

INDUSTRIAL AND POWER PROTECTION

CATALOGUE

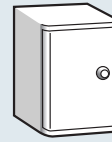


THE **GLOBAL SPECIALIST**
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

Enclosures and equipment



P. 12
Atlantic-E
wall mounting
steel enclosures
IP 66 - IK 10

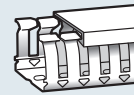


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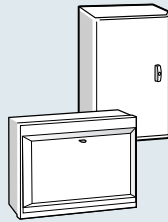


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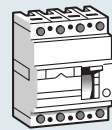


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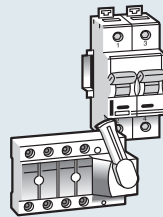


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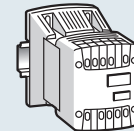


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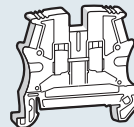


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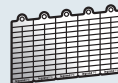


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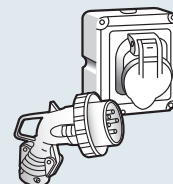


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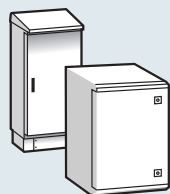
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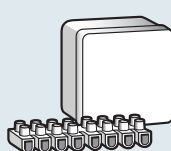
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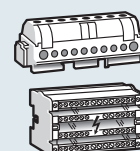
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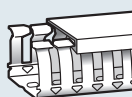
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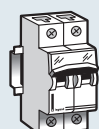
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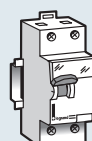
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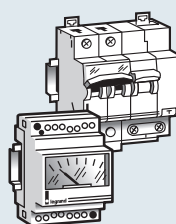
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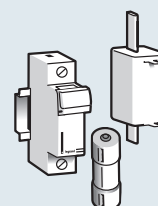
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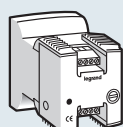
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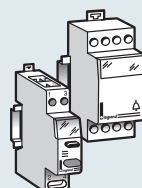
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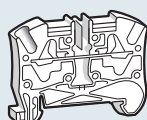
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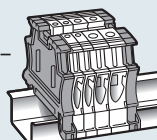
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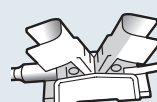
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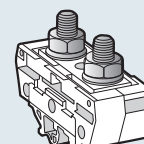
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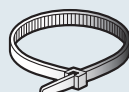
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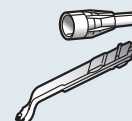
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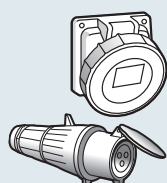
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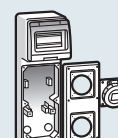
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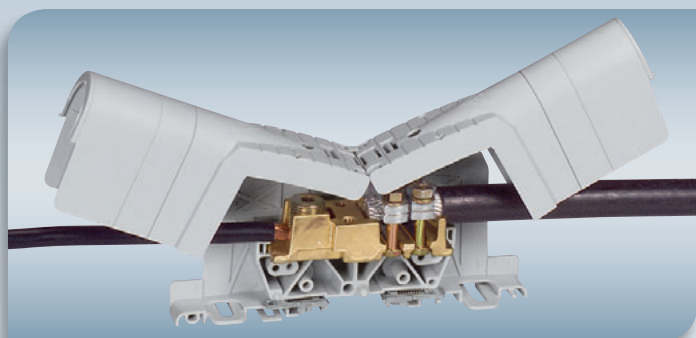
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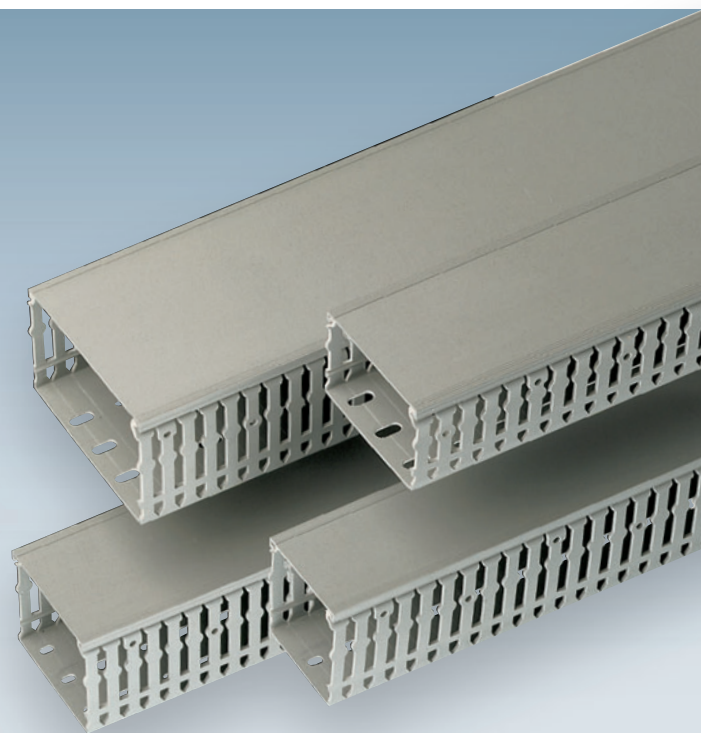
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An industrial portfolio full of innovation

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)



