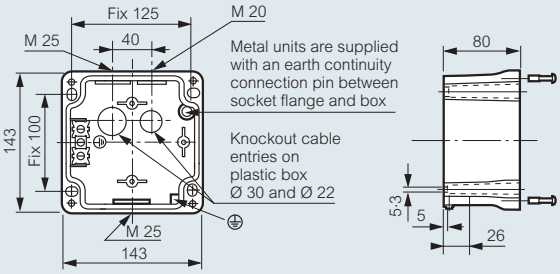



3 x M20 entries with 2 x M20 blanking plugs

Equipped with :
2 earth terminals inside and 1 external (metal box)
2 earth terminals inside (plastic box)

| | Material | Weight (kg) | A (mm) | B (mm) | C (mm) |
|---|---|---|---|---|---|
| 2 P + ⏚<br>3 P + ⏚ | Plastic | 0·14 | 115 | 97 | 78 |
| 3 P + N + ⏚ | Plastic | 0·16 | 125 | 107 | 88 |
| | Metal | 0·9 | | | |

**LV 32 A** (p. 169)

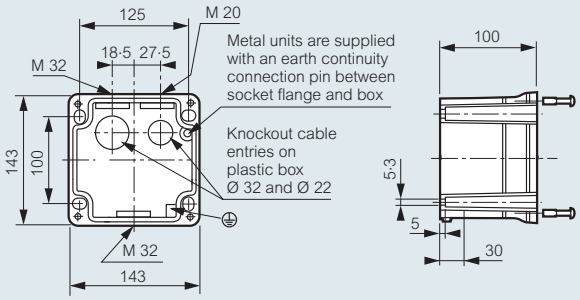



Reversible boxes
1 x M20 entry with 1 x M20 blanking plug
2 x M25 entries with 1 x M25 blanking plug

Equipped with :
2 earth terminals inside and 1 external (metal box)
1 earth terminal inside (plastic box)

| Material | Weight (kg) |
|---|---|
| Plastic | 0·3 |
| Metal | 1·7 |

**LV 63 A** (p. 169)



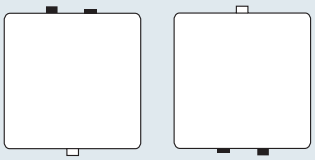

Reversible boxes
1 x M20 entry with 1 x M20 blanking plug
2 x M32 entries with 1 x M32 blanking plug
Equipped with external earth terminal on the metal box

| Material | Weight (kg) |
|---|---|
| Plastic | 0·35 |
| Metal | 1·75 |

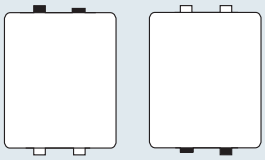
## ■ Box entries

Prisinter boxes can be rotated to aid entry

**LV 16/32 A**



**LV 63 A**



# Hypra® plugs and sockets...

## for when the going gets tough

**The Hypra range is aimed at installations where maximum durability is a must... including the nuclear, chemical and process industries.**

### The highest levels of protection and reliability

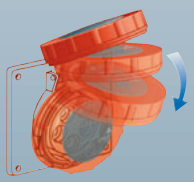
Available in IP44 and IP66/67-55 rated versions and manufactured in Polyamide 6, Hypra plugs and sockets are ideal for use in harsh and demanding environments.

The plastic and rubber units are IK09 rated, while the class leading metal units are IK10 rated – the highest rating for impact.

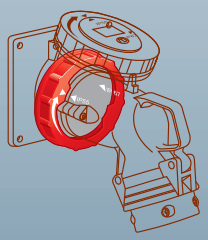
**FEATURES:**

- **Integrated cable gland on entire IP66/67-55 range** - providing the highest levels of ingress protection
- **Captive, slotted connection screws** - for fast secure connections
- **Nickel-plated brass pins and contact sleeves** - creating high quality, reliable connections
- **Captive, stainless steel external screws** - maximise durability
- **Double jaw cable clamps** - provide powerful cable fastening
- **Available in 2 ranges** - IP44 and IP66/67-55

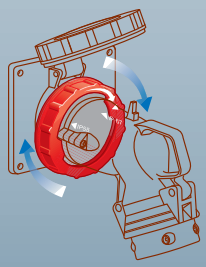
### UNDERSTANDING THE IP66/67-55 RATING



IP 55 assured automatically with cover flap down without locking ring secured



IP 55 guaranteed with IP 66/67-55 plug inserted and cover in place over spigot on plug

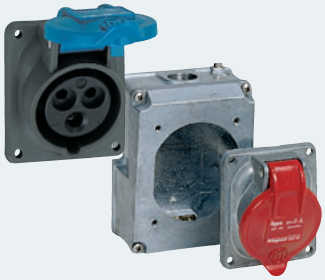


IP 66/67-55 obtained with locking ring secured

## HYPRA PLUGS AND SOCKETS – options for every application

### Straight / angled plugs and mobile sockets

CURRENT RATING – 16A, 32A, 63A, 125A
VOLTAGES – 20-25V, 20-50V, 110V, 240V, 400V
PIN CONFIG – 2P, 3P, 2P+E, 3P+E, 3P+N+E
IP RATING – IP44, IP66/67-55



### Surface / panel mounting socket outlets

CURRENT RATING – 16A, 32A, 63A, 125A
VOLTAGES – 20-25V, 20-50V, 110V, 240V, 400V
PIN CONFIG – 2P, 3P, 2P+E, 3P+E, 3P+N+E
IP RATING – IP44, IP66/67-55

### Appliance inlets

CURRENT RATING – 16A, 32A, 63A, 125A
VOLTAGES – 20-25V, 20-50V, 110V, 240V, 400V
PIN CONFIG – 2P, 3P, 2P+E, 3P+E, 3P+N+E
IP RATING – IP44, IP66/67-55

## TECHNICAL DATA

**APPROVALS:** BS EN 60309-1
BS EN 60309-2
BS EN 60529 (IP)
BS EN 62262 (IK)

Products are interchangeable with other manufacturers' products which meet the BS EN 60309-2 standard

**PROTECTION:** IP44 and IP66/67-55 ranges available
IK09 for plastic products, IK10 for metal products

**SELF EXTINGUISHING:** 850°C for insulated parts, 650°C for housing

**OPERATING TEMPERATURE:** -50°C to +100°C

# Hypra® plugs and sockets IP 44 - ELV 16 A and LV 16/32/63 A

## selection chart

**Conform to :**
**BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2**
**IP 44 according to BS EN 60529 and IEC 60529**
**IK 09 plastic**
**IK 10 metal according to BS EN 62262 and IEC 62262**
Self-extinguishing :
850 °C for insulated parts
650 °C for housing - conforms to BS EN 60695-2-10 and IEC 60695-2-10
Temp. rating : –50 °C to +100 °C

*Technical information and dimensions (p. 177-179)*

(Covers available, see bottom of page)

| | | | Straight plugs | Mobile sockets | Panel appliance inlets | Surface mounting sockets | | Through entry surface mounting sockets | Panel mounting sockets | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **ELV** | | | PLASTIC | PLASTIC | PLASTIC | METAL | PLASTIC | PLASTIC | METAL | PLASTIC | MODULAR(1) |
| 20 to 25 V 50/60 Hz | 16 A | 2 P | 0524 21 | 0524 61 | – | – | 0524 01+ 0524 19 | – | – | 0524 01 | – |
| | | 3 P | 0524 22 | 0524 62 | – | – | 0524 02+ 0524 19 | – | – | 0524 02 | – |
| 20 to 50 V D.C. ⎓ | 16 A | 2 P | 0524 25 | – | – | – | 0524 05+ 0524 19 | – | – | 0524 05 | – |
| **LV** | | | | | | | | | | | |
| 100 to 130 V 50/60 Hz | 16 A | 2 P + ⏚ | 0519 40 | 0519 80 | 0519 70 | – | 0519 20+ 0520 29 | 0519 20+ 0520 89 | 0519 30 | 0519 20 | 0519 19 |
| 200 to 250 V 50/60 Hz | 16 A | 2 P + ⏚ | 0520 42 | 0520 82 | 0521 72 | – | 0520 22+ 0520 29 | 0520 22+ 0520 89 | 0520 32 | 0520 22 | 0520 18 |
| | | 3 P + ⏚ | 0520 43 | 0520 83 | 0520 73 | – | 0520 23+ 0522 29 | 0520 23+ 0522 89 | 0520 33 | 0520 23 | 0520 19 |
| | | 3 P + N + ⏚ | 0520 44 | 0520 84 | – | – | 0520 24+ 0522 29 | 0520 24+ 0522 89 | 0520 34 | 0520 24 | – |
| | 32 A | 2 P + ⏚ | 0527 42 | 0527 82 | 0528 72 | – | 0527 18+ 0529 40 | 0527 18+ 0529 90 | 0527 32 | – | 0527 18 |
| | | 3 P + ⏚ | 0527 43 | 0527 83 | – | – | 0527 19+ 0529 40 | 0527 19+ 0529 90 | 0527 33 | – | 0527 19 |
| 380 to 415 V 50/60 Hz | 16 A | 3 P + ⏚ | 0522 43 | 0522 83 | 0521 73 | 0522 33+ 0522 39 | 0522 23+ 0522 29 | 0522 23+ 0522 89 | 0522 33 | 0522 23 | 0522 19 |
| | | 3 P + N + ⏚ | 0522 44 | 0522 84 | 0521 74 | 0522 34+ 0522 39 | 0522 24+ 0522 29 | 0522 24+ 0522 89 | 0522 34 | 0522 24 | 0522 20 |
| | 32 A | 3 P + ⏚ | 0529 43 | 0529 83 | 0528 73 | 0529 33+ 0529 39 | 0529 19+ 0529 40 | 0529 19+ 0529 90 | 0529 33 | – | 0529 19 |
| | | 3 P + N + ⏚ | 0529 44 | 0529 84 | 0528 74 | 0529 34+ 0529 39 | 0529 20+ 0529 40 | 0529 20+ 0529 90 | 0529 34 | – | 0529 20 |
| | 63 A | 3 P + ⏚ | 0538 43 | 0538 83 | 0537 73 | – | – | – | 0538 33 | 0538 23 | – |
| | | 3 P + N + ⏚ | 0538 44 | 0538 84 | 0537 74 | – | 0537 24 | – | 0538 34 | 0538 24 | – |

(1) Modular sockets are manufactured from plastic with 70 x 70 mm fixing centres

**For voltages/arrangements not listed in this table, please contact us on +44 (0) 845 605 4333**
For pack quantities, p. 175-176

## APPLIANCE INLET COVERS

**Conform to :**
**BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2**
Material : Rubber
Self-extinguishing : 650 °C
Temp. rating : –20 °C to +40 °C

*Dimensions (p. 177)*

| | | Pack | Cat. Nos. |
|---|---|---|---|
| 16 A | 2 P + ⏚ | 10 | 0521 25 |
| | 3 P + ⏚ | 5 | 0521 26 |
| | 3 P + N + ⏚ | 5 | 0521 27 |
| 32 A | 2 P + ⏚ | 5 | 0521 27 |
| | 3 P + ⏚ | 5 | 0521 27 |
| | 3 P + N + ⏚ | 5 | 0527 99 |
| 63 A | 3 P + ⏚ | 5 | 0536 99 |
| | 3 P + N + ⏚ | 5 | 0536 99 |

time saving

**Modular sockets have 70 x 70 mm fixing centres across 16 A and 32 A range**

**see p. 175-176**

# Hypra® IP 44 - ELV 16 A and LV 16 A

**metal and plastic plugs and sockets**

0524 61

0522 44

0520 82

0521 73

0522 33 + 0522 39

*Technical information and dimensions (p. 177-179)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2
IP 44 according to BS EN 60529 and IEC 60529
IK 09 plastic
IK 10 metal according to BS EN 62262 and IEC 62262
Self-extinguishing : 850 °C for insulated parts
650 °C for housing - conforms to BS EN 60695-2-10 and IEC 60695-2-10
Temp. rating : –50 °C to +100 °C
Nickel plated brass contacts

0520 22

0522 19

## Straight plugs 16 A

| Pack | Cat. Nos. | |
|---|---|---|
| | ELV Plastic | 20 to 25 V∿ |
| 5 | 0524 21 | 2 P |
| 1 | 0524 22 | 3 P |
| | | 20 to 50 V⎓ |
| 1 | 0524 25 | 2 P |
| | LV Plastic | 100 to 130 V∿ |
| 1 | 0519 40 | 2 P + ⏚ |
| | | 200 to 250 V∿ |
| 5 | 0520 42 | 2 P + ⏚ |
| 1 | 0520 43 | 3 P + ⏚ |
| 1 | 0520 44 | 3 P + N + ⏚ |
| | | 380 to 415 V∿ |
| 5 | 0522 43 | 3 P + ⏚ |
| 1 | 0522 44 | 3 P + N + ⏚ |

## Mobile sockets 16 A

| Pack | Cat. Nos. | |
|---|---|---|
| | ELV Plastic | 20 to 25 V∿ |
| 1 | 0524 61 | 2 P |
| 1 | 0524 62 | 3 P |
| | LV Plastic | 100 to 130 V∿ |
| 1 | 0519 80 | 2 P + ⏚ |
| | | 200 to 250 V∿ |
| 1 | 0520 82 | 2 P + ⏚ |
| 1 | 0520 83 | 3 P + ⏚ |
| NEW 1 | 0520 84 | 3 P + N + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0522 83 | 3 P + ⏚ |
| 1 | 0522 84 | 3 P + N + ⏚ |

## Panel appliance inlets 16 A

Covers available, see opposite

| Pack | Cat. Nos. | |
|---|---|---|
| | LV Plastic | 100 to 130 V∿ |
| 1 | 0519 70 | 2 P + ⏚ |
| | | 200 to 250 V∿ |
| 1 | 0521 72 | 2 P + ⏚ |
| NEW 1 | 0520 73 | 3 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0521 73 | 3 P + ⏚ |
| 1 | 0521 74 | 3 P + N + ⏚ |

## Panel mounting sockets 16 A

| Pack | Cat. Nos. Metal | Cat. Nos. Plastic | |
|---|---|---|---|
| | ELV | | 20 to 25 V∿ |
| 5 | | 0524 01 | 2 P |
| 1 | | 0524 02 | 3 P |
| | | | 20 to 50 V⎓ |
| 1 | | 0524 05 | 2 P |
| | LV | | 100 to 130 V∿ |
| 1 | 0519 30 | 0519 20 | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 1/5 | 0520 32 | 0520 22 | 2 P + ⏚ |
| 1 | 0520 33 | 0520 23 | 3 P + ⏚ |
| NEW 1 | 0520 34 | 0520 24 | 3 P + N + ⏚ |
| | | | 380 to 415 V∿ |
| 1/5 | 0522 33 | 0522 23 | 3 P + ⏚ |
| 1 | 0522 34 | 0522 24 | 3 P + N + ⏚ |
| | Plastic modular | | 100 to 130 V∿ |
| 1 | 0519 19 | | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 5 | 0520 18 | | 2 P + ⏚ |
| 1 | 0520 19 | | 3 P + ⏚ |
| | | | 380 to 415 V∿ |
| 5 | 0522 19 | | 3 P + ⏚ |
| 1 | 0522 20 | | 3 P + N + ⏚ |

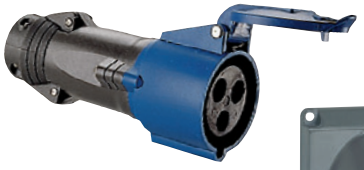
## Back boxes

| Pack | Metal | Plastic | |
|---|---|---|---|
| | | | **Surface mounting boxes** |
| 5 | | 0524 19 | For ELV 2 P / 3 P sockets |
| 5 | | 0520 29 | For LV 16 A 2 P + ⏚ sockets |
| 5 | 0522 39 | 0522 29 | For LV 16 A 3 P + ⏚ / 3 P + N + ⏚ sockets |
| | | Plastic | **Through entry surface mounting boxes** |
| 1 | | 0520 89 | For LV 16 A 2 P + ⏚ sockets |
| 5 | | 0522 89 | For LV 16 A 3 P + ⏚ / 3 P + N + ⏚ sockets |

## Appliance inlet covers

| Pack | Cat. Nos. | |
|---|---|---|
| 10 | 0521 25 | For LV 16 A 2 P + ⏚ appliance inlets |
| 5 | 0521 26 | For LV 16 A 3 P + ⏚ appliance inlets |
| 5 | 0521 27 | For LV 16 A 3 P + N + ⏚ appliance inlets |

# Hypra® IP 44 - LV 32 A
## metal and plastic plugs and sockets


0527 82

0529 34

0528 72

0529 19 + 0529 90

*Technical information and dimensions (p. 177-179)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2
IP 44 according to BS EN 60529 and IEC 60529
IK 09 plastic
IK 10 metal according to BS EN 62262 and IEC 62262
Self-extinguishing : 850 °C for insulated parts
650 °C for housing - conforms to BS EN 60695-2-10 and IEC 60695-2-10
Temp. rating : –50 °C to +100 °C
Nickel plated brass contacts

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Straight plugs 32 A** |
| | Plastic | 200 to 250 V∿ |
| 1 | 0527 42 | 2 P + ⏚ |
| 1 | 0527 43 | 3 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0529 43 | 3 P + ⏚ |
| 1 | 0529 44 | 3 P + N + ⏚ |
| | | **Mobile sockets 32 A** |
| | Plastic | 200 to 250 V∿ |
| 1 | 0527 82 | 2 P + ⏚ |
| 1 | 0527 83 | 3 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0529 83 | 3 P + ⏚ |
| 1 | 0529 84 | 3 P + N + ⏚ |
| | | **Panel appliance inlets 32 A** |
| | | Covers available, see below |
| | Plastic | 200 to 250 V∿ |
| 1 | 0528 72 | 2 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0528 73 | 3 P + ⏚ |
| 1 | 0528 74 | 3 P + N + ⏚ |
| | | **Panel mounting sockets 32 A** |
| | Metal / Modular | 200 to 250 V∿ |
| 1 | 0527 32 / 0527 18 | 2 P + ⏚ |
| | NEW | |
| 1 | 0527 33 / 0527 19 | 3 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0529 33 / 0529 19 | 3 P + ⏚ |
| 1 | 0529 34 / 0529 20 | 3 P + N + ⏚ |
| | | **Back boxes** |
| | Metal / Plastic | **Surface mounting boxes** |
| 1 | 0529 39 / 0529 40 | For LV 32 A 2 P + ⏚ / 3 P + ⏚ / 3 P + N + ⏚ sockets |
| | Plastic | **Through entry surface mounting boxes** |
| 5 | 0529 90 | For LV 32 A 2 P + ⏚ / 3 P + ⏚ / 3 P + N + ⏚ sockets |
| | | **Appliance inlet covers** |
| 5 | 0521 27 | For LV 32 A 2 P + ⏚ / 3 P + ⏚ appliance inlets |
| 5 | 0527 99 | For LV 32 A 3 P + N + ⏚ appliance inlets |

# Hypra® IP 44 - LV 63 A
## metal and plastic plugs and sockets

0538 44

*Technical information and dimensions (p. 177-179)*

Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2
IP 44 according to BS EN 60529 and IEC 60529
IK 09 plastic
IK 10 metal according to BS EN 62262 and IEC 62262
Self-extinguishing : 850 °C for insulated parts
650 °C for housing - conforms to BS EN 60695-2-10 and IEC 60695-2-10
Temp. rating : –50 °C to +100 °C
Nickel plated brass contacts. 63 A units have a pilot pin

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Straight plugs 63 A** |
| | Plastic | 380 to 415 V∿ |
| 1 | 0538 43 | 3 P + ⏚ |
| 1 | 0538 44 | 3 P + N + ⏚ |
| | | **Mobile sockets 63 A** |
| | Plastic | 380 to 415 V∿ |
| 1 | 0538 83 | 3 P + ⏚ |
| 1 | 0538 84 | 3 P + N + ⏚ |
| | | **Panel appliance inlets 63 A** |
| | Plastic | 380 to 415 V∿ |
| 1 | 0537 73 | 3 P + ⏚ |
| 1 | 0537 74 | 3 P + N + ⏚ |
| | | **Surface mounting socket 63 A** |
| | Plastic | 380 to 415 V∿ |
| 1 | 0537 24 | 3 P + N + ⏚ |
| | | **Panel mounting sockets 63 A** |
| | Metal / Plastic | 380 to 415 V∿ |
| 1 | 0538 33 / 0538 23 | 3 P + ⏚ |
| 1 | 0538 34 / 0538 24 | 3 P + N + ⏚ |
| | | **Appliance inlet cover** |
| 5 | 0536 99 | For LV 63 A 3 P + ⏚ / 3 P + N + ⏚ appliance inlets |

# Hypra® IP 44 - ELV 16 A and LV 16/32/63 A

**metal and plastic plugs and sockets**

## ■ Technical information

IP 44 conforms to BS EN 60529 and IEC 60529
Icc 10 kA according to BS EN 60309-1 and IEC 60309-1
Stainless steel external screws - Nickel plated brass contacts
IK according to BS EN 62262 and IEC 62262 : plastic = IK 09
metal = IK 10

## ■ Wiring tested according to BS EN 60309-1

| Type | Current | Conductors size (mm≤) | Conductors type |
|---|---|---|---|
| Straight plugs and mobile sockets | ELV 16 A | 4 to 10 | Flexible |
| | LV 16 A | 1 to 2·5 | Flexible |
| | LV 32 A | 2·5 to 6 | Flexible |
| | LV 63 A | 6 to 16 | Flexible |
| Panel appliance inlets | ELV 16 A | 4 to 10 | Rigid |
| | LV 16 A | 1 to 2·5 | Rigid |
| | LV 32 A | 2·5 to 6 | Rigid |
| | LV 63 A | 6 to 16 | Rigid |
| Surface and panel mounting sockets | ELV 16 A | 4 to 10 | Rigid |
| | LV 16 A | 1·5 to 4 | Rigid |
| | LV 32 A | 2·5 to 10 | Rigid |
| | LV 63 A | 6 to 25 | Rigid |

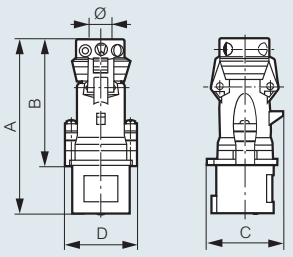
### Tightening torque of connection screws

ELV 16 A : from 1 to 1·2 Nm
LV 16 A : from 0·7 to 1 Nm
LV 32 A : from 0·7 to 1 Nm
LV 63 A : from 2 to 2·2 Nm for Phase and Earth
from 0·7 to 1 Nm for pilot

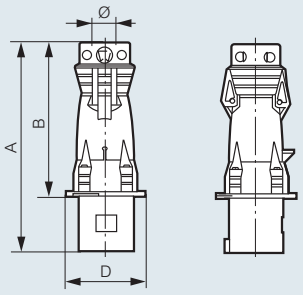
## ■ Dimensions

### Straight plugs IP 44

**ELV 16 A, LV 16/32 A** (p. 175-176)




**LV 63 A** (p. 176)

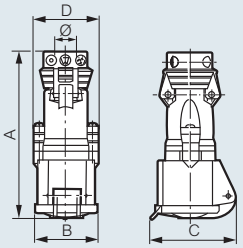



| | Material | Weight (kg) | Dimensions (mm) A | B | C | D | Ø Clamping and grip (mm) |
|---|---|---|---|---|---|---|---|
| **ELV 16 A** | | | | | | | |
| **2 P** | Plastic | 0·180 | 142 | 107 | 62 | 55 | 8·5 to 22 |
| **LV 16 A** | | | | | | | |
| **2 P + ⏚** | Plastic | 0·150 | 135 | 100 | 57 | 55 | 8 to 15 |
| **3 P + ⏚** | Plastic | 0·175 | 139 | 103 | 65 | 60 | 8 to 15 |
| **3 P + N + ⏚** | Plastic | 0·210 | 154 | 118 | 73 | 66 | 10 to 18 |
| **LV 32 A** | | | | | | | |
| **2 P + ⏚** | Plastic | 0·260 | 164 | 119 | 78 | 70·5 | 10 to 18 |
| **3 P + ⏚** | Plastic | 0·260 | 164 | 119 | 78 | 70·5 | 12 to 22 |
| **3 P + N + ⏚** | Plastic | 0·300 | 170 | 125 | 86 | 77 | 12 to 22 |
| **LV 63 A** | | | | | | | |
| **3 P + ⏚** | Plastic | 0·640 | 255 | 188·5 | – | 102 | 18·5 to 29 |
| **3 P + N + ⏚** | Plastic | 0·700 | 255 | 188·5 | – | 102 | 20·5 to 32 |

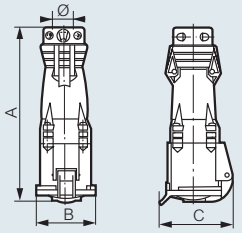
## ■ Dimensions (continued)

### Mobile sockets IP 44

**ELV 16 A, LV 16/32 A** (p. 175-176)

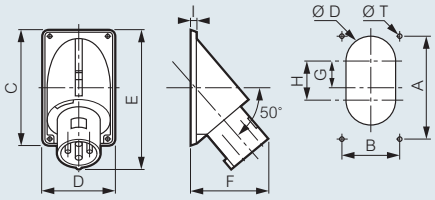



**LV 63 A**(1) (p. 176)




| | Material | Weight (kg) | Dimensions (mm) A | B | C | D | Ø Clamping and grip (mm) |
|---|---|---|---|---|---|---|---|
| **ELV 16 A** | | | | | | | |
| **2 P** | Plastic | 0·190 | 148 | 54·5 | 74 | 55 | 8·5 to 22 |
| **LV 16 A** | | | | | | | |
| **2 P + ⏚** | Plastic | 0·170 | 147 | 54·5 | 74 | 55 | 8 to 15 |
| **3 P + ⏚** | Plastic | 0·200 | 151 | 61·5 | 81 | 60 | 8 to 15 |
| **3 P + N + ⏚** | Plastic | 0·245 | 172 | 69·5 | 90 | 66 | 10 to 18 |
| **LV 32 A** | | | | | | | |
| **2 P + ⏚** | Plastic | 0·300 | 177 | 71 | 93 | 70·5 | 10 to 18 |
| **3 P + ⏚** | Plastic | 0·300 | 177 | 71 | 93 | 70·5 | 12 to 22 |
| **3 P + N + ⏚** | Plastic | 0·350 | 183 | 77·5 | 100 | 77 | 12 to 22 |
| **LV 63 A** | | | | | | | |
| **3 P + ⏚** | Plastic | 0·770 | 273 | 96 | 119 | – | 18·5 to 29 |
| **3 P + N + ⏚** | Plastic | 0·830 | 273 | 96 | 119 | – | 20·5 to 32 |

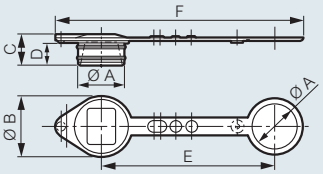
### Panel appliance inlets IP 44(1) (p. 175-176)




| | Material | Weight (kg) | Drilling (mm) A | B | ØT | ØD | G | Dimensions (mm) H | C | D | E | F | I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·140 | 94 | 62 | 4·5 | 40 | – | – | 104 | 72 | 121 | 78 | 6 |
| **3 P + ⏚** | Plastic | 0·160 | 109 | 83 | 4·5 | 40 | – | – | 120 | 94 | 135 | 86 | 6 |
| **3 P + N + ⏚** | Plastic | 0·190 | 109 | 83 | 4·5 | 40 | – | – | 120 | 94 | 139 | 86 | 6 |
| **LV 32 A** | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·280 | 149 | 90 | 5·5 | 40 | – | – | 160 | 101 | 176 | 111 | 6 |
| **3 P + ⏚** | Plastic | 0·280 | 149 | 90 | 5·5 | 40 | – | – | 160 | 101 | 176 | 111 | 6 |
| **3 P + N + ⏚** | Plastic | 0·320 | 149 | 90 | 5·5 | 40 | – | – | 160 | 101 | 174 | 108 | 6 |
| **LV 63 A** | | | | | | | | | | | | | |
| **3 P + ⏚** | Plastic | 0·630 | 163 | 93 | 6·5 | 80 | 42 | 62 | 183 | 113 | 221 | 120 | 8 |
| **3 P + N + ⏚** | Plastic | 0·690 | 163 | 93 | 6·5 | 80 | 42 | 62 | 183 | 113 | 221 | 120 | 8 |

### Appliance inlet covers (p. 175-176)

**16/32/63 A**




| Cat. Nos. | Product | Ø A (mm) | Ø B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|---|---|---|---|---|---|---|---|
| **0521 25** | 16 A – 2 P + ⏚ | 38 | 50 | 26 | 18 | 140 | 200 |
| **0521 26** | 16 A – 3 P + ⏚ | 43 | 55 | 26 | 18 | 150 | 215 |
| **0521 27** | 16 A – 3 P + N + ⏚<br>32 A – 2 P + ⏚, 3 P + ⏚ | 50 | 62 | 26 | 18 | 160 | 232 |
| **0527 99** | 32 A – 3 P + N + ⏚ | 56 | 68 | 26 | 18 | 167 | 248 |
| **0536 99** | 63 A – 2 P + ⏚, 3 P + ⏚, 3 P + N + ⏚ | 62 | 74 | 26 | 18 | 205 | 290 |

(1) Wiring diagram for 63 A shown on p. 179

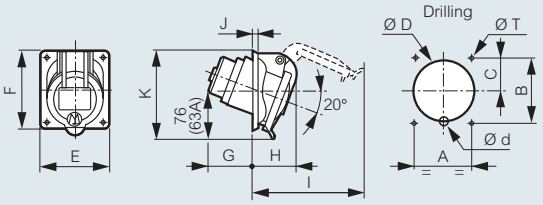
# Hypra® IP 44 - ELV 16 A and LV 16/32/63 A
metal and plastic plugs and sockets (continued)

# Hypra® IP 44 - ELV 16 A and LV 16/32 A
surface mounting back boxes

## ■ Dimensions (continued)

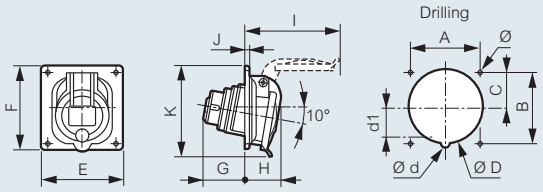
**Panel mounting sockets IP 44**

**ELV 16 A plastic and LV 16/32/63 A plastic and metal** (p. 175-176)




| | Material | Weight (kg) | Drilling (mm) A | B | C | ØD | Ød | ØT | Dimensions (mm) E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ELV 16 A** | | | | | | | | | | | | | | | |
| **2 P** | Plastic | 0·120 | 52 | 60 | 30 | 55 | – | 4·2 | 64 | 72 | 33 | 47 | 94 | 5·5 | 78·5 |
| **LV 16 A** | | | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·110 | 52 | 60 | 28 | 55 | 14·5 | 4·2 | 64 | 72 | 41 | 40 | 94 | 5·5 | 78·5 |
| | Metal | 0·340 | | | | | | | | | | | | | |
| **3 P + ⏚** | Plastic | 0·140 | 60 | 70 | 31 | 63·5 | 14·5 | 5·2 | 74 | 84 | 44 | 40 | 98 | 5·5 | 88 |
| | Metal | 0·405 | | | | | | | | | | | | | |
| **3 P + N + ⏚** | Plastic | 0·165 | 60 | 70 | 33 | 70·6 | – | 5·2 | 80 | 84 | 44 | 44 | 110 | 5·5 | 93 |
| | Metal | 0·450 | | | | | | | | | | | | | |
| **LV 32 A** | | | | | | | | | | | | | | | |
| **2 P + ⏚** | Metal | 0·605 | 70 | 80 | 38 | 76·2 | 10 | 5·2 | 84 | 94 | 50 | 53 | 120 | 5·5 | 103 |
| **3 P + ⏚** | Metal | 0·605 | 70 | 80 | 38 | 76·2 | 10 | 5·2 | 84 | 94 | 50 | 53 | 120 | 5·5 | 103 |
| **3 P + N + ⏚** | Metal | 0·660 | 70 | 80 | 38 | 76·2 | 10 | 5·2 | 84 | 94 | 52 | 56 | 124 | 5·5 | 107 |
| **LV 63 A** | | | | | | | | | | | | | | | |
| **3 P + ⏚** | Plastic | 0·640 | 77 | 85 | – | 92 | – | 6·5 | 106 | 106 | 98 | 70 | 160 | 6 | 129 |
| | Metal | 1·000 | | | | | | | | | | | | | |
| **3 P + N + ⏚** | Plastic | 0·700 | 77 | 85 | – | 92 | – | 6·5 | 106 | 106 | 98 | 70 | 160 | 6 | 129 |
| | Metal | 1·200 | | | | | | | | | | | | | |

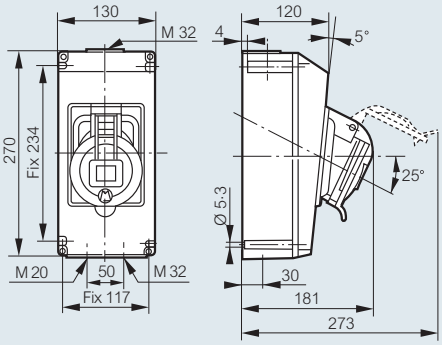
**LV 16/32 A plastic with modular fixings** (p. 175-176)




| | Weight (kg) | Drilling (mm) A | B | C | Ø D | Ø d | d1 | Dimensions (mm) E | F | G | H | I | J | K | Ø |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | | | | | |
| **2 P + ⏚** | 0·110 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 37 | 36 | 89 | 4·5 | 88 | 4·2 |
| **3 P + ⏚** | 0·140 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 43 | 36 | 97 | 4·5 | 89 | 4·2 |
| **3 P + N + ⏚** | 0·165 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 43 | 37 | 106 | 4·5 | 91 | 4·2 |
| **LV 32 A** | | | | | | | | | | | | | | | |
| **2 P + ⏚** | 0·220 | 70 | 70 | 35 | 76·2 | – | – | 84 | 94 | 54 | 45 | 117 | 4·5 | 100 | 4·2 |
| **3 P + ⏚** | 0·220 | 70 | 70 | 35 | 76·2 | – | – | 84 | 94 | 54 | 45 | 117 | 4·5 | 100 | 4·2 |
| **3 P + N + ⏚** | 0·255 | 70 | 70 | 35 | 76·2 | 8 | 36 | 84 | 94 | 54 | 46 | 125 | 4·5 | 102 | 4·2 |

**Surface mounting sockets IP 44**

**LV 63 A** (p. 176)
Boxes can be rotated to aid entry

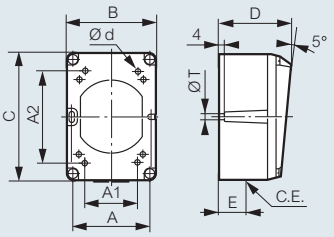



| | Material | Weight (kg) |
|---|---|---|
| **63 A** | | |
| **3 P + ⏚** | Plastic | 1·50 |

## ■ Dimensions

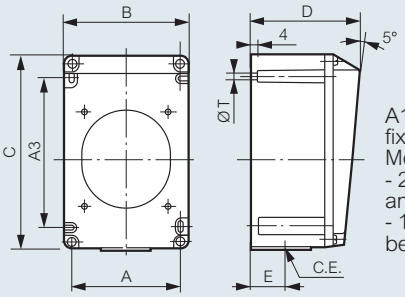
Reversible boxes for surface mounting sockets
Boxes can be rotated to aid entry

**ELV 16 A , LV 16 A** (p. 175)




A1 and A2 : optional blind fixing points
Metal boxes are equipped with :
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

**LV 32 A** (p. 176)




A1 and A2 : optional blind fixing points
Metal boxes are equipped with :
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

| Back boxes → / Panel mounting sockets ↓ | Material | Weight (kg) | Fixings (mm) A1 | A2 | Ød | A | A3 | ØT | Dimensions (mm) B | C | D | E | C.E. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ELV 16 A/32 A** | | | | | | | | | | | | | |
| **2 P** | Plastic | 0·115 | 51 | 68 | 4·2 | 64 | – | 5·3 | 74 | 106 | 58 | 20 | M 25 |
| **LV 16 A** | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·115 | 51 | 68 | 4·2 | 64 | – | 5·3 | 74 | 106 | 58 | 20 | M 20 |
| **3 P + ⏚** | Plastic | 0·160 | 68 | 68 | 4·2 | 85 | – | 5·3 | 96 | 122 | 60 | 22 | M 20 |
| | Metal | 0·520 | | | | | | | | | | | |
| **3 P + N + ⏚** | Plastic | 0·160 | 68 | 68 | 4·2 | 85 | – | 5·3 | 96 | 122 | 60 | 22 | M 20 |
| | Metal | 0·520 | | | | | | | | | | | |
| **LV 32 A** | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·340 | – | – | – | 90 | 125 | 5·3 | 102 | 162 | 90 | 26 | M 25 |
| | Metal | 0·910 | | | | | | | | | | | |
| **3 P + ⏚** | Plastic | 0·340 | – | – | – | 90 | 125 | 5·3 | 102 | 162 | 90 | 26 | M 25 |
| | Metal | 0·910 | | | | | | | | | | | |
| **3 P + N + ⏚** | Plastic | 0·340 | – | – | – | 90 | 125 | 5·3 | 102 | 162 | 90 | 26 | M 25 |
| | Metal | 0·910 | | | | | | | | | | | |

# Hypra® IP 44 - LV 16/32 A
**through entry surface mounting boxes**

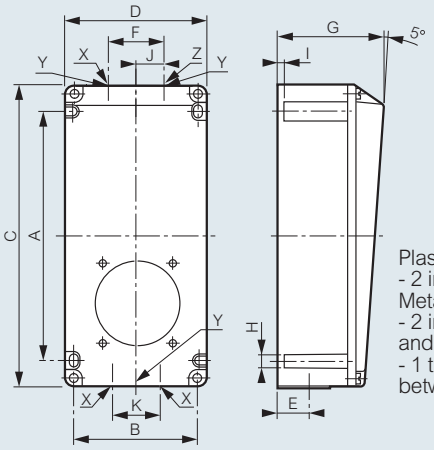
## ■ Technical information

IK 09 (plastic), IK 10 (metal) according to BS EN 62262 and IEC 62262
Contacts : nickel plated brass with stainless steel connection pins

## ■ Dimensions

Reversible boxes for surface mounting

**LV 16 to 32 A** (p. 175-176)




Plastic box equipped with :
- 2 internal linked earth terminals

Metal box equipped with :
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

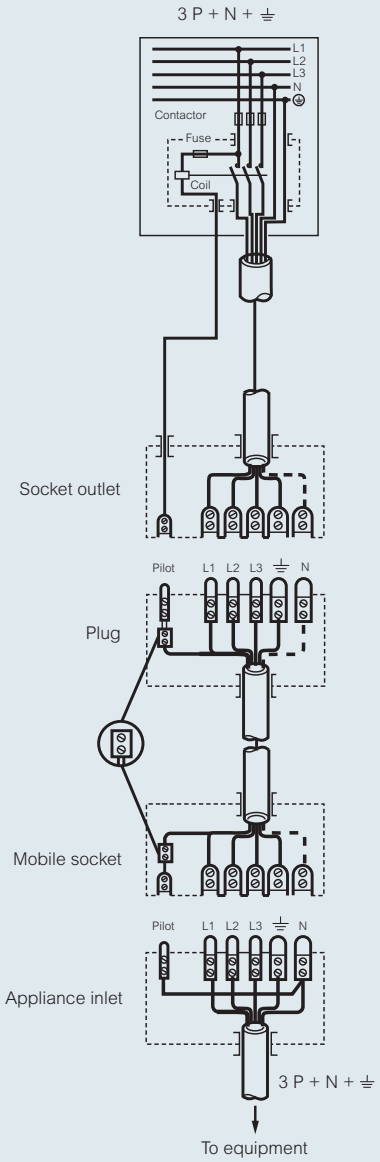
| Back boxes → / Panel mounting sockets ↓ | Material | Weight (kg) | Fixings (mm) A | B | H | Dimensions (mm) C | D | E | F | G | I | J | K | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **16 A** | | | | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·330 | 145 | 74 | 5·3 | 182 | 86 | 22 | 34 | 75 | 4 | – | – | – | M20 | – |
| **3 P + ⏚** | Plastic | 0·330 | 145 | 74 | 5·3 | 182 | 86 | 22 | 34 | 75 | 4 | – | – | – | M20 | – |
| | Metal | 0·830 | | | | | | | | | | | | | | |
| **3 P + N + ⏚** | Plastic | 0·330 | 145 | 74 | 5·3 | 182 | 86 | 22 | 34 | 75 | 4 | – | – | – | M20 | – |
| | Metal | 0·830 | | | | | | | | | | | | | | |
| **32 A** | | | | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·670 | 234 | 117 | 5·3 | 270 | 130 | 30 | 50 | 110 | 4 | – | – | – | M25 | – |
| | Metal | 1·730 | | | | | | | | | | | | | | |
| **3 P + ⏚** | Plastic | 0·670 | 234 | 117 | 5·3 | 270 | 130 | 30 | 50 | 110 | 4 | – | – | – | M25 | – |
| | Metal | 1·730 | | | | | | | | | | | | | | |
| **3 P + N + ⏚** | Plastic | 0·670 | 234 | 117 | 5·3 | 270 | 130 | 30 | 50 | 110 | 4 | – | – | – | M25 | – |
| | Metal | 1·730 | | | | | | | | | | | | | | |

Note : Through entry boxes provide extra wiring space but not looping terminals

# Hypra® IP 44 - LV 63 A
**pilot pin connection**

## ■ Example of 63 A 3 P + ⏚ and 3 P + N + ⏚ pilot pin connection

The pilot pin enables the load to be removed prior to the separation of the phase pins, when the circuit is routed via a contactor




The pilot pin connection accepts 2·5-6 mm² flexible or up to 10 mm² rigid conductor. It is the small centre pin in the connection

## ■ Pilot cabling

| | 63 A | Conductors type |
|---|---|---|
| **Plugs and mobile sockets** | 2·5 to 6 | Flexible |
| **Surface and panel mounting sockets** | 2·5 to 10 | Rigid |

# Hypra® plugs and sockets IP 66/67-55 - LV 16/32/63/125 A

selection chart

63 A AND 125 A
EASY CONNECTION/DISCONNECTION

## IP 66/67-55 - LV 16, 32, 63 AND 125 A

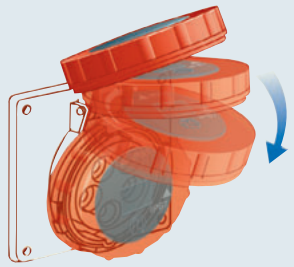
**Conform to :**
**BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2**
**IP according to BS EN 60529 and IEC 60529**
**IK 09**
Self-extinguishing :
850 °C for insulated parts
650 °C for housing
Stainless steel external screws
Temp. rating : –50 °C to +100 °C
63/125 A units have a pilot pin