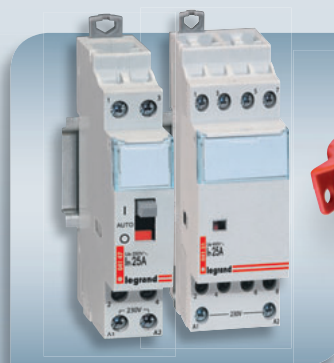
Uniquely different, Transcab open slot panel trunking features a snap to length base and removable fingers, support ribs for strength and rigidity and a clip-on lid for rapid installation... panel cabling couldn't be easier! (see p. 166 to 171)



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



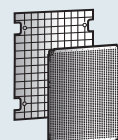
P. 10
Selection chart

Marina GRP



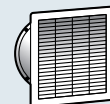
P. 10
Selection chart

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



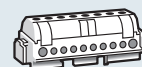
P. 36
Selection chart

Nylbloc terminal strips



P. 41
Nylbloc terminal strips

Distribution blocks



P. 42
Distribution terminal blocks

NEW IN 2012



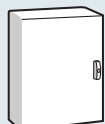
Atlantic-E steel enclosures
IP 66
(p. 14)



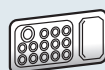
Atlantic stainless steel 316 L enclosures
IP 66
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P. 12
Introduction to
Atlantic-E steel



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



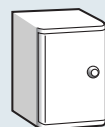
P. 14 NEW
Cabstop plates
IP 55



P. 15
Technical
information



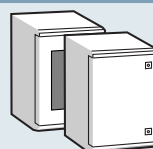
P. 16
Atlantic
wall mounting 304L
stainless enclosures
IP 66 - IK 10



P. 16 NEW
Atlantic
wall mounting 316L
stainless enclosures
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Technical
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P. 18
Marina
wall mounting
GRP enclosures
IP 66 - IK 10



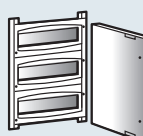
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information



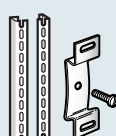
P. 21
Marina free standing
GRP enclosures
IP 66 - IK 10



P. 22
Technical
information



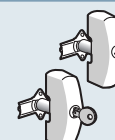
P. 25
Insulated
modular chassis
and internal
doors



P. 26
Equipment
and fixing
accessories



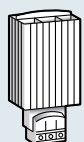
P. 27
Technical
information



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



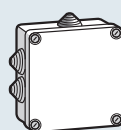
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Technical
information



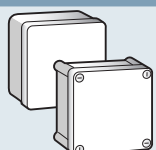
P. 35
Terminal shield
boxes
IP 30



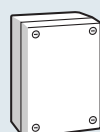
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Technical
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P. 37
Plexo boxes
IP 55 - IK 07



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



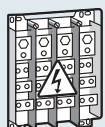
P. 40
PVC range
with increased
depth IP 55 - IK
07/08



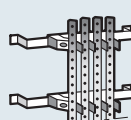
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P. 43
Modular
distribution
blocks
40 to 160 A



P. 44
Four pole
distribution
blocks
125 to 400 A



P. 45
Equipment for
self assembly
distribution blocks



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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

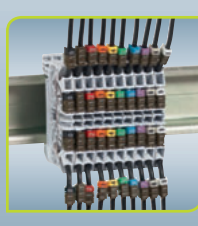
With high quality products throughout its product portfolio, Legrand is in an unbeatable position... offering integrated solutions designed to meet your needs whatever the budget or installation requirements.



DIN rail equipment
see p. 98 to 127



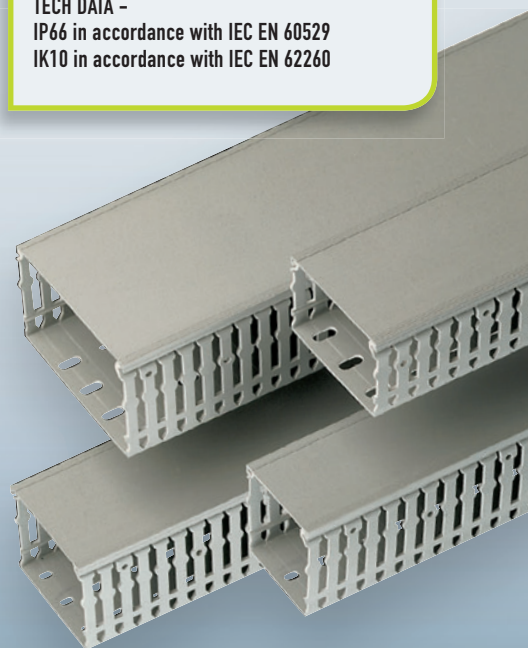
Transformers
see p. 104 to 111



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 WALL MOUNTING GREY RAL 7035 All supplied with plain plate	STAINLESS STEEL IP 66 - IK 10 WALL MOUNTING Stainless 304 L Stainless 316 L 		POLYESTER (GRP) IP 66 - IK 10 WALL MOUNTING GREY RAL 7035	GREY RAL 7035 with window	FREE STANDING GREY RAL 7035	
Shapes	H (mm)	W (mm)	D (mm)							
	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											ASSOCIATED PRODUCTS
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	–	–	–	–	–	Document pocket (p. 26)
–	0360 04	0360 12	–	–	0361 51	0367 80	–	–	–	–	
–	0360 09	0360 15	–	–	0361 52	0367 81	–	–	–	–	
0360 49 ^(M) 0360 50 ^(A)	0360 00 ^(A) 0360 01 ^(M)	0360 07 ^(A) 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) 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) 0362 94 ^(M)	0363 00 ^(E) 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) 0362 95 ^(M)	0363 01 ^(E) 0362 92 ^(M)	0364 97 ^(E)	–	
0360 64	0360 46	0360 87	0361 10	0363 65 ⁽²⁾	0361 58	0367 84	0365 57 ^(E) 0362 95 ^(M)	0363 01 ^(E) 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	–	