*Technical information and dimensions (p. 183-185)*

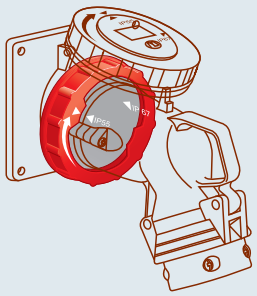
| | | | Straight plugs | Angled plugs | Mobile sockets | Surface mounting sockets[1] | Through entry surface mounting sockets | Panel mounting sockets | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | inclined outlets | modular[1] with single fixing centres |
| **LV** | | | | | | | | | |
| 100 to 130 V 50/60 Hz | 16 A | 2 P + ⏚ | 0511 55 | – | 0511 75 | 0511 25 + 0520 29 | 0511 25 + 0520 89 | 0511 25 | – |
| 200 to 250 V 50/60 Hz | 16 A | 2 P + ⏚ | 0511 56 | 0511 06 | 0511 76 | 0511 26 + 0520 29 | 0511 26 + 0520 89 | 0511 26 | 0511 46 |
| | 32 A | 2 P + ⏚ | 0530 56 | 0530 06 | 0530 76 | 0530 46 + 0529 40 | 0530 46 + 0529 90 | – | 0530 46 |
| 380 to 415 V 50/60 Hz | 16 A | 3 P + ⏚ | 0511 60 | 0511 10 | 0511 80 | 0511 30 + 0522 29 | 0511 30 + 0522 89 | 0511 30 | 0511 50 |
| | | 3 P + N + ⏚ | 0511 61 | 0511 11 | 0511 81 | 0511 31 + 0522 29 | 0511 31 + 0522 89 | 0511 31 | 0511 51 |
| | 32 A | 3 P + ⏚ | 0530 60 | 0530 10 | 0530 80 | 0530 50 + 0529 40 | 0530 50 + 0529 90 | – | 0530 50 |
| | | 3 P + N + ⏚ | 0530 61 | 0530 11 | 0530 81 | 0530 51 + 0529 40 | 0530 51 + 0529 90 | – | 0530 51 |
| 380 to 415 V 50/60 Hz | 63 A | 3 P + ⏚ | 0594 47 | – | 0594 87 | 0594 37 | – | 0594 27 | – |
| | | 3 P + N + ⏚ | 0594 48 | – | 0594 88 | 0594 38 | – | 0594 28 | – |
| | 125 A | 3 P + ⏚ | 0595 22 | – | 0595 32 | 0595 02 | – | 0595 12 | – |
| | | 3 P + N + ⏚ | 0595 23 | – | 0595 33 | 0595 03 | – | 0595 13 | – |

(1) 70 x 70 mm fixing centres

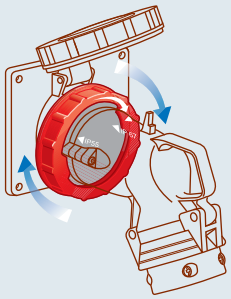
**Complete range from 16 A to 125 A : IP 55 (minimum) guaranteed**



**IP 55** assured automatically with cover flap down without locking ring secured



**IP 55** guaranteed with IP 66/67-55 plug inserted and cover in place over spigot on plug



**IP 66/67-55** obtained with locking ring secured

**For voltages/arrangements not listed in this table, please contact us on +44 (0) 845 605 4333**
For pack quantities, p. 181-182

time saving

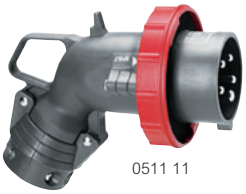
**Modular sockets have 70 x 70 mm fixing centres across 16 A and 32 A range**

**see p. 184**

# Hypra® IP 66/67-55 - LV 16 A

## plastic plugs and sockets

0511 61



0511 11

0511 81

0511 30 + 0522 29

0511 30 + 0522 89

*Technical information and dimensions (p. 183-185)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2
IP according to BS EN 60529 and IEC 60529
IK 09
Self-extinguishing : 850 °C for insulated parts, 650 °C for housing
Stainless steel external screws - Nickel plated brass contacts
Temp. rating : –50 °C to +100 °C

### Straight plugs 16 A

| Pack | Cat. Nos. | |
|---|---|---|
| | | 100 to 130 V∿ |
| 1 | 0511 55 | 2 P + ⏚ |
| | | 200 to 250 V∿ |
| 1 | 0511 56 | 2 P + ⏚ |
| | | 380 to 415 V∿ |
| 5 | 0511 60 | 3 P + ⏚ |
| 5 | 0511 61 | 3 P + N + ⏚ |

### Angled plugs 16 A

| Pack | Cat. Nos. | |
|---|---|---|
| | | 100 to 130 V∿ |
| 1 | 0511 06 | 2 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0511 10 | 3 P + ⏚ |
| 1 | 0511 11 | 3 P + N + ⏚ |

### Mobile sockets 16 A

NEW

| Pack | Cat. Nos. | |
|---|---|---|
| | | 100 to 130 V∿ |
| 1 | 0511 75 | 2 P + ⏚ |
| | | 200 to 250 V∿ |
| 1 | 0511 76 | 2 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0511 80 | 3 P + ⏚ |
| 1 | 0511 81 | 3 P + N + ⏚ |

### Panel mounting sockets 16 A

| Pack | Cat. Nos. Plastic | Cat. Nos. Modular | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 1 | 0511 25 | | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 5/1 | 0511 26 | 0511 46 | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0511 30 | 0511 50 | 3 P + ⏚ |
| 1 | 0511 31 | 0511 51 | 3 P + N + ⏚ |

### Back boxes

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Surface mounting boxes** |
| 5 | 0520 29 | For LV 16 A 2 P + ⏚ sockets |
| 5 | 0522 29 | For LV 16 A 3 P + ⏚ / 3 P + N + ⏚ sockets |
| | | **Through entry surface mounting boxes** |
| 1 | 0520 89 | For LV 16 A 2 P + ⏚ sockets |
| 5 | 0522 89 | For LV 16 A 3 P + ⏚ / 3 P + N + ⏚ sockets |

# Hypra® IP 66/67-55 - LV 32 A
## plastic plugs and sockets

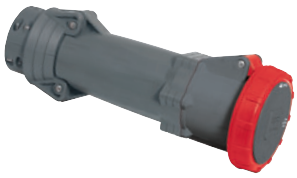
0530 50 + 0529 40

*Technical information and dimensions (p. 183-185)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS 60309-2, IEC 60309-1 and IEC 60309-2
IP according to BS EN 60529 and IEC 60529
IK 09
Self-extinguishing : 850 °C for insulated parts, 650 °C for housing
Stainless steel external screws - Nickel plated brass contacts
Temp. rating : –50 °C to +100 °C

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Straight plugs 32 A** |
| | | 100 to 130 V∿ |
| 1 | 0530 56 | 2 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0530 60 | 3 P + ⏚ |
| 1 | 0530 61 | 3 P + N + ⏚ |
| | | **Angled plugs 32 A** |
| | | 100 to 130 V∿ |
| 1 | 0530 06 | 2 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0530 10 | 3 P + ⏚ |
| 1 | 0530 11 | 3 P + N + ⏚ |
| | | **Mobile sockets 32 A** |
| | | 100 to 130 V∿ |
| 1 | 0530 76 | 2 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0530 80 | 3 P + ⏚ |
| 1 | 0530 81 | 3 P + N + ⏚ |
| | | **Panel mounting sockets (modular) 32 A** |
| | Modular | 100 to 130 V∿ |
| 1 | 0530 46 | 2 P + ⏚ |
| | | 380 to 415 V∿ |
| 1 | 0530 50 | 3 P + ⏚ |
| 1 | 0530 51 | 3 P + N + ⏚ |
| | | **Back boxes** |
| | | **Surface mounting boxes** |
| 1 | 0529 40 | For LV 32 A 2 P + ⏚ / 3 P + ⏚ / 3 P + N + ⏚ sockets |
| | | **Through entry surface mounting boxes** |
| 5 | 0529 90 | For LV 32 A 2 P + ⏚ / 3 P + ⏚ / 3 P + N + ⏚ sockets |

# Hypra® IP 66/67-55 - LV 63 and 125 A
## plastic plugs and sockets



0595 32

0594 27

*Technical information and dimensions (p. 183-185)*

Conform to BS EN 60309-1, BS 60309-2, IEC 60309-1 and IEC 60309-2
IP according to BS EN 60529 and IEC 60529
IK 09
Self-extinguishing : 850 °C for insulated parts, 650 °C for housing
Stainless steel external screws - Nickel plated brass contacts
Temp. rating : –50 °C to +100 °C
LV 63 A and 125 A have a pilot pin

| Pack | Cat. Nos. 63 A | Cat. Nos. 125 A | |
|---|---|---|---|
| | | | **Straight plugs 63 and 125 A** |
| | | | 380 to 415 V∿ |
| 1 | 0594 47 | 0595 22 | 3 P + ⏚ |
| 1 | 0594 48 | 0595 23 | 3 P + N + ⏚ |
| | | | **Mobile sockets 63 and 125 A** |
| | | | 380 to 415 V∿ |
| 1 | 0594 87 | 0595 32 | 3 P + ⏚ |
| 1 | 0594 88 | 0595 33 | 3 P + N + ⏚ |
| | | | **Surface mounting sockets 63 and 125 A** |
| | | | 380 to 415 V∿ |
| 1 | 0594 37 | 0595 02 | 3 P + ⏚ |
| 1 | 0594 38 | 0595 03 | 3 P + N + ⏚ |
| | | | **Panel mounting sockets 63 and 125 A** |
| | | | 380 to 415 V∿ |
| 1 | 0594 27 | 0595 12 | 3 P + ⏚ |
| 1 | 0594 28 | 0595 13 | 3 P + N + ⏚ |

# Hypra® IP 66/67-55 - LV 16/32/63/125 A

**plastic plugs and sockets**

## ■ Technical information

IP 66/67-55 conforms to BS EN 60529 and IEC 60529
Icc 10 kA according to BS EN 60309-1 and IEC 60309-1
Stainless steel external screws - Nickel plated brass contacts
IK according to BS EN 62262 and IEC 62262 : plastic = IK 09

## ■ Wiring tested according to BS EN 60309-1

| Type | Current | Conductors size (mm≤) | Conductors type |
|---|---|---|---|
| Plugs and mobile sockets | LV 16 A | 1 to 2·5 | Flexible |
| | LV 32 A | 2·5 to 6 | Flexible |
| | LV 63 A | 6 to 16 | Flexible |
| | LV 125 A | 16 to 50 | Flexible |
| Panel and surface mounting sockets | LV 16 A | 1·5 to 4 | Rigid |
| | LV 32 A | 2·5 to 10 | Rigid |
| | LV 63 A | 6 to 25 | Rigid |
| | LV 125 A | 25 to 70 | Rigid |

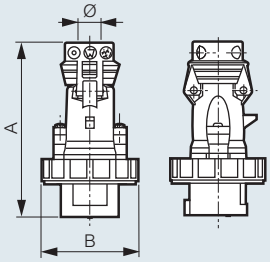
### Tightening torque of connection screws

LV 16 A : from 0·7 to 1 Nm
LV 32 A : from 0·7 to 1 Nm
LV 63 A : from 2 to 2·2 Nm for Phase and Earth
from 0·7 to 1 Nm for pilot
LV 125 A : from 3 to 4 Nm for Phase and Earth
from 0·7 to 1 Nm for pilot

## ■ Dimensions

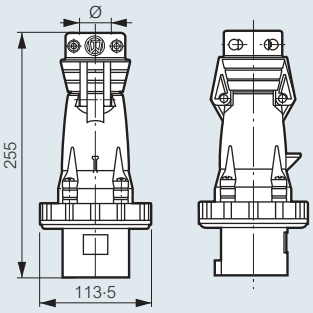
### Straight plugs IP 66/67-55

**LV 16/32 A** (p. 181-182)



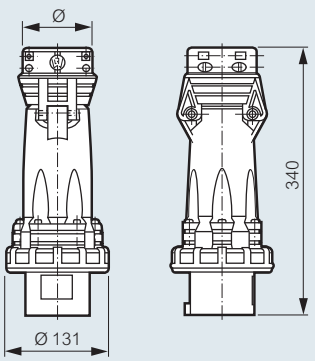

| | Weight (kg) | A (mm) | B (mm) | Ø Clamping and grip (mm) |
|---|---|---|---|---|
| **LV 16 A** | | | | |
| 2 P + ⏚ | 0·165 | 135 | 72·5 | 8 to 15 |
| 3 P + ⏚ | 0·195 | 139 | 81 | 8 to 15 |
| 3 P + N + ⏚ | 0·220 | 154 | 86·5 | 10 to 18 |
| **LV 32 A** | | | | |
| 2 P + ⏚ | 0·280 | 164 | 94·5 | 10 to 18 |
| 3 P + ⏚ | 0·280 | 164 | 94·5 | 12 to 22 |
| 3 P + N + ⏚ | 0·325 | 170 | 101 | 12 to 22 |

**LV 63 A** (p. 182)




| | Weight (kg) | Ø Clamping and grip (mm) |
|---|---|---|
| **LV 63 A** | | |
| 3 P + ⏚ | 0·680 | 18·5 to 29 |
| 3 P + N + ⏚ | 0·750 | 20·5 to 32 |

**LV 125 A** (p. 182)

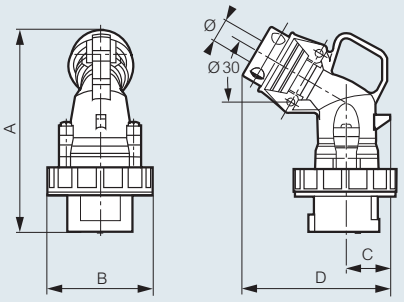



| | Weight (kg) | Ø Clamping and grip (mm) |
|---|---|---|
| **LV 125 A** | | |
| 3 P + ⏚ | 1·54 | 24 to 48 |
| 3 P + N + ⏚ | 1·7 | 28 to 48 |

## ■ Dimensions (continued)

### Angled plugs IP 66/67-55

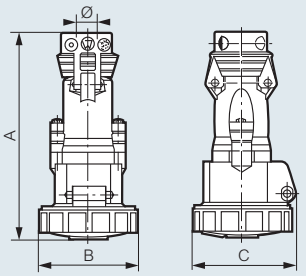
**LV 16/32 A** (p. 181-182)



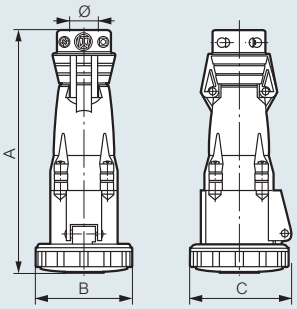

| | Weight (kg) | Dimensions (mm) A | B | C | D | Ø Clamping and grip (mm) |
|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | |
| 2 P + ⏚ | 0·165 | 136 | 72·5 | 29·5 | 100 | 8 to 15 |
| 3 P + ⏚ | 0·195 | 141 | 81 | 33·5 | 105 | 8 to 15 |
| 3 P + N + ⏚ | 0·220 | 150 | 86·5 | 37·5 | 114 | 10 to 18 |
| **LV 32 A** | | | | | | |
| 2 P + ⏚ | 0·280 | 161 | 94·5 | 39·5 | 116 | 10 to 18 |
| 3 P + ⏚ | 0·280 | 161 | 94·5 | 39·5 | 116 | 12 to 22 |
| 3 P + N + ⏚ | 0·325 | 167 | 101 | 44·5 | 122 | 12 to 22 |

### Mobile sockets IP 66/67-55

**LV 16/32 A** (p. 181-182)

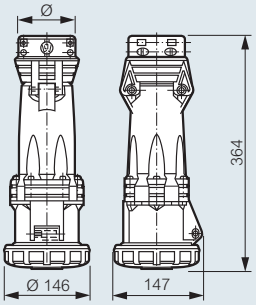



**LV 63 A**[1] (p. 182)




| | Material | Weight (kg) | Dimensions (mm) A | B | C | Ø Clamping and grip (mm) |
|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | |
| 2 P + ⏚ | Plastic | 0·180 | 150 | 72·5 | 75·5 | 8 to 15 |
| 3 P + ⏚ | Plastic | 0·215 | 154 | 81 | 86 | 8 to 15 |
| 3 P + N + ⏚ | Plastic | 0·275 | 189 | 86·5 | 89 | 10 to 18 |
| **LV 32 A** | | | | | | |
| 2 P + ⏚ | Plastic | 0·320 | 179 | 94·5 | 99 | 10 to 18 |
| 3 P + ⏚ | Plastic | 0·320 | 179 | 94·5 | 99 | 12 to 22 |
| 3 P + N + ⏚ | Plastic | 0·375 | 185 | 101 | 106 | 12 to 22 |
| **LV 63 A** | | | | | | |
| 3 P + ⏚ | Plastic | 0·850 | 278 | 113·5 | 119 | 18·5 to 29 |
| 3 P + N + ⏚ | Plastic | 0·910 | 278 | 113·5 | 119 | 20·5 to 32 |

**LV 125 A**[1] (p. 182)




| | Weight (kg) | Ø Clamping and grip (mm) |
|---|---|---|
| **LV 125 A** | | |
| 3 P + ⏚ | 1·8 | 24 to 48 |
| 3 P + N + ⏚ | 2·0 | 28 to 48 |

(1) Wiring diagram for 63 A and 125 A shown on p. 185

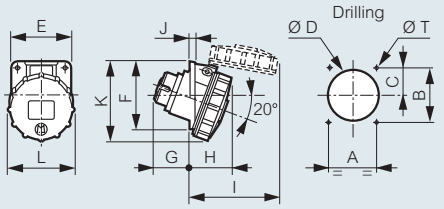
# Hypra® IP 66/67-55 - LV 16/32/63/125 A

**plastic plugs and sockets (continued)**

## ■ Dimensions (continued)

**Panel mounting sockets IP 66/67-55**

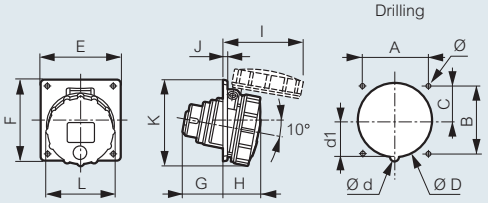
**LV 16 A** (p. 181)




| | Weight (kg) | Drilling (mm) A | B | C | ØD | ØT | Dimensions (mm) E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | | | | |
| **2 P + ⏚** | 0·140 | 52 | 60 | 33 | 55 | 4·2 | 64 | 72 | 40 | 45 | 91 | 5·5 | 87 | 72·5 |
| **3 P + ⏚** | 0·165 | 60 | 70 | 39 | 63·5 | 5·2 | 74 | 84 | 41 | 48 | 102 | 5·5 | 96 | 81 |
| **3 P + N + ⏚** | 0·195 | 60 | 70 | 37 | 70·6 | 5·2 | 80 | 84 | 42 | 50 | 106 | 5·5 | 96 | 86·5 |

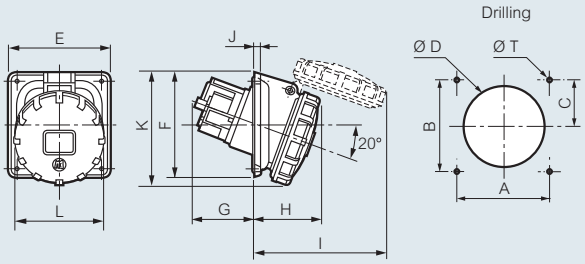
**LV 16/32 A with modular fixings** (p. 181-182)

Single fixing centres




| | Weight (kg) | Drilling (mm) A | B | C | Ø D | Ø d | d1 | Dimensions (mm) E | F | G | H | I | J | K | L | Ø |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | | | | | | |
| **2 P + ⏚** | 0·140 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 42 | 39 | 83 | 4·5 | 90 | 72·5 | 4·2 |
| **3 P + ⏚** | 0·165 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 43 | 41 | 98 | 4·5 | 93 | 81 | 4·2 |
| **3 P + N + ⏚** | 0·195 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 43 | 41 | 99 | 4·5 | 91 | 86·5 | 4·2 |
| **LV 32 A** | | | | | | | | | | | | | | | | |
| **2 P + ⏚** | 0·240 | 70 | 70 | 35 | 76·2 | – | – | 84 | 94 | 54 | 50 | 113 | 4·5 | 101 | 94·5 | 4·2 |
| **3 P + ⏚** | 0·240 | 70 | 70 | 35 | 76·2 | – | – | 84 | 94 | 54 | 50 | 113 | 4·5 | 101 | 94·5 | 4·2 |
| **3 P + N + ⏚** | 0·270 | 70 | 70 | 35 | 76·2 | 8 | 36 | 84 | 94 | 54 | 51 | 120 | 4·5 | 103 | 101 | 4·2 |

**LV 63/125 A** (p. 182)

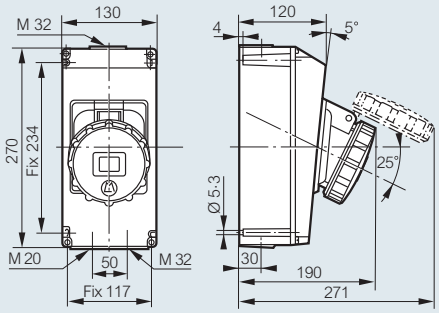



| | Weight (kg) | Drilling (mm) A | B | C | ØD | ØT | Dimensions (mm) E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 63 A** | | | | | | | | | | | | | | |
| **3 P + ⏚** | 0·71 | 77 | 85 | 42·5 | 92 | 6·5 | 106 | 106 | 98 | 79 | 158 | 6 | 127 | 113·5 |
| **3 P + N + ⏚** | 0·77 | 77 | 85 | 42·5 | 92 | 6·5 | 106 | 106 | 98 | 79 | 158 | 6 | 127 | 113·5 |
| **LV 125 A** | | | | | | | | | | | | | | |
| **3 P + ⏚** | 1·40 | 124 | 124 | 62 | 120 | 6·5 | 146 | 146 | 84 | 93 | 182 | 8 | 157 | 131 |
| **3 P + N + ⏚** | 1·55 | 124 | 124 | 62 | 120 | 6·5 | 146 | 146 | 84 | 93 | 182 | 8 | 157 | 131 |

## ■ Dimensions (continued)

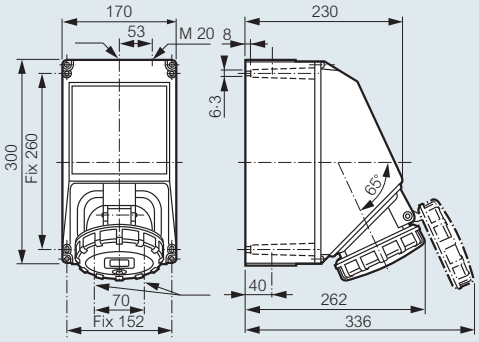
**Surface mounting sockets IP 66/67-55**

**LV 63 A** (p. 182)




| | Weight (kg) |
|---|---|
| **LV 63 A** | |
| **3 P + ⏚** | 1·65 |
| **3 P + N + ⏚** | 1·70 |

**LV 125 A** (p. 182)




| | Weight (kg) |
|---|---|
| **LV 125 A** | |
| **3 P + ⏚** | 3·5 |
| **3 P + N + ⏚** | 3·7 |

# Hypra® IP 66/67-55 - LV 16/32/63 A

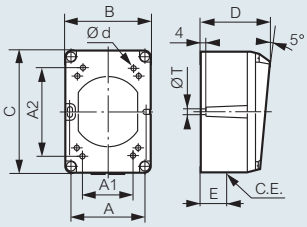
**surface mounting and through entry back boxes**

## ■ Dimensions

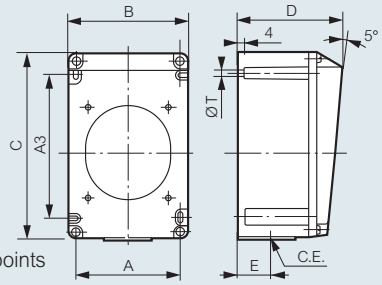
### Surface mounting boxes

Reversible boxes for surface mounting sockets
Boxes can be rotated to aid entry

**LV 16 A** (p. 181)




**LV 32 A** (p. 182)



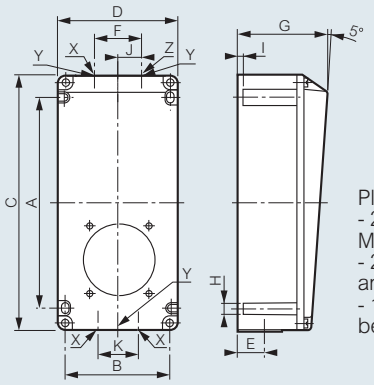

A1 and A2 : optional blind fixing points
Metal boxes are equipped with :
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

| Back boxes → Panel mounting sockets ↓ | Material | Weight (kg) | Fixings (mm) A1 | A2 | ød | A | A3 | ØT | Dimensions (mm) B | C | D | E | C.E. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·115 | 51 | 68 | 4·2 | 64 | – | 5·3 | 74 | 106 | 58 | 20 | M 20 |
| **3 P + ⏚** | Plastic | 0·160 | 68 | 68 | 4·2 | 85 | – | 5·3 | 96 | 122 | 60 | 22 | M 20 |
| **3 P + N + ⏚** | Plastic | 0·160 | 68 | 68 | 4·2 | 85 | – | 5·3 | 96 | 122 | 60 | 22 | M 20 |
| **LV 32 A** | | | | | | | | | | | | | |
| **2 P + ⏚ / 3 P + ⏚** | Plastic | 0·340 | – | – | – | 90 | 125 | 5·3 | 102 | 162 | 90 | 26 | M 25 |
| **3 P + N + ⏚** | | | | | | | | | | | | | |

### Through entry surface mounting boxes

Reversible boxes for surface mounting through entry sockets

**LV 16 to 63 A** (p. 181-182)




Plastic box equipped with :
- 2 internal linked earth terminals
Metal box equipped with :
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

| Back boxes → Panel mounting sockets ↓ | Material | Weight (kg) | Fixings (mm) A | B | H | Dimensions (mm) C | D | E | F | G | I | J | K | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **16 A** | | | | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·330 | 145 | 74 | 5·3 | 182 | 86 | 22 | 34 | 75 | 4 | – | – | – | M 20 | – |
| **3 P + ⏚** | Plastic | 0·330 | 145 | 74 | 5·3 | 182 | 86 | 22 | 34 | 75 | 4 | – | – | – | M 20 | – |
| **3 P + N + ⏚** | Plastic | 0·330 | 145 | 74 | 5·3 | 182 | 86 | 22 | 34 | 75 | 4 | – | – | – | M 20 | – |
| **32 A** | | | | | | | | | | | | | | | | |
| **2 P + ⏚** | Plastic | 0·670 | 234 | 117 | 5·3 | 270 | 130 | 30 | 50 | 110 | 4 | – | – | – | M 25 | – |
| **3 P + ⏚** | Plastic | 0·670 | 234 | 117 | 5·3 | 270 | 130 | 30 | 50 | 110 | 4 | – | – | – | M 25 | – |
| **3 P + N + ⏚** | Plastic | 0·670 | 234 | 117 | 5·3 | 270 | 130 | 30 | 50 | 110 | 4 | – | – | – | M 25 | – |
| **63 A** | | | | | | | | | | | | | | | | |
| **3 P + ⏚** | Plastic | 2·000 | 260 | 152 | 6·3 | 300 | 170 | 40 | – | 150 | 8 | 50 | 70 | M 32 | – | M 20 |
| **3 P + N + ⏚** | Plastic | 2·000 | 260 | 152 | 6·3 | 300 | 170 | 40 | – | 150 | 8 | 50 | 70 | M 32 | – | M 20 |

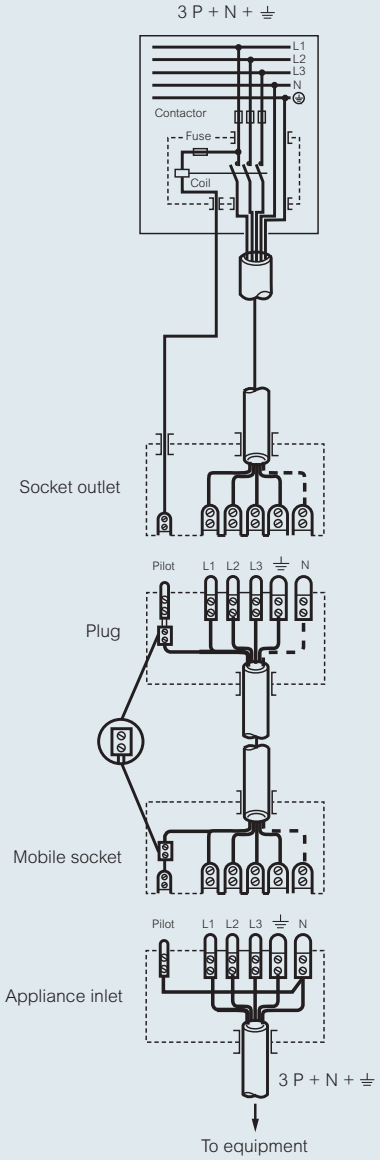
Note : Through entry boxes provide extra wiring space but not looping terminals

# Hypra® IP 66/67-55 - LV 63 and 125 A

**pilot pin connection**

## ■ Example of 63/125 A 3 P + ⏚ and 3 P + N + ⏚ pilot pin connection

The pilot pin enables the load to be removed prior to the separation of the phase pins, when the circuit is routed via a contactor




The pilot pin connection accepts 2·5-6 mm² flexible or up to 10 mm² rigid conductor. It is the small centre pin in the connection

## ■ Pilot cabling

| | 63 A | Conductors type |
|---|---|---|
| **Plugs and mobile sockets** | 2·5 to 6 | Flexible |
| **Surface and panel mounting sockets** | 2·5 to 10 | Rigid |

# P17 Tempra® plugs and sockets...

## simplicity, innovation and value

**P17 Tempra represents the best in value and is ideally suited for applications where power requirements can change from day-to-day, including building sites and other temporary locations.**

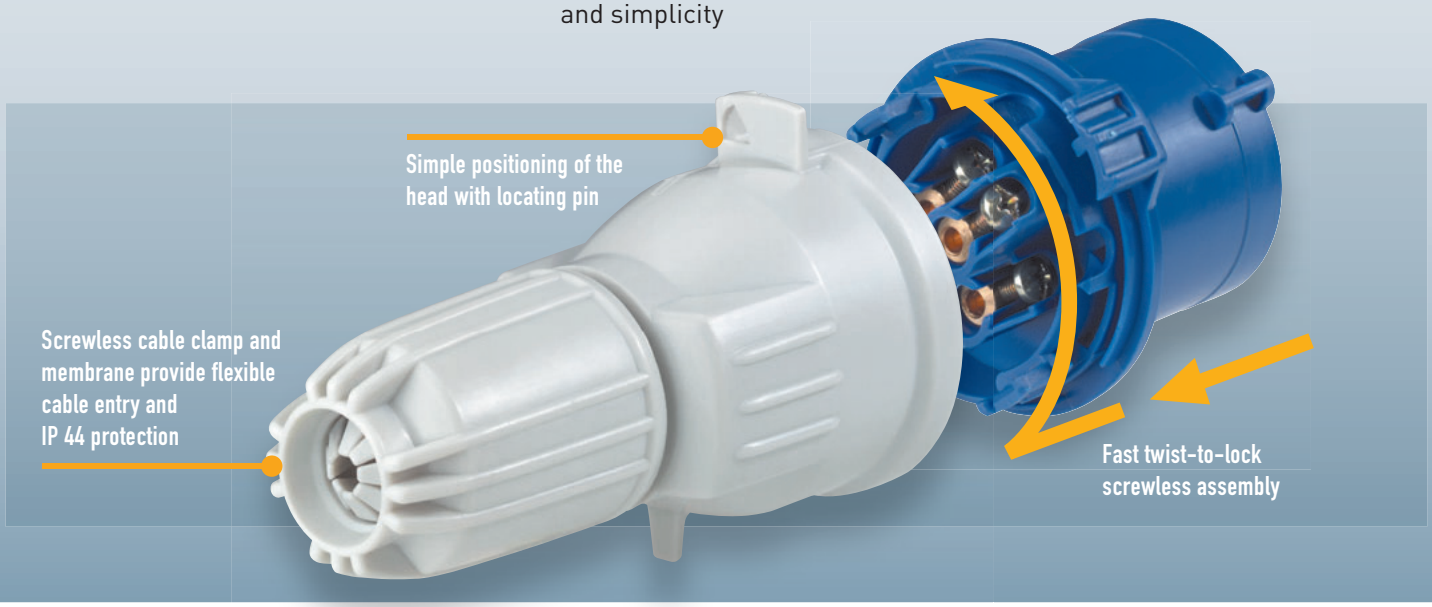
Packed with features which are designed to save assembly time, the range is available in IP44 and IP66/67 IK09 rated formats, ranging from plugs and mobile sockets to surface mounted sockets and appliance inlets.

### Innovative design

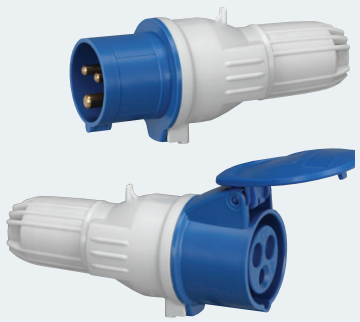
The two part plugs and mobile sockets feature a simple twist-lock action that reduces assembly time by incorporating a membrane gland entry with screwless cable clamp.

**FEATURES:**

- **Products supplied in the open position** - ready to assemble
- **Single orientation of connection screws** - for rapid assembly
- **Automatic sealing of cable entry (mobile products)** - instant IP44 protection
- **Screwless cable clamp and membrane** - flexible cable entry and IP44 protection
- **Snap fitting covers on panel mounting products** - for speed and simplicity



## P17 TEMPRA PLUGS AND SOCKETS – options for every application



### Plugs and mobile sockets

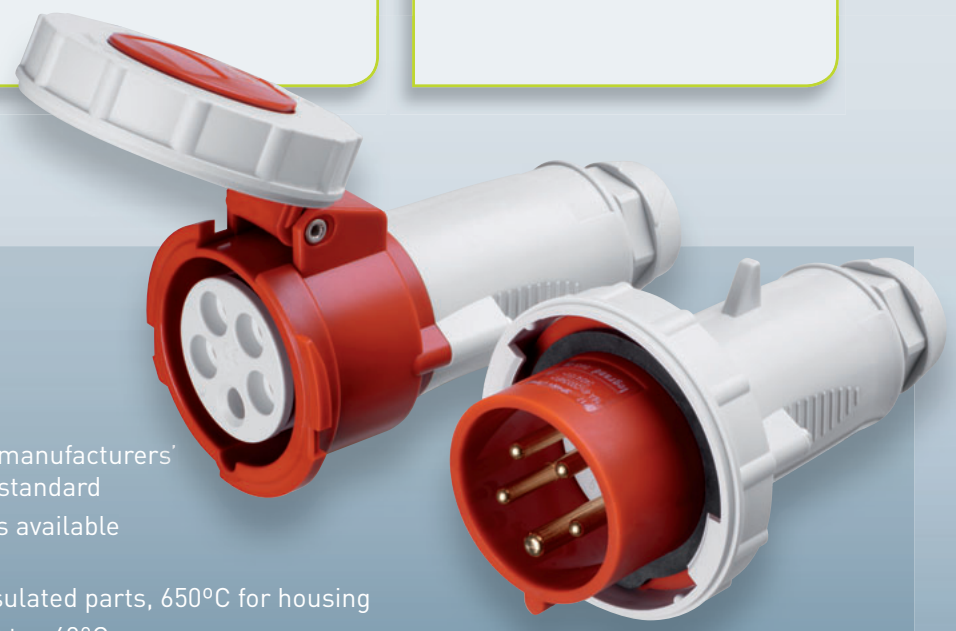
CURRENT RATING – 16A, 32A, 63A
VOLTAGES – 110V, 240V, 400V
PIN CONFIG – 2P+E, 3P+E, 3P+N+E
IP RATINGS – IP44, IP66/67

### Socket outlets

CURRENT RATING – 16A, 32A, 63A
VOLTAGES – 110V, 240V, 400V
PIN CONFIG – 2P+E, 3P+E, 3P+N+E
IP RATINGS – IP44, IP66/67

### Appliance inlets

CURRENT RATING – 16A, 32A, 63A
VOLTAGES – 110V, 240V, 400V
PIN CONFIG – 2P+E, 3P+E, 3P+N+E
IP RATING – IP44



## TECHNICAL DATA

**APPROVALS:** BS EN 60309-1
BS EN 60309-2
BS EN 60529 (IP)
BS EN 62262 (IK)

Products are interchangeable with other manufacturers' products which meet the BS EN 60309-2 standard

**PROTECTION:** IP44 and IP66/67 ranges available
IK09

**SELF EXTINGUISHING:** 850°C for insulated parts, 650°C for housing

**OPERATING TEMPERATURE:** -25°C to +40°C

# P 17 Tempra® plugs and sockets IP 44 and IP 66/67 - LV 16/32/63 A

selection chart

## IP 44 - LV 16/32 A

**Conform to : BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2**
**IK 08/IK 09**
Self-extinguishing :
850 °C for insulated parts
(650 °C for housing and cover)
Temp. rating : –25 °C to +40 °C

*Technical information and dimensions (p. 190-191)*

| | | | Straight plugs | Mobile sockets | Appliance inlets(2) | Surface mounting sockets(1) | Surface mounting sockets inclined | Panel mounting sockets | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Inclined modular(1) | Straight small flange |
| LV | | | | | | | | | |
| 100 to 130 V 50/60 Hz | 16 A | 2 P + ⏚ | 0574 31 | 0575 11 | 0575 81 | 0553 50 | 0555 50 | 0576 10 | 0573 51 |
| | 32 A | 2 P + ⏚ | 0581 21 | 0582 01 | – | – | – | 0576 08 | – |
| 200 to 250 V 50/60 Hz | 16 A | 2 P + ⏚ | 0574 34 | 0575 14 | 0575 84 | 0553 53 | 0555 53 | 0576 11 | 0573 54 |
| | 32 A | 2 P + ⏚ | 0581 34 | 0582 14 | 0582 84 | 0553 73 | 0555 73 | 0576 12 | 0580 54 |
| 380 to 415 V 50/60 Hz | 16 A | 3 P + ⏚ | 0574 38 | 0575 18 | 0575 88 | 0553 57 | 0555 57 | 0576 17 | 0573 58 |
| | | 3 P + N + ⏚ | 0574 39 | 0575 19 | 0575 89 | 0553 58 | 0555 58 | 0576 23 | 0573 59 |
| | 32 A | 3 P + ⏚ | 0581 38 | 0582 18 | – | – | – | 0576 18 | – |
| | | 3 P + N + ⏚ | 0581 39 | 0582 19 | 0582 89 | 0553 78 | 0555 78 | 0576 24 | 0580 59 |

## IP 66/67 - LV 16/32/63 A

**Conform to : BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2**
**IK 09**
Self-extinguishing :
850 °C for insulated parts
(650 °C for housing and cover)
Temp. rating : –25 °C to +40 °C
63 A units have a pilot pin

*Technical information and dimensions (p. 193)*

| | | | Straight plugs | Mobile sockets | Surface mounting sockets |
|---|---|---|---|---|---|
| LV | | | | | |
| 200 to 250 V 50/60 Hz | 16 A | 2 P + ⏚ | 0563 03 | 0562 03 | 0553 03 |
| | 32 A | 2 P + ⏚ | 0563 23 | 0562 23 | 0553 23 |
| | 63 A | 2 P + ⏚ | 0587 00 | 0587 10 | 0587 40 |
| 380 to 415 V 50/60 Hz | 16 A | 3 P + ⏚ | 0563 07 | 0562 07 | 0553 07 |
| | | 3 P + N + ⏚ | 0563 08 | 0562 08 | 0553 08 |
| | 32 A | 3 P + ⏚ | 0563 27 | 0562 27 | 0553 27 |
| | | 3 P + N + ⏚ | 0563 28 | 0562 28 | 0553 28 |
| | 63 A | 3 P + ⏚ | 0587 04 | 0587 14 | 0587 44 |
| | | 3 P + N + ⏚ | 0587 05 | 0587 15 | 0587 45 |

## Adaptor

**Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2**
Self-extinguishing : 850 °C
Temp. rating : –15 °C to +40 °C

*Dimensions (p. 190)*

**16 A – 230 V**

| | Pack | Cat. No. |
|---|---|---|
| **IEC 2 P + ⏚ plug – 13 A 2 P + ⏚ B.S. socket** | 10 | 0521 01 |

**Modular sockets have 70 x 70 mm fixing centres across 16 A and 32 A range**

**see p. 189**

**For 125 A rated please see Hypra p. 182**
**For voltages/arrangements not listed in this table, please contact us on +44 (0) 845 605 4333**

(1) 70 x 70 mm fixing centres (modular) (2) Appliance inlet covers, see p. 174
For pack quantities, see p. 189 and 192

# P 17 Tempra® IP 44 - LV 16 and 32 A
## plastic plugs and sockets

0574 34

0575 14

0575 84

0553 53

0555 53

0576 11

0573 54

*Technical information and dimensions (p. 190-191)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2
IP 44
IK 08 (surface mounting sockets)
IK 09 (straight plugs, mobile sockets, panel mounting sockets and appliance inlets)
Self-extinguishing : 850 °C for insulated parts (650 °C for housing and cover)
Temp. rating : –25 °C to +40 °C

### Straight plugs 16 and 32 A

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 1/5 | 0574 31 | 0581 21 | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 1 | 0574 34 | | 3 P + ⏚ |
| 1 | | 0581 34 | 3 P + N + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0574 38 | 0581 38 | 3 P + ⏚ |
| 1 | 0574 39 | 0581 39 | 3 P + N + ⏚ |

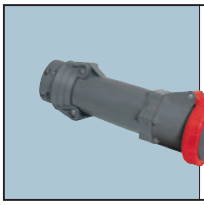
### Mobile sockets 16 and 32 A

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 1/5 | 0575 11 | 0582 01 | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 1 | 0575 14 | | 3 P + ⏚ |
| 1 | | 0582 14 | 3 P + N + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0575 18 | 0582 18 | 3 P + ⏚ |
| 1 | 0575 19 | 0582 19 | 3 P + N + ⏚ |

### Appliance inlets 16 and 32 A

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 5 | 0575 81 | | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 5 | 0575 84 | | 3 P + ⏚ |
| 5 | | 0582 84 | 3 P + N + ⏚ |
| | | | 380 to 415 V∿ |
| 5 | 0575 88 | | 3 P + ⏚ |
| 5 | 0575 89 | 0582 89 | 3 P + N + ⏚ |