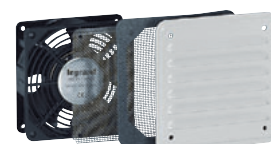
Document pocket
(p. 26)



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 130° 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

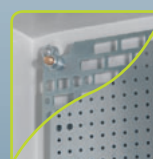


Optional features and fully compatible products extend your choices

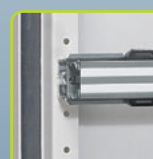
With a wide selection of accessories and equipment available, Atlantic-E enclosures can easily be tailored to the specific requirements of each application.



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



Atlantic-E steel wall mounting enclosures

IP 66 - IK 10

NEW



0399 30



0399 35



0399 43



0365 53



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

Pack	Cat. Nos.	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			
		Dimensions (mm)			Weight (kg)
		Height	Width	Depth	
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		Weight (kg)
		Width (mm)	Depth (mm)	
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

Pack	Cat. Nos.	Plinths			
		Anthracite grey RAL 7021 Height 200 mm Front and rear trap door			
		For 300 mm deep enclosures			
		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			
		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			
1	0364 01	Set of 4			
		Locking accessories			
		Metal rebate lock barrels			
10	0399 80	6 mm female square			
10	0399 81	8 mm male triangle			
		Keys for rebate locks			
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 :			
10	0399 86	405			
10	0399 87	455			
10	0399 88	2433 A			
10	0365 45	Set of two 2433 A keys			

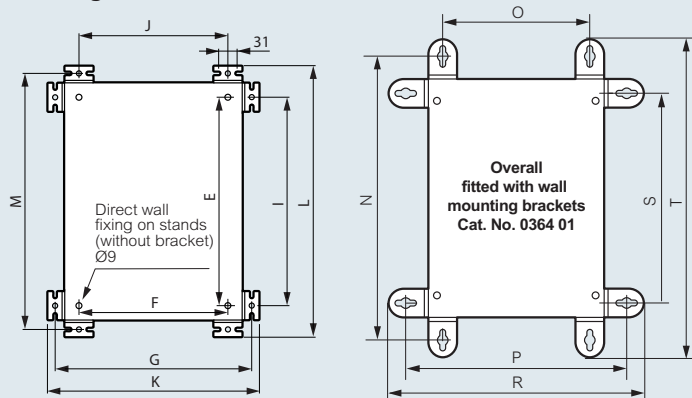


For Lina 12.5 and Lina 25 perforated plates see p. 23
For modular chassis see p. 25
For sectioned uprights see p. 26
For crosspieces see p. 26

Atlantic-E steel wall mounting enclosures

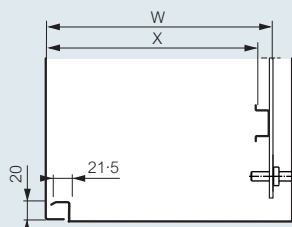
IP 66 - IK 10

■ Fixing dimensions



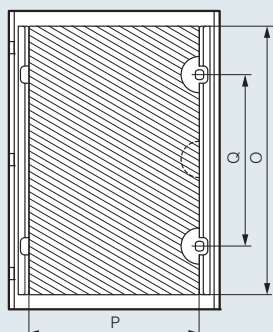
Enclosures		Vertical brackets		Mounting centres		Horizontal brackets		Mounting centres		Overall		Overall with 0364 01		Vertical brackets		Horizontal brackets	
H (mm)	W (mm)	M (mm)	J (mm)	E (mm)	I (mm)	G (mm)	F (mm)	L (mm)	K (mm)	T (mm)	R (mm)	N (mm)	O (mm)	P (mm)	S (mm)		
300	200	330	150	250	250	230	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	430	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 (mm)	Back of enclosures W (mm)	X (mm)
150	130	115
200	180	165
250	230	215
300	280	265

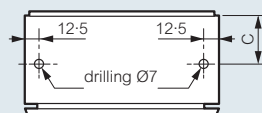
■ Doors : usable area dimensions



Enclosures H x W (mm)	Door usable space Height O (mm)	Width P (mm)	Area (dm ²)	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⁾