**For appliance inlet covers** see p. 174



**For 125 A rated requirements see Hypra range**

**see p. 182**

### Surface mounting sockets 16 and 32 A

70 x 70 mm fixing centres

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 5 | 0553 50 | | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 10 | 0553 53 | NEW | 3 P + ⏚ |
| 5 | | 0553 73 | 3 P + N + ⏚ |
| | | | 380 to 415 V∿ |
| 10 | 0553 57 | | 3 P + ⏚ |
| 10 | 0553 58 | 0553 78 | 3 P + N + ⏚ |

### Surface mounting sockets inclined 16 and 32 A

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 1 | 0555 50 | | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 1 | 0555 53 | | 3 P + ⏚ |
| 1 | | 0555 73 | 3 P + N + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0555 57 | | 3 P + ⏚ |
| 1 | 0555 58 | 0555 78 | 3 P + N + ⏚ |

### Panel mounting sockets 16 and 32 A inclined modular

70 x 70 mm fixing centres
Can be fixed on pre-drilled plates of P 17 combined units (see p. 200)

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 5/1 | 0576 10 | 0576 08 | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 10 | 0576 11 | | 3 P + ⏚ |
| 10 | | 0576 12 | 3 P + N + ⏚ |
| | | | 380 to 415 V∿ |
| 10 | 0576 17 | 0576 18 | 3 P + ⏚ |
| 10 | 0576 23 | 0576 24 | 3 P + N + ⏚ |

### Panel mounting sockets 16 and 32 A straight small flange

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 5 | 0573 51 | | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 5 | 0573 54 | | 3 P + ⏚ |
| 5 | | 0580 54 | 3 P + N + ⏚ |
| | | | 380 to 415 V∿ |
| 5 | 0573 58 | NEW | 3 P + ⏚ |
| 5 | 0573 59 | 0580 59 | 3 P + N + ⏚ |

# P 17 Tempra® IP 44 - LV 16 and 32 A
**plastic plugs and sockets**

## ■ Technical information

IP 44 conforms to BS EN 60529 and IEC 60529
IK 08/IK 09 conforms to BS EN 62262 and IEC 62262

**LV max. terminal capacity** 16 A - 1 x 2·5 mm² flexible cable
32 A - 1 x 6 mm² flexible cable

**Straight plugs, mobile sockets and surface mounting sockets inclined**
Product supplied in open position
Philips No. 2 connection screws (cross-head slotted zinc-plated steel)
Single orientation of connection screws

**Mobile sockets only**
Screwless product closing by quarter turn
Integral cable gland with fixing claw
Automatic sealing on cable entry
Cable fixing by simple cable gland clamping
Captive cable gland
Double thread for rapid clamping of cable gland
Number of openings/closings tested : 20

**Surface mounting sockets inclined only**
Product closing by simple snapfitting of cover onto base or box
Surface mounting base without tapping : 0555 50/53/57/58 - 0555 73/78
Base with closable entry ISO 20/25 on the back
Cover with closable entry ISO 20/25 by the top

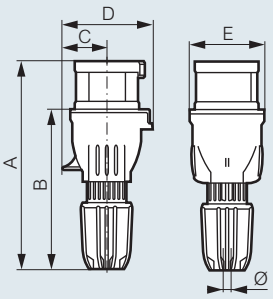
## ■ Connection capacity

| Type | Current | Conductors size (mm≤) | Conductors type |
|---|---|---|---|
| Straight plugs and mobile sockets | LV 16 A | 1 to 2·5 | Flexible |
| | LV 32 A | 2·5 to 6 | Flexible |
| Panel appliance inlets | LV 16 A | 1 to 2·5 | Rigid |
| | LV 32 A | 2·5 to 6 | Rigid |
| Surface and panel mounting sockets | LV 16 A | 1·5 to 4 | Rigid |
| | LV 32 A | 2·5 to 10 | Rigid |

## ■ Dimensions

### Straight plugs IP 44

**LV 16/32 A**
Design with twist clamp and membrane gland
Screwless body assembly (p. 189)

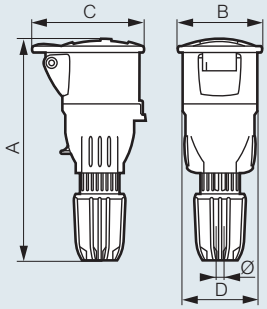



| | Weight (kg) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Ø clamping and grip (mm) |
|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | |
| 2 P+ ⏚ | 0·122 | 143 to 159 | 106 to 122 | 30 | 65 | 56 | 8 to 14 |
| 3 P+ ⏚ | 0·150 | 143 to 159 | 106 to 122 | 34 | 69 | 56 | 8 to 14 |
| 3 P+N+ ⏚ | 0·177 | 152 to 168 | 115 to 131 | 38 | 78 | 65 | 10 to 18 |
| **LV 32 A** | | | | | | | |
| 2 P+ ⏚ | 0·217 | 161 to 177 | 115 to 131 | 39 | 79 | 65 | 10 to 18 |
| 3 P+ ⏚ | 0·234 | 161 to 177 | 115 to 131 | 39 | 79 | 65 | 12 to 20 |
| 3 P+N+ ⏚ | 0·276 | 167 to 181 | 121 to 135 | 45 | 88 | 72 | 14 to 21 |

## ■ Dimensions (continued)

### Mobile sockets IP 44

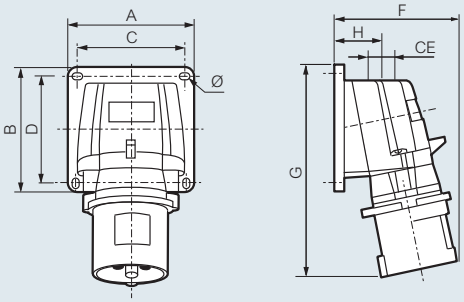
**LV 16/32 A**
Design with twist clamp and membrane gland
Screwless body assembly (p. 189)




| | Weight (kg) | A (mm) | B (mm) | C (mm) | D (mm) | Ø clamping and grip (mm) |
|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | |
| 2 P+ ⏚ | 0·150 | 153 to 169 | 55 | 78 | 56 | 8 to 14 |
| 3 P+ ⏚ | 0·179 | 153 to 169 | 62 | 85 | 56 | 8 to 14 |
| 3 P+N+ ⏚ | 0·212 | 164 to 180 | 70 | 94 | 65 | 10 to 18 |
| **LV 32 A** | | | | | | |
| 2 P+ ⏚ | 0·240 | 174 to 190 | 71 | 98 | 65 | 10 to 18 |
| 3 P+ ⏚ | 0·265 | 174 to 190 | 71 | 98 | 65 | 12 to 20 |
| 3 P+N+ ⏚ | 0·305 | 177 to 191 | 77 | 101 | 72 | 14 to 21 |

### Appliance inlets IP 44

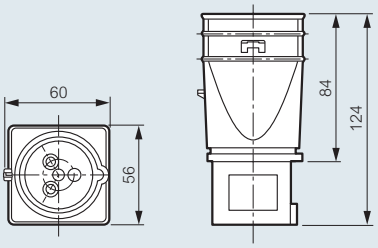
**LV 16/32 A** (p. 189)




| | Weight (kg) | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | CE (mm) | Ø clamping and grip (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | |
| 2 P+ ⏚ | 0·168 | 84 | 84 | 72 | 72 | 77 | 126 | 34 | M 20 | 4·3 |
| 3 P+ ⏚ | 0·232 | 84 | 84 | 72 | 72 | 84 | 134 | 34 | M 20 | 4·3 |
| 3 P+N+ ⏚ | 0·256 | 84 | 84 | 72 | 72 | 91 | 141 | 34 | M 20 | 4·3 |
| **LV 32 A** | | | | | | | | | | |
| 3 P+N+ ⏚ | 0·364 | 110 | 110 | 98 | 98 | 102 | 168 | 39 | M 25 | 5·3 |

### Adaptor from IEC to BS (p. 188)

Cat. No. 0521 01
16 A 2 P + ⏚ 230 V plug to 13 A 3 pin BS socket

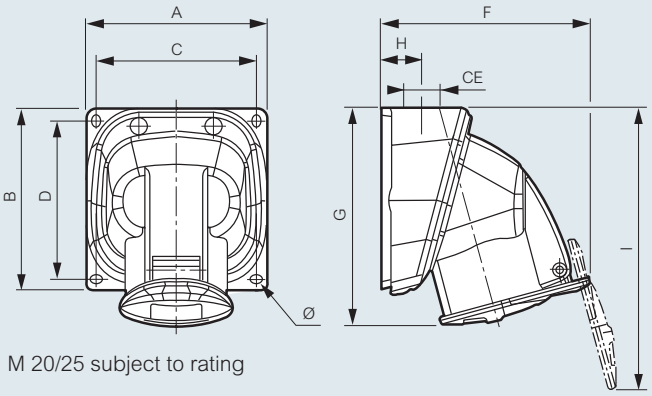


# P 17 Tempra® IP 44 - LV 16 and 32 A
plastic plugs and sockets (continued)

## ■ Dimensions (continued)

### Surface mounting sockets IP 44

**LV 16/32 A** (p. 189)

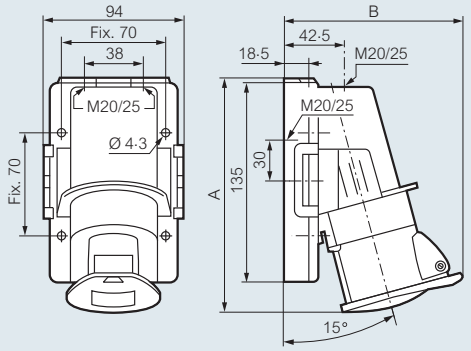



M 20/25 subject to rating

| | Weight (kg) | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | CE (mm) | Ø (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | |
| 2P+⏚ | 0·185 | 84 | 84 | 73 | 72 | 103 | 103·5 | 20 | 134 | M 20 | 4·3 |
| 3P+⏚ | 0·244 | 100 | 100 | 88 | 87 | 115 | 120 | 24 | 156 | M 20 | 4·3 |
| 3P+N+⏚ | 0·269 | 100 | 100 | 88 | 87 | 118·5 | 121 | 24 | 162 | M 20 | 4·3 |
| **LV 32 A** | | | | | | | | | | | |
| 3P+N+⏚ | 0·397 | 110 | 110 | 98 | 97 | 137 | 162·5 | 30 | 178 | M 25 | 5·3 |

### Surface mounting sockets inclined IP 44

**LV 16/32 A** (p. 189)



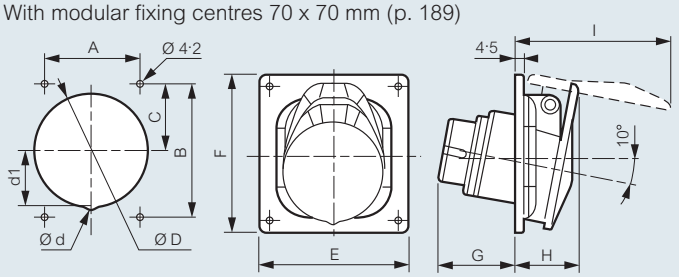

| | A (mm) | B (mm) |
|---|---|---|
| **LV 16 A** | | |
| 2P+⏚ | 158 | 121 |
| 3P+⏚ | 158 | 123 |
| 3P+N+⏚ | 171 | 130 |
| **LV 32 A** | | |
| 3P+N+⏚ | 192 | 140 |

M 20/25 dual knockout entry

## ■ Dimensions (continued)

### Panel mounting sockets IP 44

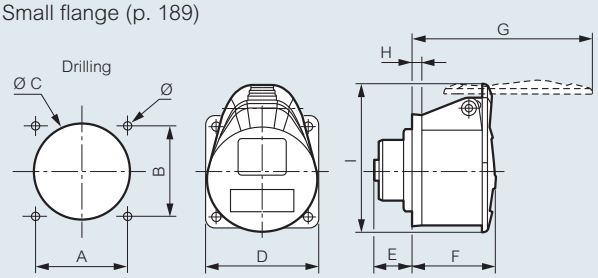
**LV 16/32 A**
With modular fixing centres 70 x 70 mm (p. 189)




| | Weight (kg) | A (mm) | B (mm) | C (mm) | Ø D (mm) | Ø d (mm) | d1 (mm) | E (mm) | F (mm) | G (mm) | H (mm) | I (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | | |
| 2P+⏚ | 0·110 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 42 | 33 | 83·5 |
| 3P+⏚ | 0·140 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 43 | 34·5 | 91·3 |
| 3P+N+⏚ | 0·165 | 70 | 70 | 35 | 76·2 | – | – | 84 | 84 | 43 | 36·5 | 100 |
| **LV 32 A** | | | | | | | | | | | | |
| 2P+⏚<br>3P+⏚ | 0·220 | 70 | 70 | 35 | 76·2 | – | – | 84 | 94 | 54 | 44 | 112 |
| 3P+N+⏚ | 0·255 | 70 | 70 | 35 | 76·2 | 8 | 36 | 84 | 94 | 54 | 45 | 120 |

### Straight panel mounting sockets IP 44

**LV 16/32 A**
Small flange (p. 189)




| | Weight (kg) | A (mm) | B (mm) | Ø C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | I (mm) | Ø (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | |
| 2P+⏚ | 0·105 | 47 | 47 | 47 | 58 | 22·4 | 50 | 98·5 | 5·5 | 78·5 | 5·5 |
| 3P+⏚ | 0·127 | 52 | 52 | 55 | 65 | 22·4 | 50·5 | 104 | 5·5 | 85·6 | 5·5 |
| 3P+N+⏚ | 0·148 | 52 | 52 | 55 | 70 | 22·4 | 51 | 113 | 5·5 | 93·5 | 5·5 |
| **LV 32 A** | | | | | | | | | | | |
| 3P+N+⏚ | 0·246 | 60 | 60 | 63·5 | 77 | 31·4 | 61·7 | 134 | 5·5 | 104·5 | 5·5 |

# P 17 Tempra® IP 66/67 - LV 16/32/63 A
## plastic plugs and sockets

0563 07

0553 07

0587 14

*Technical information and dimensions (p. 193)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2
IK 09
Self-extinguishing : 850 °C for insulated parts (650 °C for housing and cover)
Temp. rating : –25 °C to +40 °C
63 A units have a pilot pin

### Straight plugs 16/32/63 A

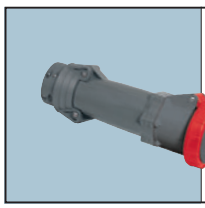
| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 200 to 250 V∿ |
| 5 | 0563 03 | 0563 23 | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 5 | 0563 07 | 0563 27 | 3 P + ⏚ |
| 5 | 0563 08 | 0563 28 | 3 P + N + ⏚ |
| | 63 A | | 200 to 250 V∿ |
| 1 | 0587 00 | | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0587 04 | | 3 P + ⏚ |
| 1 | 0587 05 | | 3 P + N + ⏚ |

### Mobile sockets 16/32/63 A

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 200 to 250 V∿ |
| 5 | 0562 03 | 0562 23 | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 5 | 0562 07 | 0562 27 | 3 P + ⏚ |
| 5 | 0562 08 | 0562 28 | 3 P + N + ⏚ |
| | 63 A | | 200 to 250 V∿ |
| 1 | 0587 10 | | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0587 14 | | 3 P + ⏚ |
| 1 | 0587 15 | | 3 P + N + ⏚ |

### Surface mounting sockets 16/32/63 A

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 200 to 250 V∿ |
| 5 | 0553 03 | 0553 23 | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 5 | 0553 07 | 0553 27 | 3 P + ⏚ |
| 5 | 0553 08 | 0553 28 | 3 P + N + ⏚ |
| | 63 A | | 200 to 250 V∿ |
| 1 | 0587 40 | | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0587 44 | | 3 P + ⏚ |
| 1 | 0587 45 | | 3 P + N + ⏚ |



**For 125 A rated requirements see Hypra range**

**see p. 182**

P 17 Tempra® IP 66/67 - LV 16/32/63 A
plastic plugs and sockets

## Technical information

IP 66/67 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262 and IEC 62262

**Straight plugs and mobile sockets**
Connection via captive screws (16 and 32 A)
Cable gland with clamping claw - clamping accesible from outside, enabling quick checking that clamping is correct
Fast captive zinc-plated steel screws to close the product

**Surface mounting sockets**
Connection via captive screws (16 and 32 A)
Philips screws (flat or Philips screwdriver)
Angle : 75°
Removable support of active parts

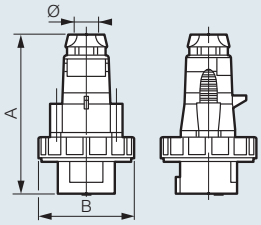
## Connection capacity

| Type | Current | Conductors size (mm≤) | Conductors type |
|---|---|---|---|
| Straight plugs and mobile sockets | LV 16 A | 1 to 2·5 | Flexible |
| | LV 32 A | 2·5 to 6 | Flexible |
| | LV 63 A | 6 to 16 | Flexible |
| Surface mounting sockets | LV 16 A | 1·5 to 4 | Rigid |
| | LV 32 A | 2·5 to 10 | Rigid |
| | LV 63 A | 6 to 25 | Rigid |

## Dimensions

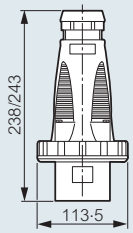
### Straight plugs IP 66/67

**LV 16/32 A** (opposite)




| | Weight (kg) | A (mm) | B (mm) | Ø clamping and grip (mm) |
|---|---|---|---|---|
| **LV 16 A** | | | | |
| 2 P + ⏚ | 0·165 | 122 | 72·5 | 8 to 14 |
| 3 P + ⏚ | 0·175 | 126 | 81 | 8 to 14 |
| 3 P + N + ⏚ | 0·218 | 142 | 86·5 | 10 to 17·5 |
| **LV 32 A** | | | | |
| 2 P + ⏚ | 0·255 | 152 | 94·5 | 10 to 17·5 |
| 3 P + ⏚ | 0·276 | 152 | 94·5 | 12 to 21·5 |
| 3 P + N + ⏚ | 0·325 | 158 | 101 | 12 to 21·5 |

**LV 63 A** (opposite)

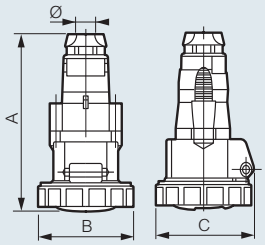



| | Weight (kg) |
|---|---|
| 3 P + ⏚ | 0·57 |
| 3 P + N + ⏚ | 0·64 |

| | Ø clamping and grip (mm) |
|---|---|
| 3 P + ⏚ | 19·3 to 28·5 |
| 3 P + N + ⏚ | 21·3 to 31·3 |

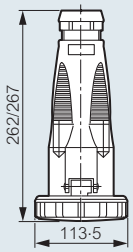
### Mobile sockets IP 66/67

**LV 16/32 A** (opposite)




| | Weight (kg) | A (mm) | B (mm) | C (mm) | Ø clamping and grip (mm) |
|---|---|---|---|---|---|
| **LV 16 A** | | | | | |
| 2 P + ⏚ | 0·180 | 139 | 72·5 | 78·5 | 8 to 14 |
| 3 P + ⏚ | 0·215 | 144 | 81 | 89·5 | 8 to 14 |
| 3 P + N + ⏚ | 0·275 | 160 | 86·5 | 92 | 10 to 17·5 |
| **LV 32 A** | | | | | |
| 2 P + ⏚ | 0·320 | 171 | 94·5 | 103 | 10 to 17·5 |
| 3 P + ⏚ | 0·320 | 171 | 94·5 | 103 | 12 to 21·5 |
| 3 P + N + ⏚ | 0·387 | 177 | 101 | 109 | 12 to 21·5 |

**LV 63 A** (opposite)




| | Weight (kg) |
|---|---|
| 3 P + ⏚ | 0·78 |
| 3 P + N + ⏚ | 0·85 |

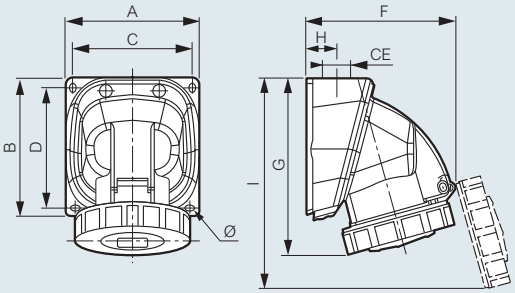
| | Ø clamping and grip (mm) |
|---|---|
| 3 P + ⏚ | 19·3 to 28·5 |
| 3 P + N + ⏚ | 21·3 to 31·3 |

# P 17 Tempra® IP 66/67 - LV 16/32/63 A
plastic plugs and sockets (continued)

## ■ Dimensions (continued)

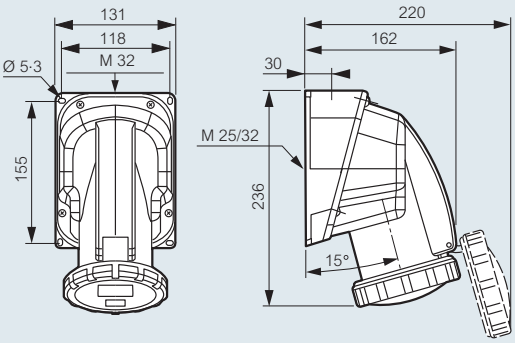
**Surface mounting sockets IP 66/67**

**LV 16/32 A** (p. 192)




| | Weight (kg) | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | H (mm) | I (mm) | CE (mm) | Ø (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 16 A** | | | | | | | | | | | |
| **2 P + ⏚** | 0·230 | 84 | 84 | 73 | 72 | 94 | 112 | 20 | 130 | M 20 | 4·3 |
| **3 P + ⏚** | 0·289 | 100 | 100 | 88 | 87 | 108 | 128 | 24 | 154 | M 20 | 4·3 |
| **3 P + N + ⏚** | 0·317 | 100 | 100 | 88 | 87 | 110 | 129 | 24 | 157 | M 20 | 4·3 |
| **LV 32 A** | | | | | | | | | | | |
| **2 P + ⏚** | 0·425 | 110 | 110 | 98 | 97 | 126 | 146 | 30 | 175 | M 25 | 5·3 |
| **3 P + ⏚** | 0·425 | 110 | 110 | 98 | 97 | 126 | 146 | 30 | 175 | M 25 | 5·3 |
| **3 P + N + ⏚** | 0·467 | 110 | 110 | 98 | 97 | 136 | 170·5 | 30 | 205 | M 25 | 5·3 |