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

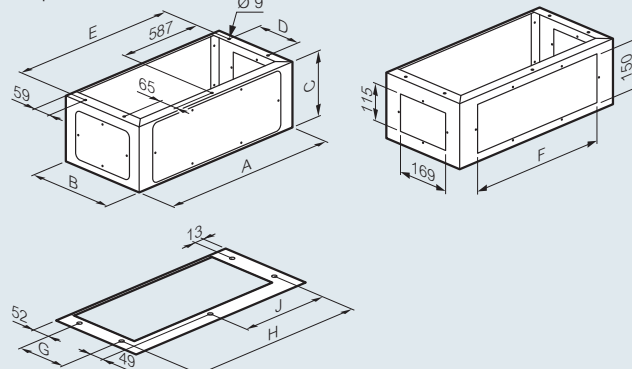
■ Roof fixing position



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

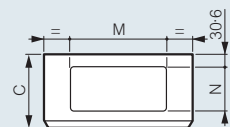
■ Plinths

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

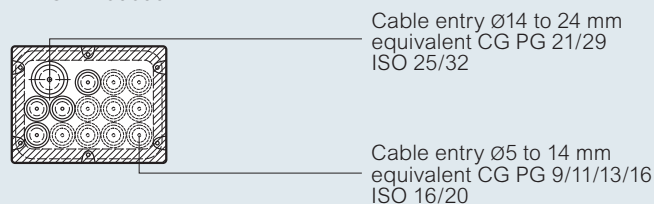
■ Cable entry plate



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

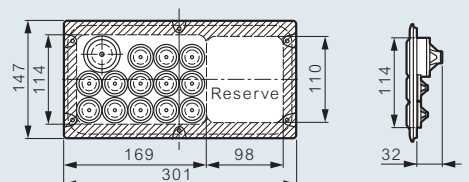
■ Cabstop plates IP 55

- 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



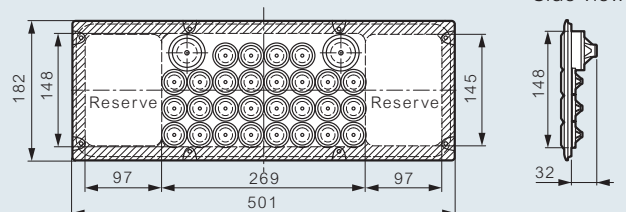
Cat. No. 0364 95

Side view



Cat. No. 0364 97

Side view



Atlantic stainless steel wall mounting enclosures

IP 66 - IK 10 - Nema 4x



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

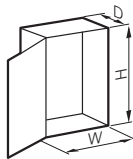
Automatic positioning of equipment on to active corners with M8 fixings

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)

Pack Cat. Nos. **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

		External dimensions (mm)			Weight (kg)
		Height	Width	Depth	
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

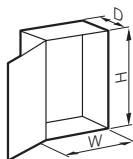


Stainless steel enclosures – 316 L (1 door)

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

		External dimensions (mm)			Weight (kg)
		Height	Width	Depth	
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

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 mm²

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 NFEN	Z3 CN 18-10 X 2 CNI 19-11	Z3 CND 17-11-02 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



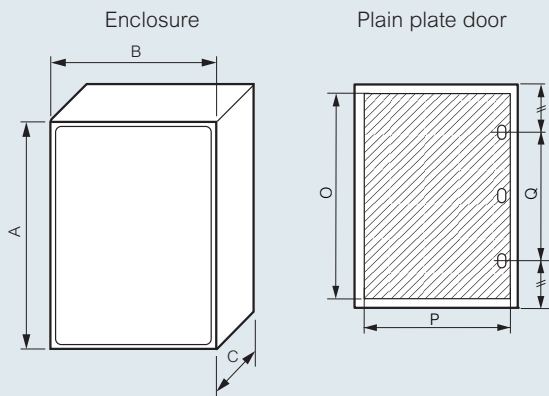
For plates, internal doors, chassis and equipment

see p. 23-32

Atlantic stainless steel wall mounting enclosures

IP 66 - IK 10 - Nema 4x

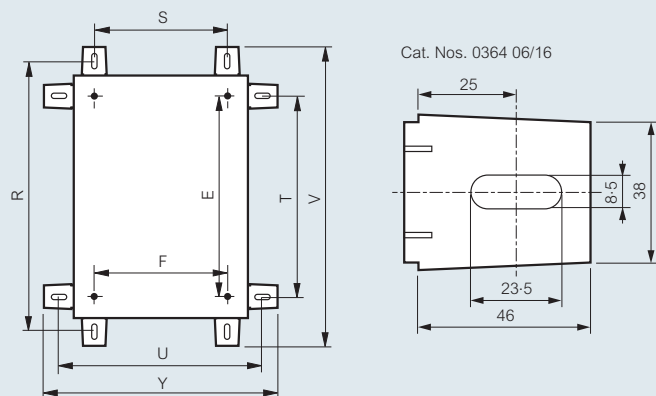
■ Dimensions



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

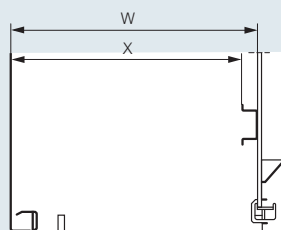


Cat. Nos.	Vertical wall brackets		Horizontal wall brackets		Dimensions			
	R (mm)	S (mm)	T (mm)	U (mm)	V (mm)	Y (mm)	E (mm)	F (mm)
0352 00/40	353	150	250	250	395	292	225	169
0352 01/41	453	250	350	350	495	392	325	269
0352 02/42	553	350	450	450	595	492	425	369
0352 03	653	350	550	450	695	492	525	369
0352 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