**LV 63 A** (p. 192)

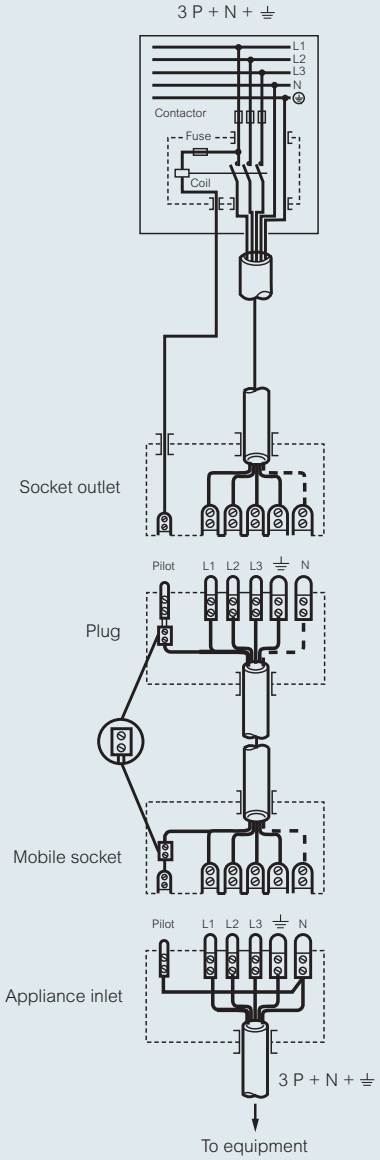



| | Weight (kg) |
|---|---|
| **3 P + ⏚** | 0·90 |
| **3 P + N + ⏚** | 0·95 |

# P 17 Tempra® IP 66/67 - LV 63 A
pilot pin connection

## ■ Example of 63 A 3 P + ⏚ and 3 P + N + ⏚ pilot pin connection

The pilot pin enables the load to be removed prior to the separation of the phase pins, when the circuit is routed via a contactor




The pilot pin connection accepts 2·5-6 mm² flexible or up to 10 mm² rigid conductor. It is the small centre pin in the connection

## ■ Pilot cabling

| | 63 A | Conductors type |
|---|---|---|
| **Plugs and mobile sockets** | 2.5 to 6 | Flexible |
| **Surface mounting sockets** | 2.5 to 10 | Rigid |

# Hypra® and P17® combination units...

## safe, secure connections

### Hypra®

**Tough and durable units which are available with Hypra Prisinter or panel mounting sockets.**

- **Lockable transparent window** - for security and instant monitoring of protection device status
- **Captive, stainless steel external screws** - for added durability
- **Off load connection and disconnection on Prisinter equipped versions** - providing additional safety for users and circuits alike
- **Choice of circuit protection** - DIN rail mounted MCB, RCBO and RCD protection options

Single socket units with switch

Single socket units with switch and MCB / RCD protection

Prisinter single socket units with RCBO protection

Lockable transparent window for security and instant monitoring of protection device status

Prisinter sockets offer a unique interlocked load break

**TECHNICAL DATA**

**APPROVALS:** BS EN 60309-1, BS EN 60309-2, BS EN 60529 (IP)
BS EN 62262 (IK)

**PROTECTION:** IP44, IP66/67-55 and IP66/67 ranges available
IK09

**SELF EXTINGUISHING:** 850°C for insulated parts, 650°C for housing

**OPERATING TEMPERATURE:** mechanical lock only -20°C to +100°C
with RCD -15°C to +40°C
with MCB -5°C to +40°C

# P17 Tempra®

**The units feature a unique plug-in design that enables the base to be wired independently of the cover, making installation both quicker and easier:**

1. **Fix the base on to the wall**
2. **Wire the protection device and the base socket connection independently of the cover**
3. **Close the combination unit and plug in**

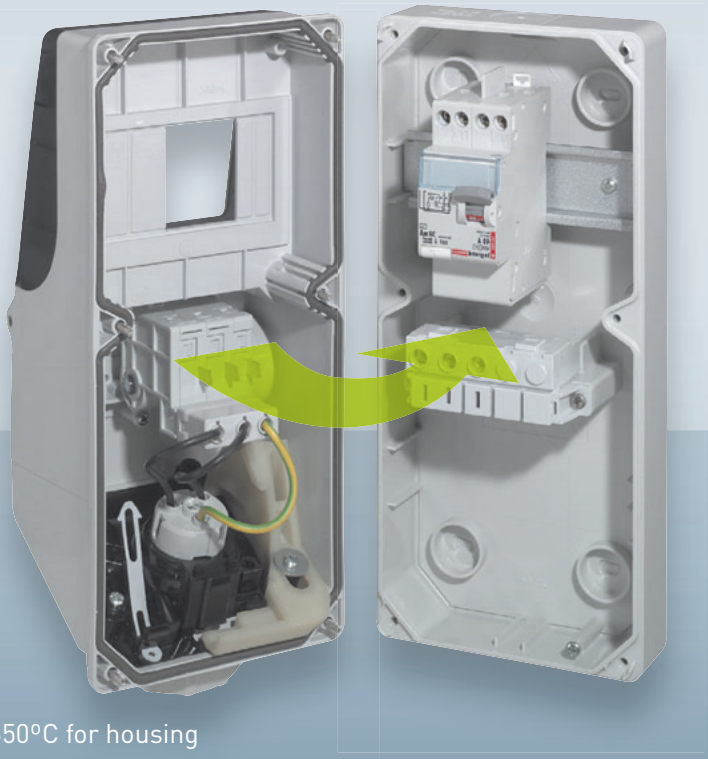
Interlocked switched sockets without protection

Interlocked switched sockets with DIN rail

Self assembly units

Double mechanical interlocking switch cannot be turned on unless a plug is inserted. Once switched on, the plug cannot then be removed until the switch is turned off

Units can be fitted with a variety of Legrand modular devices, including MCBs, RCDs, timers, contactors and indicators. Transparent window allows instant monitoring of protection device status



## TECHNICAL DATA

**APPROVALS:** BS EN 60309-1
BS EN 60309-2
BS EN 60529 (IP)
BS EN 62262 (IK)

**PROTECTION:** IP44, IP55 and IP66 ranges available
IK08

**SELF EXTINGUISHING:** 850°C for insulated parts, 650°C for housing

**OPERATING TEMPERATURE:** -20°C to +100°C without protection device
-15°C to +40°C with protection device

# Hypra® IP 44 combination units - LV 16/32/63 A
## plastic surface mounting

0592 03

0592 07

0592 83

0592 84

0592 24

*Technical information and dimensions (p. 198)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60439-1 and IEC 60439-1
IP 44 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262 and IEC 62262
Temp. rating : –15 °C to +40 °C[1]
RAL 7022

### Single socket units with switch

Double mechanical interlock

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ |
| 1 | 0592 00 | | 2 P + ⏚ |
| | | | 200 to 250 V∿ |
| 1 | 0592 03 | 0592 43 | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0592 09 | 0592 49 | 3 P + ⏚ |
| 1 | 0592 16 | 0592 56 | 3 P + N + ⏚ |
| | 63 A | | 380 to 415 V∿ |
| 1 | 0592 34 | | 3 P + ⏚ |
| 1 | 0592 35 | | 3 P + N + ⏚ |

### Single socket units protected by 30 mA RCBO

Transparent plastic hinged viewing window
Supplied complete with 16/32 A 30 mA RCBO
With 5 module DIN rail

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 200 to 250 V∿ with RCBO |
| 1 | 0592 07 | 0592 47 | 2 P + ⏚ |
| | | | 380 to 415 V∿ with RCBO |
| 1 | 0592 14 | | 3 P + ⏚ |
| 1 | 0592 19 | 0592 59 | 3 P + N + ⏚ |

### Single socket units with switch and protected by 30 mA RCBO

Transparent plastic hinged viewing window
Supplied complete with 16/32 A 30 mA RCBO
With 6 module DIN rail

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 200 to 250 V∿ with RCBO |
| 1 | 0596 01 | 0596 05 | 2 P + ⏚ |
| | | | 380 to 415 V∿ with RCBO |
| 1 | 0596 02 | 0596 07 | 3 P + ⏚ |
| 1 | 0596 03 | 0596 08 | 3 P + N + ⏚ |

### Single socket units with switch and protected by RCD

Transparent plastic hinged viewing window
Supplied complete with RCD
With 6 module DIN rail

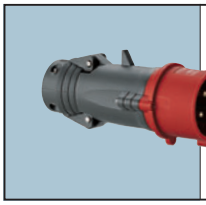
| Pack | Cat. Nos. 63 A | |
|---|---|---|
| | | 380 to 415 V∿ |
| 1 | 0592 83 | 3 P + ⏚ with MCB + RCD add-on module |
| 1 | 0592 84 | 3 P + N + ⏚ with RCD |

### Prisinter single socket units protected by 30 mA RCBO

Transparent plastic hinged viewing window
Cable glands are not supplied (ISO)
With 6 module DIN rail
**IP 44 plug inserted**
**IP 55 lid closed or connected to an IP 66/67-55 angled plug**

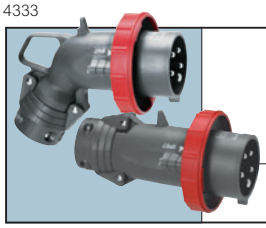
| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 200 to 250 V∿ |
| 1 | 0592 24 | | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0592 25 | 0592 28 | 3 P + ⏚ |
| 1 | 0592 26 | 0592 29 | 3 P + N + ⏚ |

(1) Units with RCBO and some MCB protection devices have temperature ratings of –5 °C to +40 °C
Switch only units and some MCBs have increased ratings - please contact us on +44 (0) 845 605 4333



**For Hypra IP 44 straight plugs**

**see p. 174**



**For Hypra IP 66/67-55 angled and straight plugs**

**see p. 180**

# Hypra® IP 66/67-55 combination units - LV 16/32/63/125 A
## plastic surface mounting

0592 65

0591 15

0596 61

*Technical information and dimensions (p. 199)*
*Conformity to International Standards (p. 204)*

Conform to BS EN 60439-1 and IEC 60439-1
IP 66/67-55 for 16 and 32 A and to BS EN 60529 and IEC 60529 for 63 and 125 A
IK 09 conforms to BS EN 62262 and IEC 62262
Temp. rating : –15 °C to +40 °C(1)

### Single socket units with switch

Double mechanical interlock

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 200 to 250 V∿ |
| 1 | 0592 60 | 0592 63 | 2 P + ⏚ |
| | | | 380 to 415 V∿ |
| 1 | 0592 61 | 0592 64 | 3 P + ⏚ |
| 1 | 0592 62 | 0592 65 | 3 P + N + ⏚ |
| | 63 A | | 380 to 415 V∿ |
| 1 | 0592 66 | | 3 P + ⏚ |
| 1 | 0592 67 | | 3 P + N + ⏚ |
| | 125 A | | 380 to 415 V∿ |
| 1 | 0591 14(2) | | 3 P + ⏚ |
| 1 | 0591 15(2) | | 3 P + N + ⏚ |

### Single socket units with ⊥ rail only, or complete with MCB 16/32 A

Transparent plastic hinged viewing window
Cable glands are not supplied (ISO)
With 6 module DIN rail

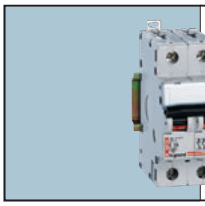
| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 100 to 130 V∿ ⊥ rail only |
| 1 | 0596 60 | | 2 P + ⏚ |
| | | | 200 to 250 V∿ with MCB |
| 1 | 0596 61 | | 2 P + ⏚ |
| | | | 380 to 415 V∿ with MCB |
| 1 | | 0596 67 | 3 P + ⏚ |
| 1 | | 0596 68 | 3 P + N + ⏚ |

### Single socket units with switch and protected by 30 mA RCBO or RCD

Transparent plastic hinged viewing window
Cable glands are not supplied (ISO)
With 6 module DIN rail

| Pack | Cat. Nos. 16 A | Cat. Nos. 32 A | |
|---|---|---|---|
| | | | 200 to 250 V∿ with RCBO |
| 1 | 0596 51 | 0596 55 | 2 P + ⏚ |
| | | | 380 to 415 V∿ with RCBO |
| 1 | 0596 52 | 0596 57 | 3 P + ⏚ |
| 1 | 0596 53 | 0596 58 | 3 P + N + ⏚ |
| | 63 A | | 380 to 415 V∿ with RCD |
| 1 | 0596 81 | | 3 P + N + ⏚ |

(1) Units with RCBO and some MCB protection devices have temperature ratings of –5 °C to +40 °C
Switch only units and some MCBs have increased ratings - contact us on +44 (0) 845 605 4333
(2) Interlocked using a Vistop switch, see p. 101



**For protective devices**

**see p. 79**

# Hypra® IP 44 combination units - LV 16/32/63 A

**plastic surface mounting**

## ■ Technical information

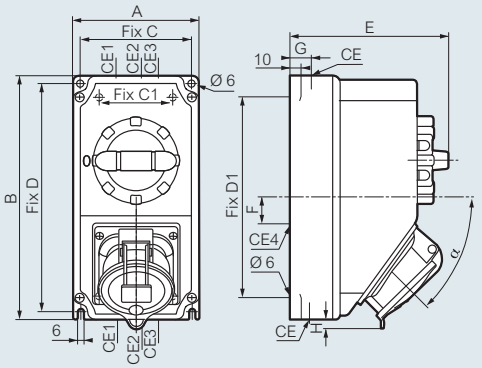
IP 44 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262 and IEC 62262
External screws in stainless steel - Nickel plated contacts
Icc 10 kA conforms to BS EN 60309-1 and IEC 60309-1
Self-extinguishing : 850 °C for insulated parts (650 °C for housing) according to BS EN 60695-1, BS EN 60695-2, IEC 60695-1 and IEC 60695-2
IK 09
RAL 7022

**Units with Prisinter :**

- IP 44 plug connected conforms to BS EN 60529 and IEC 60529
- IP 55 with cover closed or used with IP 66/67-55 plug
- Breaking capacity conforms to BS EN 60947-1, BS EN60947-3, IEC 60947-1 and IEC 60947-3 :

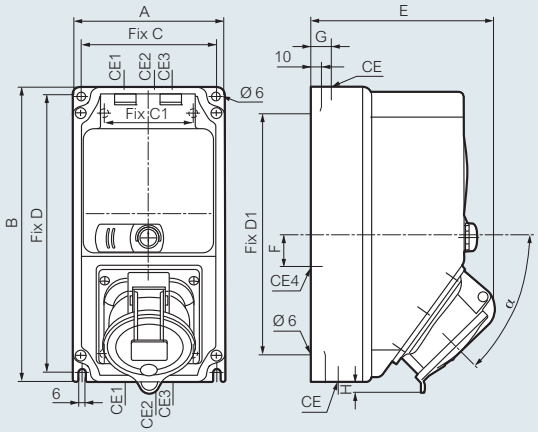
| | 16 A | 32 A | 63 A |
|---|---|---|---|
| **AC1** | 16 A - 400 V∿ | 32 A - 400 V∿ | 63 A - 400 V∿ |
| **AC3** | 8·4 kW | 16·8 kW | 33 kW |
| **AC23** | 8·4 kW | 16·8 kW | 33 kW |

## ■ Single socket units with switch (p. 196)



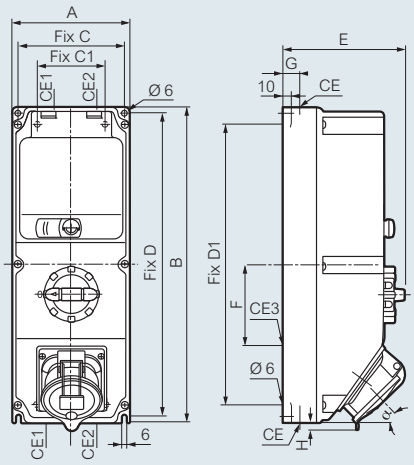

| | | Cat. Nos. 110 to 130 V∿ | Cat. Nos. 200 to 250 V∿ | Cat. Nos. 380 to 415 V∿ | A | B | C | D | C1 | D1 | E | F | G | H | α | Knock-out entries for cable gland CE1 | CE2 | CE3 | CE4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 A | 2P+⏚ | 0592 00 | 0592 03 | | 120 | 230 | 106 | 216 | 70 | 190 | 151 | 25 | 20 | 0 | 46° | M 20/25 | – | M 20/25 | Ø 29 |
| 16 A | 3P+⏚ | | | 0592 09 | | | | | | | | | | 0 | | | | | |
| 16 A | 3P+N+⏚ | | | 0592 16 | | | | | | | | | | 1·5 | | | | | |
| 32 A | 2P+⏚ | | 0592 43 | | | | | | | | | | | 9 | | | | | |
| 32 A | 3P+⏚ | | | 0592 49 | | | | | | | | | | 9 | | | | | |
| 32 A | 3P+N+⏚ | | | 0592 56 | | | | | | | | | | 10 | | | | | |
| 63 A | 3P+⏚ | | | 0592 34 | 170 | 320 | 156 | 306 | 100 | 270 | 204 | 65 | 28 | 21·5 | 56° | M 20/25 | M 25/32 | M 20 | Ø 38 |
| 63 A | 3P+N+⏚ | | | 0592 35 | | | | | | | | | | | | | | | |

## ■ Single socket units protected by 30 mA RCBO and Prisinter single socket units protected by 30 mA RCBO (p. 196)




| | | | Cat. Nos. 200 to 250 V∿ | Cat. Nos. 380 to 415 V∿ | A | B | C | D | C1 | D1 | E | F | G | H | α | Knock-out entries for cable gland CE1 | CE2 | CE3 | CE4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 A | | 2P+⏚ | 0592 07 | | 120 | 230 | 106 | 216 | 70 | 190 | 132 | 25 | 20 | 0 | 46° | M 20/25 | – | M 20/25 | Ø 29 |
| 16 A | | 3P+⏚ | | 0592 14 | | | | | | | 134 | | | 0 | | | | | |
| 16 A | | 3P+N+⏚ | | 0592 19 | | | | | | | 138 | | | 1·5 | | | | | |
| 32 A | | 2P+⏚ | 0592 47 | | | | | | | | 145 | | | 9 | | | | | |
| 32 A | | 3P+N+⏚ | | 0592 59 | | | | | | | 148 | | | 10 | | | | | |
| Prisinter | 16 A | 2P+⏚ | 0592 24 | | 170 | 320 | 156 | 306 | 100 | 270 | 195 | 65 | 28 | 0 | 56° | M 20/25 | M 25/32 | M 20 | Ø 38 |
| Prisinter | 16 A | 3P+⏚ | | 0592 25 | | | | | | | 195 | | | 0 | | | | | |
| Prisinter | 16 A | 3P+N+⏚ | | 0592 26 | | | | | | | 202 | | | 0 | | | | | |
| Prisinter | 32 A | 3P+⏚ | | 0592 28 | 170 | 320 | 156 | 306 | 100 | 270 | 206 | 65 | 28 | 0 | 56° | | | | |
| Prisinter | 32 A | 3P+N+⏚ | | 0592 29 | | | | | | | 214 | | | 0 | | | | | |

## ■ Single socket units with switch and protected by 30 mA RCBO or RCD (p. 196)




| | | Cat. Nos. 200 to 250 V∿ | Cat. Nos. 380 to 415 V∿ | A | B | C | D | C1 | D1 | E | F | G | H | α | Knock-out entries for cable gland CE1 | CE2 | CE3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Protected by 30 mA RCBO** | | | | | | | | | | | | | | | | | |
| 16 A | 2P+⏚ | 0596 01 | | 140 | 370 | 126 | 356 | 74 | 330 | 151 | 95 | 20 | 0 | 46° | M 20/25 | M 20/25 | Ø 29 |
| 16 A | 3P+⏚ | | 0596 02 | | | | | | | | | | 0 | | | | |
| 16 A | 3P+N+⏚ | | 0596 03 | | | | | | | | | | 1·5 | | | | |
| 32 A | 2P+⏚ | 0596 05 | | | | | | | | | | | 9 | | | | |
| 32 A | 3P+⏚ | | 0596 07 | | | | | | | | | | 9 | | | | |
| 32 A | 3P+N+⏚ | | 0596 08 | | | | | | | | | | 10 | | | | |
| **Protected by RCD** | | | | | | | | | | | | | | | | | |
| 63 A | 3P+⏚ | | 0596 83 | 160 | 470 | 146 | 456 | 90 | 420 | 204 | 125 | 28 | 20 | 56° | M 25/32 | M 20/25 | Ø 38 |
| 63 A | 3P+N+⏚ | | 0596 84 | | | | | | | | | | | | | | |

# Hypra® IP 66/67-55 combination units - LV 16/32/63/125 A

**plastic surface mounting**

## ■ Technical information

IP 67 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262 and IEC 62262
External screws in stainless steel
Icc 10 kA conforms to BS EN 60309-1 and IEC 60309-1
Self-extinguishing : 850 °C for insulated parts (650 °C for housing) according to BS EN 60695-1, BS EN 60695-2, IEC 60695-1 and IEC 60695-2

## ■ Connection and protection

### Connecting socket bases

Cross section of cables inside the unit according to the current used :
Socket 16 A : 2·5 mm²
Socket 32 A : 6 mm²
Socket 63 A : 16 mm²

### Types of protection and number of modules

Upstream, Hypra equipped or to-be-equipped units can integrate, according to catalogue numbers, modular protective devices of various kinds :
Legrand MCBs, RCBOs and RCDs

**NB :** according to the required use, it is essential to check that the protection against indirect contacts (residual current) and the protection against overloads and short circuits (Legrand circuit breakers) are both well covered

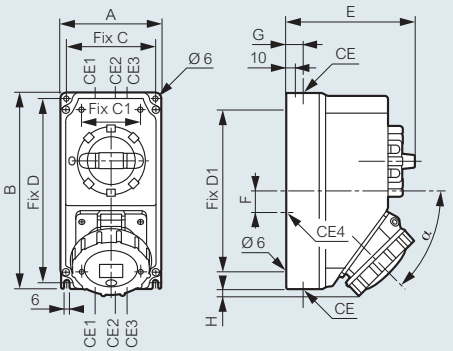
**Caution :** a residual current device (RCD) does not provide protection against overloads and short circuits

**Short circuit withstand :** for the short circuit withstand of MCBs, RCBOs and RCDs, refer to the performance pages for these products in the relevant section of this catalogue

**Ratings for units equipped with residual current device (RCD) :**

| Ratings | | Sensitivity |
|---|---|---|
| 16 A ..... | RCD 25 A | 30 mA |
| 32 A ..... | RCD 40 A | 30 mA |
| 63 A ..... | RCD 63 A | 30 mA |

## ■ Single socket units with switch (p. 197)

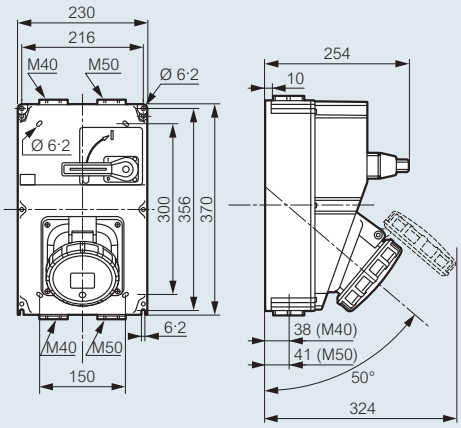



| | | Cat. Nos. | | Dimensions (mm) | | | | | | | | | | | Knock-out entries for cable gland | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 200 to 250 V∿ | 380 to 415 V∿ | A | B | C | D | C1 | D1 | E | F | G | H | α | CE1 | CE2 | CE3 | CE4 |
| 16 A | 2P+⏚ | 0592 60 | | | | | | | | 151 | | | 0 | | | | | |
| | 3P+⏚ | | 0592 61 | | | | | | | 151 | | | 0 | | | | | |
| | 3P+N+⏚ | | 0592 62 | 120 | 230 | 106 | 216 | 70 | 190 | 151 | 25 | 20 | 2 | 46° | M20/ M25 | – | M20/ M25 | M25/ Ø 29 |
| 32 A | 2P+⏚ | 0592 63 | | | | | | | | 152 | | | 8 | | | | | |
| | 3P+⏚ | | 0592 64 | | | | | | | 152 | | | 8 | | | | | |
| | 3P+N+⏚ | | 0592 65 | | | | | | | 156 | | | 12 | | | | | |
| 63 A | 3P+⏚ | | 0592 66 | 170 | 320 | 156 | 306 | 100 | 270 | 204 | 65 | 28 | 18 | 56° | M20/ M25 | M25/ M32 | M20 | M25/ Ø 38 |
| | 3P+N+⏚ | | 0592 67 | | | | | | | | | | | | | | | |

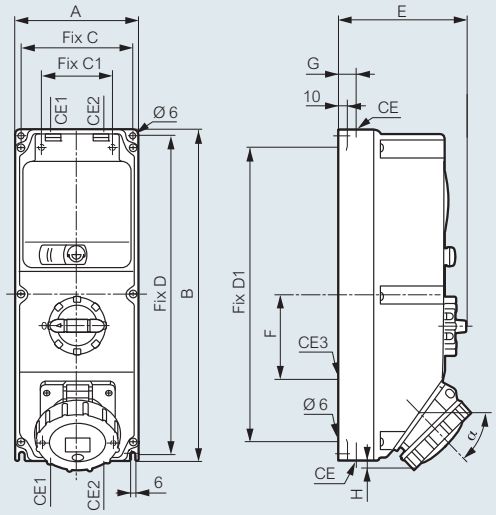
## ■ Single socket units with switch (continued) (p. 197)

Cat. Nos. 0591 14/15

125 A




## ■ Single socket units with ⊔ rail or MCB / protected by 30 mA RCBO or RCD (p. 197)




| | | Cat. Nos. | | | Dimensions (mm) | | | | | | | | | | | Knock-out entries for cable gland | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 110 to 130 V∿ | 200 to 250 V∿ | 380 to 415 V∿ | A | B | C | D | C1 | D1 | E | F | G | H | α | CE1 | CE2 | CE3 |
| 16 A | 2P+⏚ | 059660 | 059661/51 | | | | | | | | 151 | | | 0 | | | | |
| | 3P+⏚ | | | 059652 | | | | | | | 151 | | | 0 | | | | |
| | 3P+N+⏚ | | | 059653 | 140 | 370 | 126 | 356 | 74 | 330 | 151 | 95 | 20 | 2 | 46° | M20/ M25 | M20/ M25 | M25/ Ø 29 |
| 32 A | 2P+⏚ | | 059655 | | | | | | | | 152 | | | 8 | | | | |
| | 3P+⏚ | | | 059667/57 | | | | | | | 152 | | | 8 | | | | |
| | 3P+N+⏚ | | | 059668/58 | | | | | | | 156 | | | 12 | | | | |
| 63 A | 3P+N+⏚ | | | 059681 | 160 | 470 | 146 | 456 | 90 | 420 | 204 | 125 | 28 | 17 | 56° | M25/ M32 | M25/ M32 | M25/ M38/ Ø 38 |

# P 17 Tempra® IP 44, IP 55 and IP 66 combination units - LV 16/32/63 A

plastic surface mounting

## 16/32 A INTERLOCKED SWITCHED SOCKETS

**IK 08 according to BS EN 62262 and IEC 62262**
Self-extinguishing : 650 °C according to BS EN 60695-2-1 and IEC 60695-2-1
Temp. rating : –20 °C to +100 °C
Supplied without protection device (switch only)

*Technical information and dimensions (p. 202)*

| | | | Without protection 125 x 220 mm | | | | With DIN rail 125 x 280 mm | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | IP 44 | | IP 55 | | IP 44 With 5 module DIN rail | | IP 66 With 5 module DIN rail | |
| LV | | | Pack | Cat. Nos. | Pack | Cat. Nos. | Pack | Cat. Nos. | Pack | Cat. Nos. |
| 100 to 130 V 50/60 Hz | 16 A | 2 P + ⏚ | 1 | 0566 00 | 1 | 0566 20 | 1 | 0566 40 | 1 | – |
| 200 to 250 V 50/60 Hz | 16 A | 2 P + ⏚ | 1 | 0566 01 | 1 | 0566 21 | 1 | 0566 41 | 1 | 0566 61 |
| | 32 A | 2 P + ⏚ | 1 | 0566 09 | 1 | 0566 29 | 1 | 0566 49 | 1 | 0566 69 |
| 380 to 415 V 50/60 Hz | 16 A | 3 P + ⏚ | 1 | 0566 05 | 1 | 0566 25 | 1 | 0566 45 | 1 | 0566 65 |
| | | 3 P + N + ⏚ | 1 | 0566 06 | 1 | 0566 26 | 1 | 0566 46 | 1 | 0566 66 |
| | 32 A | 3 P + ⏚ | 1 | 0566 13 | 1 | 0566 33 | 1 | 0566 53 | 1 | 0566 73 |
| | | 3 P + N + ⏚ | 1 | 0566 14 | 1 | 0566 34 | 1 | 0566 54 | 1 | 0566 74 |

## 63 A INTERLOCKED SWITCHED SOCKETS

**IK 08 according to BS EN 62262 and IEC 62262**
Self-extinguishing : 650 °C according to BS EN 60695-2-1 and IEC 60695-2-1
Temp. rating : –20 °C to +100 °C
Supplied without protection device (switch only)

*Technical information and dimensions (p. 202)*

| | | | Without protection 125 x 421 mm | | With DIN rail 125 x 501 mm | |
|---|---|---|---|---|---|---|
| | | | IP 66 | | IP 66 With 5 module DIN rail | |
| LV | | | Pack | Cat. Nos. | Pack | Cat. Nos. |
| 380 to 415 V 50/60 Hz | 63 A | 3 P + N + ⏚ | 1 | 0589 10 | 1 | 0572 99 |

**For protective devices**

**see p. 79**

**Larger self assembly and factory configured units available on request**

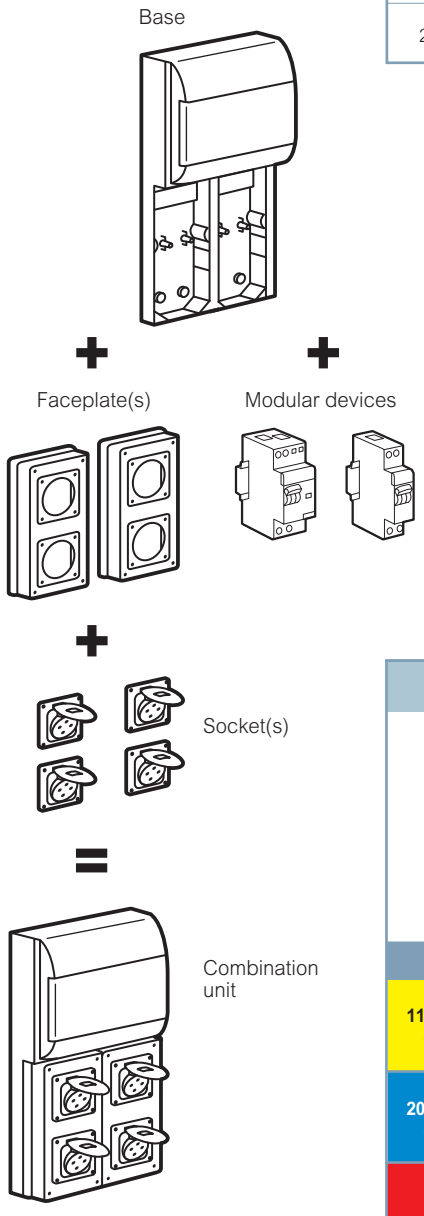
**Contact us on +44 (0) 845 605 4333**

# P 17 Tempra® IP 44 self assembly combination units - LV 16/32 A

**IK 08 according to BS EN 62262 and IEC 62262**
Self-extinguishing : 650 °C according to BS EN 60695-2-1 and IEC 60695-2-1
Temp. rating : –20 °C to +100 °C
Supplied without protection device (switch only)

*Technical information and dimensions (p. 203)*

**Assembly example**




**Note : Up to 9 socket units available on request**

## BASES FOR 125 x 220 MM FACEPLATES

| 16/32-63 A Surface mounting box | | 2 x 16 A | | 16/32 A | | 16/32 A | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| Without protection option | | With 5 module DIN rail | | With 12 module DIN rail | | With 18 module DIN rail | |
| Pack | Cat. Nos. | Pack | Cat. Nos. | Pack | Cat. Nos. | Pack | Cat. Nos. |
| 2 | 0577 10 | 5 | 0589 38 | 1 | 0577 05 | 1 | 0577 06 |

## 125 x 220 MM FACEPLATES

| 1 x 16 A or 1 x 32 A | | 2 x 16 A | | Blank plate | |
|---|---|---|---|---|---|
| | | | | | |
| Pack | Cat. Nos. | Pack | Cat. Nos. | Pack | Cat. Nos. |
| 5 | 0577 12 | 5 | 0577 13(1) | 5 | 0577 15 |

## SOCKETS FOR SELF ASSEMBLY COMBINATION UNITS

| | | | Panel mounting sockets with modular fixing centres IP 44 | |
|---|---|---|---|---|
| | | | Pack | Cat. Nos. |
| LV | | | | |
| 110 to 130 V 50/60 Hz | 16 A | 2 P + ⏚ | 10 | 0576 10 |
| | 32 A | 2 P + ⏚ | 10 | 0576 08 |
| 200 to 250 V 50/60 Hz | 16 A | 2 P + ⏚ | 10 | 0576 11 |
| | 32 A | 2 P + ⏚ | 10 | 0576 12 |
| 380 to 415 V 50/60 Hz | 16 A | 3 P + ⏚ | 10 | 0576 17 |
| | | 3 P + N + ⏚ | 10 | 0576 23 |
| | 32 A | 3 P + ⏚ | 10 | 0576 18 |
| | | 3 P + N + ⏚ | 10 | 0576 24 |

(1) Supplied with one blank plate

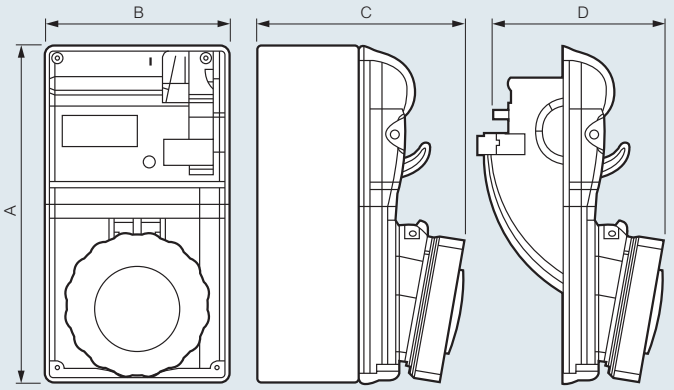
# P 17 Tempra® IP 44, IP 55 and IP 66 combination units - LV 16/32/63 A

**plastic surface mounting**

IP 44, IP 55, IP 66 according to BS EN 60529 and IEC 60529
IK 08 according to BS EN 62262 and IEC 62262
**Switch ratings** (p. 203)

## ■ Interlocked switched sockets without protection - IP 44/IP 55

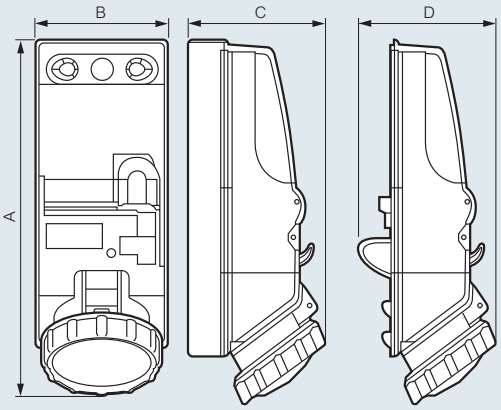
**LV 16/32 A** (p. 200)




| | | IP 44 Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) | IP 55 Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LV 16 A | 2 P+ ⏚ | 0566 00/01 | 220 | 125 | 127 | 122 | 0566 20/21 | 220 | 125 | 133 | 128 |
| | 3 P+ ⏚ | 0566 05 | 220 | 125 | 129 | 124 | 0566 25 | 220 | 125 | 134 | 129 |
| | 3 P+N+⏚ | 0566 06 | 220 | 125 | 130 | 125 | 0566 26 | 220 | 125 | 135 | 130 |
| LV 32 A | 2 P+ ⏚ | 0566 09 | 220 | 125 | 138 | 133 | 0566 29 | 220 | 125 | 143 | 138 |
| | 3 P+ ⏚ | 0566 13 | 220 | 125 | 138 | 133 | 0566 33 | 220 | 125 | 143 | 138 |
| | 3 P+N+⏚ | 0566 14 | 220 | 125 | 139 | 134 | 0566 34 | 220 | 125 | 144 | 139 |

## ■ Interlocked switched sockets with DIN rail - IP 44/IP 66

**LV 16/32 A** (p. 200)

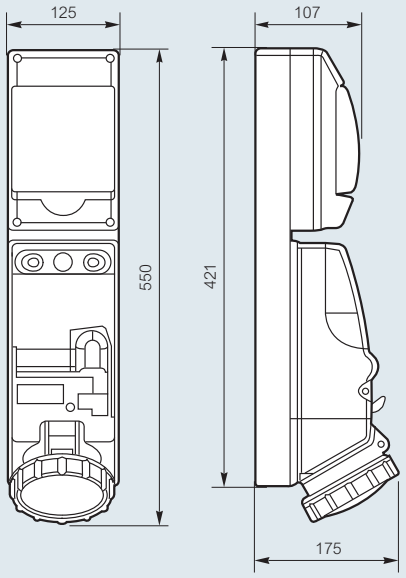



| | | IP 44 Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) | IP 66 Cat. Nos. | A (mm) | B (mm) | C (mm) | D (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LV 16 A | 2 P+ ⏚ | 0566 40/41 | 290 | 125 | 155 | 135 | 0566 61 | 300 | 125 | 155 | 135 |
| | 3 P+ ⏚ | 0566 45 | 290 | 125 | 155 | 135 | 0566 65 | 300 | 125 | 155 | 135 |
| | 3 P+N+⏚ | 0566 46 | 290 | 125 | 155 | 135 | 0566 66 | 300 | 125 | 155 | 135 |
| LV 32 A | 2 P+ ⏚ | 0566 49 | 295 | 125 | 155 | 145 | 0566 69 | 310 | 125 | 155 | 145 |
| | 3 P+ ⏚ | 0566 53 | 295 | 125 | 155 | 145 | 0566 73 | 310 | 125 | 155 | 145 |
| | 3 P+N+⏚ | 0566 54 | 295 | 125 | 155 | 145 | 0566 74 | 310 | 125 | 155 | 145 |

## ■ Interlocked switched sockets without protection/ with DIN rail - IP 66

**LV 63 A** (p. 200)

Cat. Nos. 0589 10/0572 99

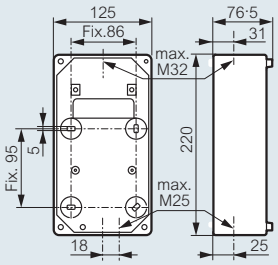


# P 17 Tempra® IP 44 self assembly combination units - LV 16/32 A

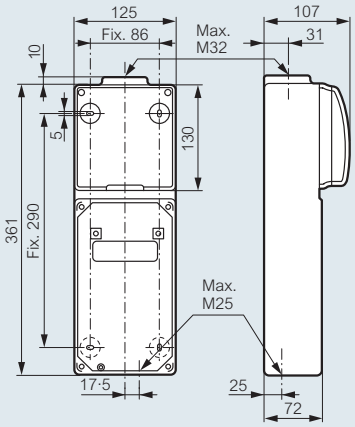
**plastic surface mounting**

## ■ Box and bases without DIN rail (p. 201)

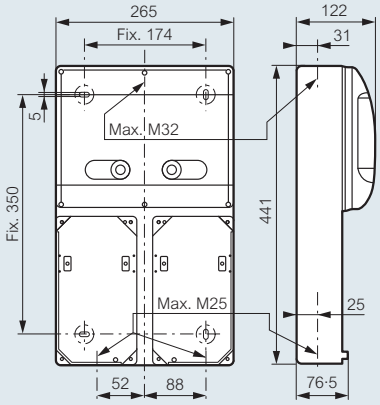
Box Cat. No. 0577 10



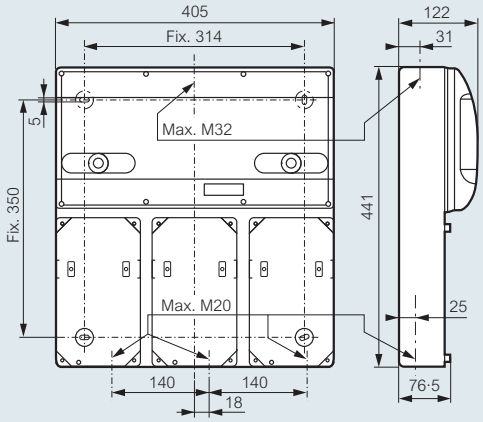

Base Cat. No. 0589 38




Base Cat. No. 0577 05

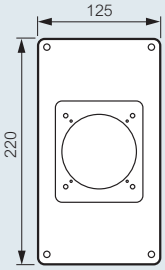



Base Cat. No. 0577 06

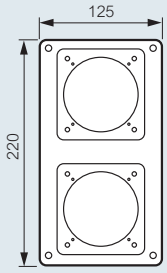



## ■ Faceplates modular fixing centre sockets (p. 201)

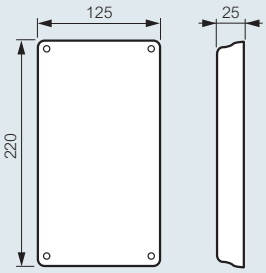
Cat. No. 0577 12




Cat. No. 0577 13

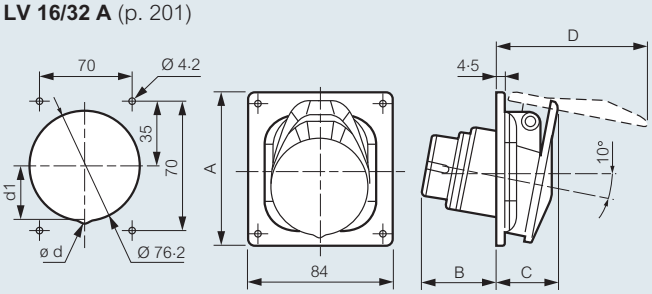



Cat. No. 0577 15




## ■ Panel mounting sockets with modular fixing centres (70 x 70 mm) - IP 44

**LV 16/32 A** (p. 201)




| | | Cat. Nos. | Material | Weight (Kg) | A (mm) | B (mm) | C (mm) | D (mm) | Ø d (mm) | d1 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 A | 2 P + ⏚ | 0576 10/11 | Plastic | 0·110 | 84 | 42 | 33 | 83·5 | – | – |
| | 3 P + ⏚ | 0576 17 | Plastic | 0·140 | 84 | 43 | 34.5 | 91.3 | – | – |
| | 3 P + N + ⏚ | 0576 23 | Plastic | 0·165 | 84 | 43 | 36·5 | 100 | – | – |
| 32 A | 2 P + ⏚ | 0576 08/12 | Plastic | 0·220 | 94 | 54 | 44 | 112 | – | – |
| | 3 P + ⏚ | 0576 18 | | | | | | | | |
| | 3 P + N + ⏚ | 0576 24 | Plastic | 0·255 | 94 | 54 | 45 | 120 | 8 | 36 |

## ■ P 17 switch ratings (p. 201)

| Usage category | 400 V∿ 3 phase | | |
|---|---|---|---|
| | 16 A | 32 A | 63 A |
| AC23 | 8·4 kW | 16·8 kW | |
| AC22 | | | 33 kW |
| AC23B | | | 33 kW |

# industrial plugs and sockets to International Standards

**Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2**

## ■ Voltage identification

Colours specified by standards and the clock indexing of the contact tubes in socket outlets

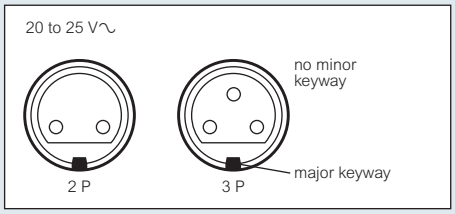
## ■ With Legrand Hypra and P 17 Tempra industrial plugs and sockets, your installations will comply fully with international standards :

- Standard IEC 60309-1 : this defines the safety regulations (protection of workers) which should be observed in the manufacture of industrial power sockets and plugs
- Standard IEC 60309-2 : this defines the interchangeability regulations for the dimensions of equipment with pins and sockets

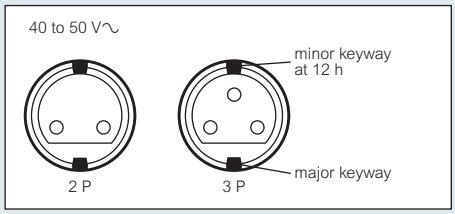
These safety regulations, together with the requirements of standard BS EN 60309-1, define the safety conditions necessary for normal operation. It is prudent to go one step further and insist on equipment which ensures the safety of the persons as a priority as well as ease of operation. Many manufacturers therefore use sockets which incorporate a switch, to avoid on-load disconnection (eg : Hypra Prisinter).