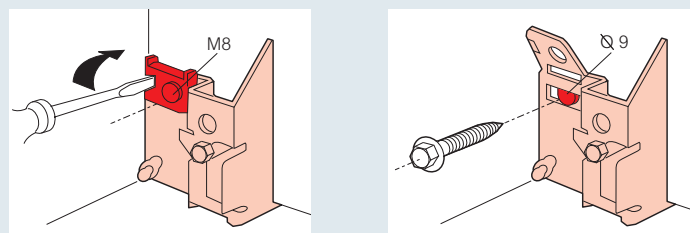
Enclosure Depth (mm)	Without runners	
	W (mm)	X (mm)
160	140	125
200	180	165
250	230	215
300	280	265
400	380	365

For mounting plates, see p. 26

Active corner

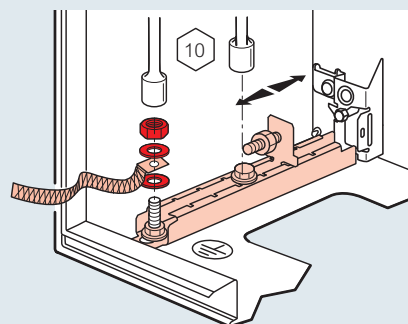
Provides quick and easy fixing

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



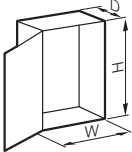
0362 55 +
wall brackets Cat. No. 0364 09



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

Pack	Cat. Nos.	GRP enclosures					
Plain door							
		External dimensions (mm)			Weight (kg)		
		Height	Width	Depth			
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	1020	810	300	21.8		
1	0362 64	1220	810	300	25.0		
Glazed door with tinted glass window							
		External dimensions (mm)			Window (mm)		Weight (kg)
		Height	Width	Depth	Height	Width	
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		
For enclosures (mm)		
	Width	Depth
1	0362 93	500
1	0362 94	600
1	0362 95	800

Plinths

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

For enclosures (mm)		
	Width	Depth
1	0362 91	600
1	0362 92	800

Fixing accessories

IP 66 maintained	
Wall mounting brackets	
Set of 4, supplied with screws	
For enclosures	
	Height (mm) Max. load (kg)
1	0364 08 300 100
1	0364 09 400 to 1 200 150
Rear with threaded rod	
M8 for enclosures height ≥ 400 mm	
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)	
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

1	0362 42	Depth adjustment kit for enclosures ≥ 200 mm 4 fixings complete with screws
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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)

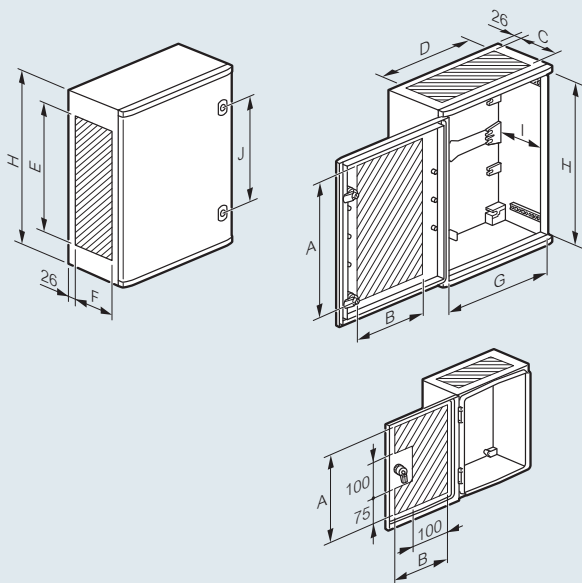
Locking accessories (see p. 28)

(1) Except Cat. No. 0362 50

Marina wall mounting enclosures

polyester (GRP) - IP 66 - IK 10

■ Dimensions, usable areas

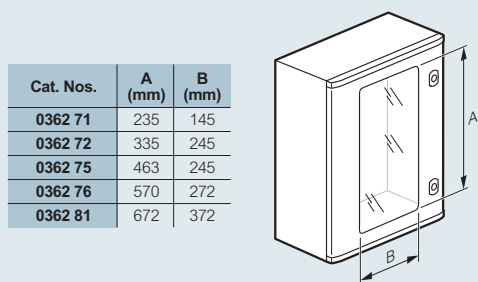


Cat. Nos.	Usable dimensions (mm)									
	A ⁽¹⁾	B ⁽¹⁾	C	D	E	F	G	H	I max.	J
0362 50	250	150	105	195	250	115	194	280	130	—
0362 51/71	300	180	130	250	260	150	260	350	178	200
0362 52/72	400	280	130	350	360	150	360	450	178	300
0362 55/75	500	280	180	350	460	180	360	560	225	400
0362 56/76	600	340	170	400	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	1100	600	220	700	1060	230	960	1162	261	700

(1) Except for enclosures with glass windows

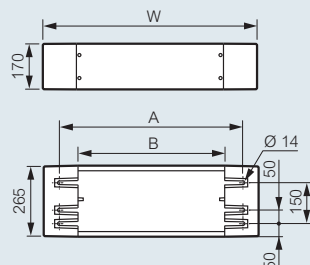
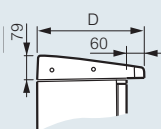
■ Dimensions for the window (glass door)

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

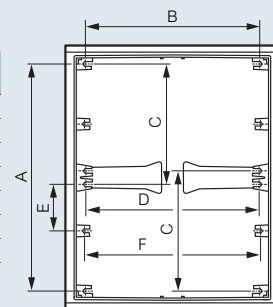


Roof Cat. Nos.	Width (mm)	D (mm)	Weight (kg)
0362 93	510	310	1
0362 94	612	360	1.3
0362 95	812	360	1.7