**ELV by position of the minor keyway**

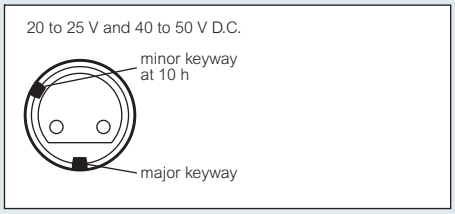
24 V∿ 50 – 60 Hz Violet




42 V∿ 50 – 60 Hz White

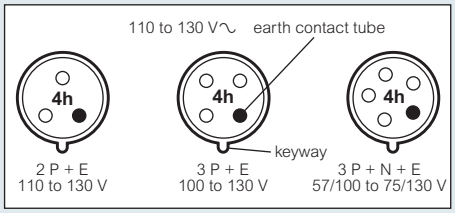



42 V⎓ White

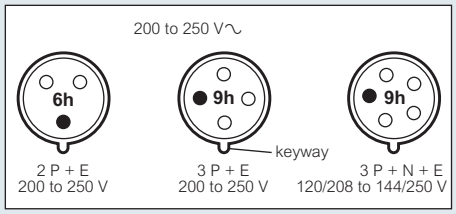



**LV by the position of the earth contact tube in relation to the major keyway in the socket outlets**

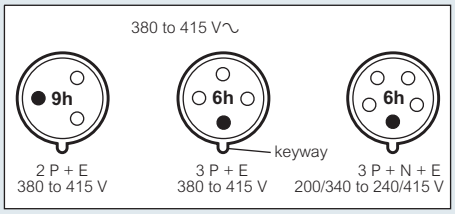
110 V∿ 50 – 60 Hz Yellow



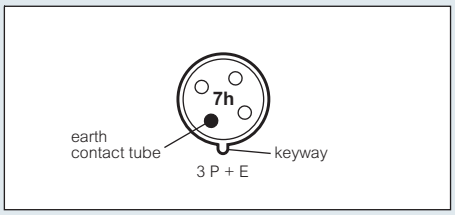

230 V∿ 50 – 60 Hz Blue



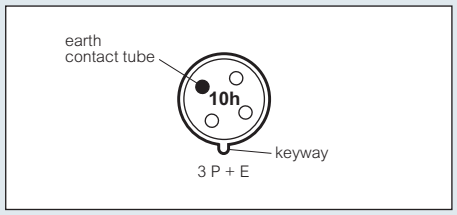

400 V∿ 50 – 60 Hz Red




500 V∿ 50 – 60 Hz Black




> 50 to 500 V∿
100 to 300 Hz inclusive Green




## ■ Terminal connection capacity, Prisinter rating and contact sizes

- Terminal connection capacity

| | Hypra/P 17 Tempra |
|---|---|
| **ELV 16/32 A** | 1 x 10 mm (A + B) |
| **LV 16 A** | 1 x 4 mm (A)<br>1 x 2·5 mm (B) |
| **LV 32 A** | 1 x 10 mm (A)<br>1 x 6 mm (B) |
| **LV 63 A** | 1 x 25 mm (A)<br>1 x 16 mm (B) |
| **LV 125 A** | 1 x 70 mm (A)<br>1 x 50 mm (B) |

(A) Panel mounting sockets
(B) Mobile sockets and plugs

- Hypra Prisinter breaking capacity for 3 x 400 V∿ according to IEC 60947-1-3

| Category | 16 A | 32 A | 63 A |
|---|---|---|---|
| **AC 1** | 16 A | 32 A | 63 A |
| **AC 23** | 8·4 kW | 16·8 kW | 33 kW |
| **AC 3** | 8·4 kW | 16·8 kW | 33 kW |

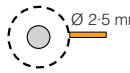
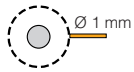
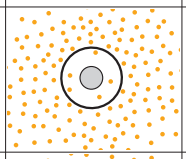
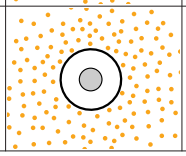
- Diameters of pins or contact tubes (mm)

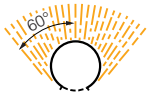
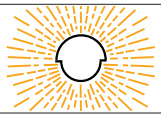
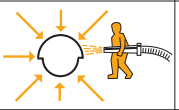
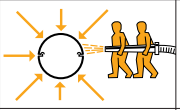
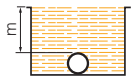
| | | 16 A | 32 A | 63 A | 125 A |
|---|---|---|---|---|---|
| **24 V∿<br>42 V∿<br>42 V⎓** | Phase | 6 | 6 | – | – |
| **110 V∿<br>230 V∿<br>400 V∿<br>440 V∿<br>500 V∿** | Phase + Neutral | 5 | 6 | 8 | 10 |
| | Earth | 7 | 8 | 10 | 12 |
| | Pilot | – | – | 6 | 6 |

# Protection classifications

## Protection against solid bodies and liquids : Index of protection - IP xx

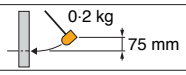
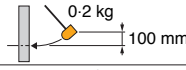
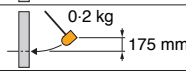
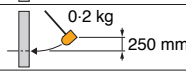
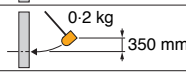
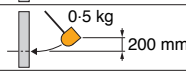
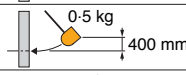
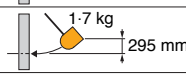
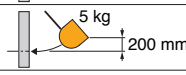
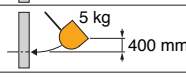
Degree of protection of enclosures of electrical equipment in accordance with standards IEC 60529, BS EN 60529
Up to 1 000 V∿ and 1 500 V⎓

| 1st figure : protection against solid bodies | | |
|---|---|---|
| **IP** | **tests** | |
| **0** | | No protection |
| **1** | | Protected against solid bodies of 50 mm and greater (e.g. accidental contact with the hand) |
| **2** | | Protected against solid bodies of 12·5 mm and greater (e.g. finger) |
| **3** |   | Protected against solid bodies of 2·5 mm and greater (e.g. tools, wires) |
| **4** |   | Protected against solid bodies larger than 1 mm (e.g. thin tools and fine wires) |
| **5** |  | Protected against dust (no harmful deposit) |
| **6** |  | Completely protected against dust |

| 2nd figure : protection against liquids | | |
|---|---|---|
| **IP** | **tests** | |
| **0** | | No protection |
| **1** | | Protected against vertically falling drops of water (condensation) |
| **2** | | Protected against drops of water falling up to 15° from the vertical |
| **3** |   | Protected against water sprayed up to 60° from the vertical |
| **4** |  | Protected against splashing water from all directions |
| **5** |  | Protected against jets of water from all directions |
| **6** |  | Protected against powerful jets of water from all directions |
| **7** | | Protected against the effects of temporary immersion in water |
| **8** |   | Protected against the continuous effects of immersion in water having regard to specific conditions |

## Protection against mechanical impact : Index of protection - IK

According to standards IEC 62262 and BS EN 62262

| IK | Tests | Impact energy (in Joules) |
|---|---|---|
| **IK 00** | | 0 |
| **IK 01** |   | 0·15 |
| **IK 02** |   | 0·2 |
| **IK 03** |   | 0·35 |
| **IK 04** |   | 0·5 |
| **IK 05** |   | 0·7 |
| **IK 06** |   | 1 |
| **IK 07** |   | 2 |
| **IK 08** |   | 5 |
| **IK 09** |   | 10 |
| **IK 10** |   | 20 |

(1) A product previously classed as IP xx-7 can be assumed to fulfill the conditions of an IP xx - IK 08

This table can be used to ascertain the resistance of a product to an impact given in Joules from the IK code (graduated from 00 to 10).
It can also be used to ascertain the correspondence with the old IP code 3rd digit and the corresponding external "Ag" conditions.

**The contents of the Protection Classifications charts are for guidance only. If you have any doubt as to the interpretation of the information contained therein, please refer either to the standard itself or contact Legrand.**

# Health and Safety at Work, etc. Act. 1974

## Statement to Purchasers and Prospective Purchasers

1. Section 6 of this Act provides that manufacturers, designers, importers or suppliers of articles for use at work have a duty to ensure so far as is reasonably practical, that the article will be safe and without risk to health when properly used. An article is not regarded as being 'properly used' if it is used without regard to any relevant information or advice relating to its use made available by the manufacturer, designer, importer or supplier.

2. With regard to these provisions the following is given as a guide to the information which is readily available to you. This information relates to those products detailed in our catalogue(s) or associated literature or may be obtained by specific request to the Company.

3. All products should be installed and maintained in accordance with good engineering practice and relevant British or other applicable standards, regulations for the installation of equipment by the Institute of Electrical Engineers or any other applicable Codes of Practice.

## Health and Safety at Work Act

## The Electricity at Work Regulations, 1989

1. All installations and maintenance should be carried out within the provision of the above Act and by persons so qualified as defined in the Act.

2. Information and advice on the suitability of our products can be obtained from Legrand Electric Limited on specific request.

For information concerning wiring device standards outside the UK contact :

BSI
Customer Services
09:00 to 17:00 – Monday to Friday
Tel : +44 (0) 20 8996 9001
Fax : +44 (0) 20 8996 7001
Email : cservices@bsi-global.com

CE marking appears on electrical or electronic products from Legrand and enables the circulation of goods outside the UK.

**Conditions of sale**
Please consult our current price list

In accordance with its policy of continuous improvement the Company reserves the right to change specifications and designs without notice.
All illustrations, descriptions, dimensions and weights in this catalogue are for guidance and cannot be held binding on the Company.

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| 96 | - |
| 97 | - |
| 98 | - |
| **6000 00** | |
| 6019 32 | 33 |
| 74 | - |
| 76 | - |
| 78 | - |
| 81 | - |
| 82 | - |
| 83 | - |
| 85 | - |
| 86 | - |
| 87 | - |
| 88 | - |
| 6022 51 | 61 |
| 52 | - |
| 53 | - |
| 54 | - |
| 6027 10 | 83 |
| 11 | - |
| 6037 70 | 123 |
| 71 | - |
| 6064 10 | 84 |
| 11 | - |
| 12 | - |
| 13 | - |
| 14 | - |
| 15 | - |
| 6071 00 | 58 |
| 01 | - |
| 02 | - |
| 03 | - |
| 04 | - |
| 05 | - |
| 06 | - |
| 07 | - |
| 08 | - |
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| 18 | - |
| 19 | - |
| 20 | 59 |
| 21 | - |
| 22 | - |
| 23 | - |
| 30 | - |
| 31 | - |
| 50 | 58 |
| 51 | - |
| 52 | - |
| 53 | - |
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| 59 | - |
| 60 | - |
| 61 | - |
| 62 | - |
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| 64 | - |
| 65 | - |
| 66 | - |

| Cat. Nos. | Page No. |
|---|---|
| 6071 67 | 58 |
| 68 | - |
| 69 | - |
| 70 | 59 |
| 72 | - |
| 75 | - |
| 76 | - |
| 80 | - |
| 81 | - |
| 82 | - |
| 83 | 58 |
| 6072 00 | 59 |
| 01 | - |
| 02 | - |
| 03 | - |
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| 06 | - |
| 10 | 58 |
| 11 | - |
| 12 | - |
| 13 | - |
| 14 | - |
| 15 | - |
| 16 | - |
| 17 | - |
| 18 | - |
| 6360 95 | 50 |
| 96 | - |
| 6361 00 | 50 |
| 01 | - |
| 02 | - |
| 03 | - |
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| 06 | - |
| 07 | - |
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| 19 | - |
| 20 | - |
| 21 | - |
| 22 | - |
| 23 | - |
| 25 | - |
| 90 | - |
| 95 | - |
| 6362 02 | 50 |
| 07 | - |
| 12 | - |
| 13 | - |
| 17 | - |
| 25 | - |
| 93 | - |
| 94 | - |
| 6423 62 | 108 |
| 63 | - |
| 64 | - |
| 65 | - |
| 66 | - |
| 68 | - |

## Enclosures

| Enclosure Size (H x W x D mm) | Old Atlantic phased out items | | New Atlantic-E closest equivalent | |
|---|---|---|---|---|
| | Cat. Nos. (without plain plate) | Status | Cat. Nos. (with plain plate) | Page No. |
| 300 x 200 x 150 | n/a | – | 0399 30 | 14 |
| 300 x 200 x 160 | 0355 00 | O | n/a | – |
| 300 x 300 x 150 | n/a | – | 0399 31 | 14 |
| 300 x 300 x 160 | 0355 05 | O | n/a | – |
| 300 x 300 x 200 | 0355 30 | O | 0399 32 | 14 |
| 300 x 400 x 200 | 0355 01 | O | 0399 33 | 14 |
| 400 x 300 x 150 | n/a | – | 0399 34 | 14 |
| 400 x 300 x 160 | 0355 09 | O | n/a | – |
| 400 x 300 x 200 | 0355 02 | O | 0399 35 | 14 |
| 400 x 400 x 200 | 0355 31 | O | 0399 36 | 14 |
| 400 x 600 x 250 | 0355 06 | O | 0399 37 | 14 |
| 500 x 400 x 150 | n/a | – | 0399 38 | 14 |
| 500 x 400 x 200 | 0355 03 | O | 0399 39 | 14 |
| 500 x 400 x 250 | 0355 07 | O | 0399 40 | 14 |
| 500 x 500 x 250 | 0355 32 | O | 0399 41 | 14 |
| 600 x 400 x 200 | 0355 04 | O | 0399 42 | 14 |
| 600 x 400 x 250 | 0355 08 | O | 0399 43 | 14 |
| 600 x 500 x 200 | n/a | – | 0399 44 | 14 |
| 600 x 500 x 250 | n/a | – | 0399 45 | 14 |
| 600 x 600 x 250 | 0355 10 | O | 0399 46 | 14 |
| 600 x 600 x 300 | 0355 20 | O | n/a | – |
| 600 x 600 x 400 | 0355 36 | O | n/a | – |
| 600 x 800 x 300 | 0355 21 | O | n/a | – |
| 600 x 1000 x 300 | 0355 37 | O | n/a | – |
| 700 x 500 x 200 | n/a | – | 0399 51 | 14 |
| 700 x 500 x 250 | 0355 12 | O | 0399 52 | 14 |
| 700 x 500 x 300 | 0355 22 | O | n/a | – |
| 800 x 600 x 200 | n/a | – | 0399 54 | 14 |
| 800 x 600 x 250 | 0355 14 | O | 0399 55 | 14 |
| 800 x 600 x 300 | 0355 23 | O | 0399 56 | 14 |
| 800 x 600 x 400 | 0355 28 | O | n/a | – |
| 800 x 800 x 250 | 0355 15 | O | n/a | – |
| 800 x 800 x 300 | 0355 24 | O | 0399 59 | 14 |
| 800 x 1000 x 250 | 0355 33 | O | n/a | – |
| 800 x 1000 x 300 | 0355 34 | O | n/a | – |
| 1000 x 600 x 250 | 0355 17 | O | n/a | – |
| 1000 x 600 x 300 | 0355 26 | O | 0399 63 | 14 |
| 1000 x 800 x 250 | 0355 18 | O | 0399 64 | 14 |
| 1000 x 800 x 300 | 0355 27 | O | 0399 65 | 14 |
| 1000 x 800 x 400 | 0355 29 | O | n/a | – |
| 1000 x 1000 x 300 | 0355 91 | O | n/a | – |
| 1000 x 1200 x 300 | 0355 90 | O | n/a | – |
| 1200 x 800 x 300 | 0355 92 | O | 0399 69 | 14 |
| 1200 x 800 x 400 | 0355 96 | O | n/a | – |
| 1200 x 1000 x 300 | 0355 93 | O | n/a | – |
| 1200 x 1200 x 300 | 0355 94 | O | n/a | – |
| 1200 x 1200 x 400 | 0355 97 | O | n/a | – |
| 1400 x 800 x 400 | 0355 98 | O | n/a | – |
| 1400 x 1000 x 300 | 0355 95 | O | n/a | – |

## Modular bell transformers and safety transformers

| Old modular transformers phased out items | | | New modular transformers closest equivalent | | |
|---|---|---|---|---|---|
| Cat. Nos. | Description | Status | Cat. Nos. | Description | Page No. |
| 0042 20 | Lexic 230/8 V AC Transformer | P | 4130 90 | Lexic 230/8 V AC Transformer | 116 |
| 0042 25 | Lexic 230/12-8 V AC Transformer | P | 4130 91 | Lexic 230/12-8 V AC Transformer | 116 |
| 0042 37 | Lexic 230/24-12 V AC Transformer | P | 4130 93 | Lexic 230/24-12 V AC Transformer | 116 |
| 0042 51 | Lexic 16 VA Safety Transformer | P | 4130 95 | Lexic 16 VA Safety Transformer | 116 |
| 0042 52 | Lexic 25 VA Safety Transformer | P | 4130 96 | Lexic 25 VA Safety Transformer | 116 |
| 0042 53 | Lexic 40 VA Safety Transformer | P | 4130 97 | Lexic 40 VA Safety Transformer | 116 |
| 0042 54 | Lexic 63 VA Safety Transformer | P | 4130 98 | Lexic 63 VA Safety Transformer | 116 |

## Time switches

| Old time switches phased out items | | | New time switches closest equivalent | | |
|---|---|---|---|---|---|
| Cat. Nos. | Description | Status | Cat. Nos. | Description | Page No. |
| 0047 61 | AlphaRex D21 230 V | P | 4126 31 | AlphaRex³ D21 230 V | 120 |
| 0047 71 | AlphaRex D22 230V | P | 4126 41 | AlphaRex³ D22 230 V | 120 |
| 0047 72/ 0047 81 | Programming Transfer Key | P | 4128 72 | Programming Transfer Key | 120 |
| 0047 73 | Programming Software Kit | P | 4128 73 | Programming Software Kit | 120 |
| 0047 64 | AlphaRex Astro D21 230 V | P | 4126 54 | AlphaRex³ Astro D21 230 V | 120 |
| 0047 67 | AlphaRex Astro D22 230 V | P | 4126 57 | AlphaRex³ Astro D22 230 V | 120 |
| 0037 30 | MicroRex T11 | P | 4127 80 | MicroRex T11 | 125 |
| 0037 40 | MicroRex QT11 | P | 4127 90 | MicroRex QT11 | 125 |
| 0037 52 | MicroRex T31 | P | 4128 12 | MicroRex T31 | 125 |
| 0037 53 | MicroRex QT31 | P | 4128 13 | MicroRex QT31 | 125 |
| 0037 44 | MicroRex QW11 | P | 4127 94 | MicroRex QW11 | 125 |
| 0037 55 | MicroRex QW31 | P | 4127 95 | MicroRex QW31 | 125 |
| 0047 02 | Electronic Time-lag Switch | P | 4126 02 | Electronic Time-lag Switch | 127 |

Status : P = phase out
O = obsolete

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