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

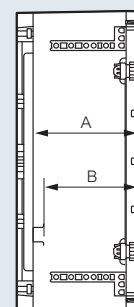
■ Equipment fixing

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	1125	725	925	725	100	728.5



■ Adjustment of equipment (kit required)

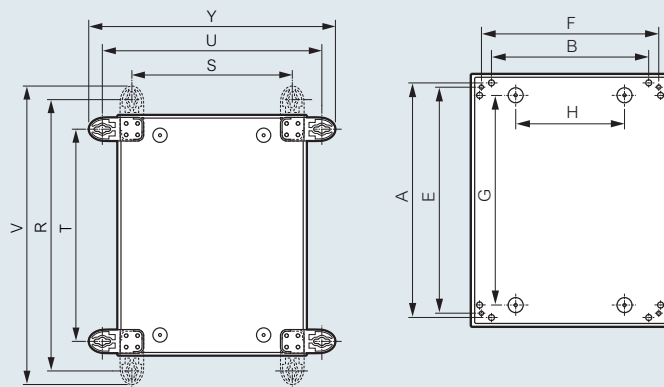
Cat. Nos.	Full mounting plate (mm)		Chassis with rail (mm)	
	A max	A min (with Cat. No. 0362 42)	B max	B min (with Cat. No. 0362 42)
0362 50	135	—	—	—
0362 51/71	170	70	155	55
0362 52/72	170	70	155	55
0362 55/75	220	70	205	55
0362 56/76	220	70	205	55
0362 61/81	270	70	255	55
0362 63	270	70	255	55
0362 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	1087	748	1142	958	877	932
0362 64	—	—	1164	768	1100	500	1287	748	1342	1158	877	932

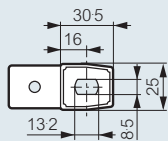
(1) Use Cat. No. 0364 08 wall brackets. Others use Cat. No. 0364 09 wall brackets

Marina wall mounting enclosures

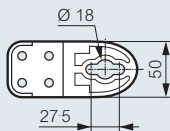
polyester (GRP) - IP 66 - IK 10 (continued)

■ Wall mounting brackets

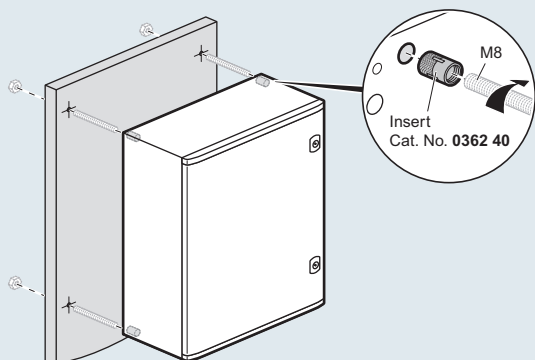
Cat. No. 0364 08
for enclosures height 300 mm



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



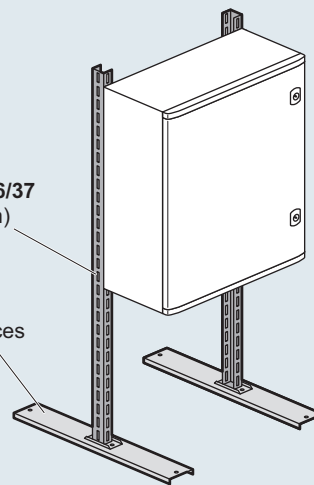
■ Wall fixing by threaded rods



■ Floor fixing with stand

Stand
Cat. Nos. **0364 36/37**
(H 1203/1603 mm)

Anti-tipping crosspieces
Cat. No. **0364 39**
(optional)

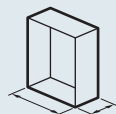


Stand Cat. No. 0364 37 is supplied with accessories to maintain IP 66 and Class II at the level of the passthrough fixing

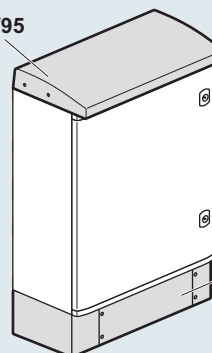
■ Floor fixing on plinth

H 170 mm (polyester RAL 7035)

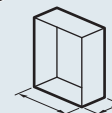
Roof RAL 7035
Cat. Nos. **0362 93/94/95**



500 x 250 mm
600 x 300 mm
800 x 300 mm



Plinth
Cat. No. **0362 91/92**



600 x 300 mm
800 x 300 mm

Marina free standing enclosures and equipment

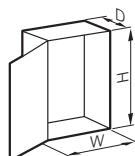
polyester (GRP) - IP 66 - IK 10



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

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



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

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

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

		Equipment		
		Plain plates		
		Galvanised steel. Premarked at 100 mm intervals		
		Permissible load : 200 kg/m ²		
		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

Pack	Cat. Nos.	Sectioned uprights	
		For Lina 25 rail, Lina 12.5 or Lina 25 plates	
		Set of 2 uprights galvanised steel	
		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

Pack	Cat. Nos.	Lifting accessories	
		Lifting brackets M14	
		Set of 4 brackets for max. load 500 kg/m ³	
		Supplied with blanking plates	
		Assembly and lifting enclosures kit :	
		- 2 support brackets	
		- screws	
		- weatherproof seal	
		For 500 kg/m ³ lifting, order separately	
		one set of 4 brackets Cat. No. 0362 46	

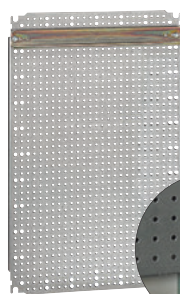
(1) Other barrels, see p. 28

universal plates for wall mounting enclosures

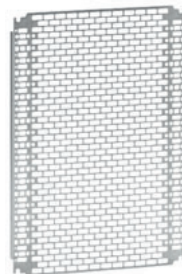
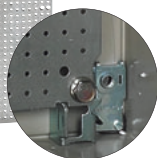
Atlantic-E, Atlantic stainless steel and Marina



0360 55



0360 22 with rail



0360 18



Technical information and dimensions (p. 24)

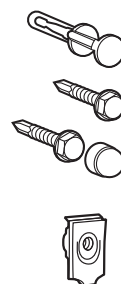
Fixing accessories are supplied in each enclosure

Pack	Cat. Nos.	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		
		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 1000	14.4	1000 x 800
1	0360 64	1200 x 800	18.5	
1	0360 67 ⁽²⁾	1400 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)		
		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 1000	6.8	1000 x 600
1	0360 31	700 x 500	3.7	
1	0360 34	800 x 800	7	
1	0360 42	800 x 1000	9.2	1000 x 800
1	0360 46	1200 x 800	11.1	
1	0360 75	1400 x 800	13	

Pack	Cat. Nos.	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)	
		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

Pack	Cat. Nos.	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

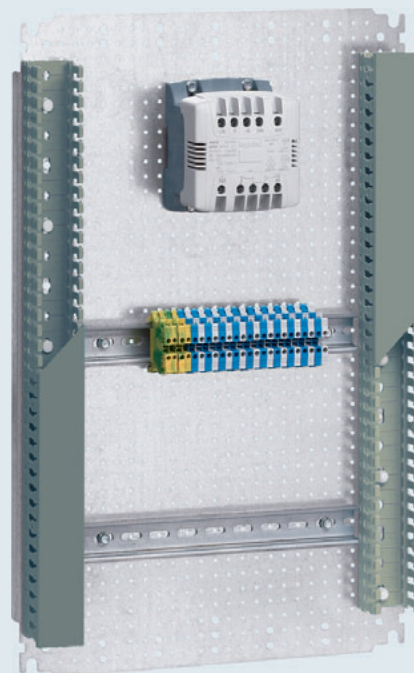
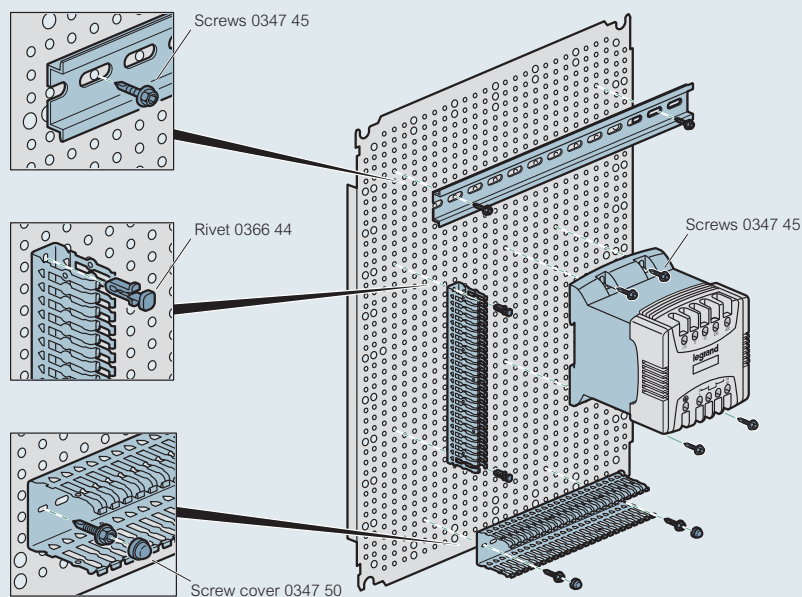


(1) For Marina enclosure only
(2) For Atlantic stainless steel enclosures only
(3) For Atlantic-E and Atlantic stainless steel enclosures

universal plates for wall mounting enclosures

Atlantic-E, Atlantic stainless steel and Marina

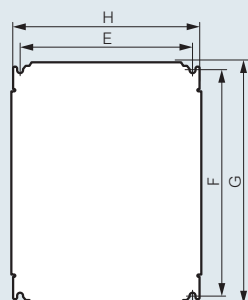
■ Mounting principle



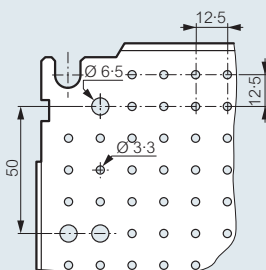
■ Dimensions

Plain plates, Lina 12-5 and Lina 25 perforated plates

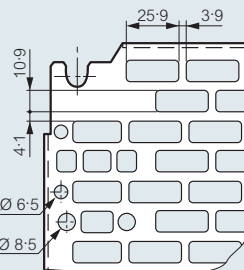
Plain plate



Lina 12-5 perforated plate



Lina 25 perforated plate

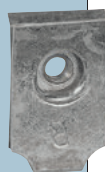


Fixing example on Lina 12-5 plate:

- of a transformer with screws Cat. No. 0347 45
- of a rail with Viking 3 terminals (p. 132)
- of Transcab panel trunking (p. 50)

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



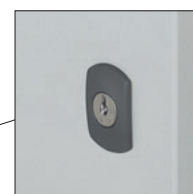
0361 03



0361 03 mounted in enclosure



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



Accept key barrel



Technical information and dimensions (p. 27)

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

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

Pack	Cat. Nos.	Internal doors
1	0363 59	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
1	0363 60	For enclosures (mm) H x W 400 x 300
1	0363 61	500 x 400
1	0363 62	600 x 400
1	0363 63	700 x 500
1	0363 64	800 x 600
1	0363 64	1 000 x 800
1	0363 65 ⁽¹⁾	1 200 x 800
		Dim. (mm) H x W 341 x 236
		441 x 336
		541 x 336
		642 x 436
		742 x 536
		942 x 736
		942 x 736
		Usable area (mm) H x W 305 x 185
		405 x 250
		505 x 250
		500 x 340
		600 x 440
		800 x 640
		800 x 640
1	0363 69	Accessory Mounting kit for Atlantic stainless steel enclosures

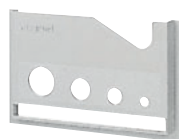
(1) Door identical to Cat. No. 0363 64 with 200 mm upper or lower reservation

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

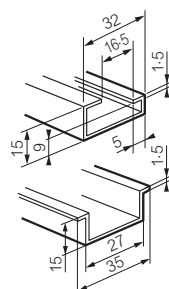


Technical information and dimensions (p. 27)

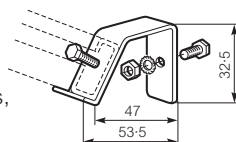
Pack	Cat. Nos.	Lina 25 sectioned uprights			
		Set of 2 sectioned uprights			
		For dimensions, see p. 27			
		For enclosures height (mm)	Length of uprights (mm)	Thickness (mm)	Profile
5	0361 50	300	237	2.5	
5	0361 51	400	337	2.5	
5	0361 52	500	437	2.5	
5	0361 53	600	537	2.5	
5	0361 54	700	637	2.5	
5	0361 55	800	737	2.5	
5	0361 56	1000	937	2.5	
5	0361 58	1200	1137	2.5	
5	0361 59	1400	1337	2.5	

		Lina 25 crosspieces	
		Crosspieces ready to assemble (excluding fixings)	
		For dimensions, see p. 27	
		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

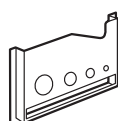
		Rails	
		2 m length For dimensions, see p. 27	
10	0374 02		EN 60715
10	0374 07		Symmetrical, depth 15 mm



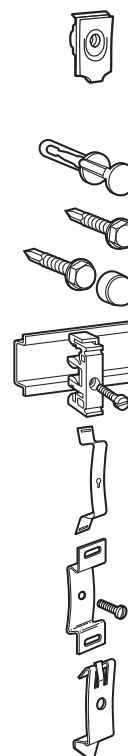
		45° mounting bracket	
10	0394 49	Set of 2 supports for tilting a rail at an angle of 45° Supplied with 4 x M6 screws, nuts and washers	



		Self-adhesive document pockets	
		RAL 7035	
		External dimensions (mm)	Internal dimensions (mm)
		Width x Height	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



Pack	Cat. Nos.	Fixing accessories
		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

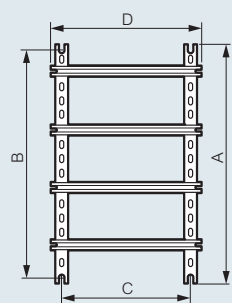


Lina perforated plates (see p. 23)

equipment and fixing accessories for wall mounting enclosures

Atlantic-E, Atlantic stainless steel and Marina

■ Assembled chassis with crosspieces and Lina 25 uprights

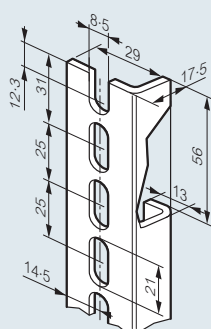
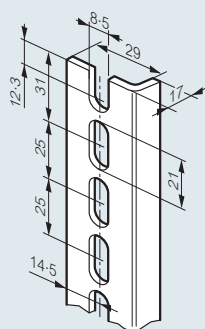


Enclosure dimensions Height x Width (mm)	Crosspiece length	Crosspiece length	Chassis fixing	
	A (mm)	D (mm)	B (mm)	C (mm)
300 x 300	237	243	225	225
300 x 400	237	343	225	325
400 x 300	337	243	325	225
400 x 400	337	343	325	325
400 x 600	337	543	325	525
500 x 400	437	343	425	325
500 x 500	437	443	425	425
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

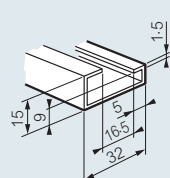
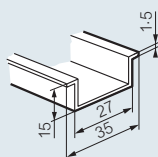
Cat. Nos. 0361 50/51/52/53/54/55/56

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

Lock housings for rebate or cylinder locks

Pack	Cat. Nos.	
10	0368 04	Interchangeable for Atlantic stainless steel and Marina enclosures
10	0368 05	Plastic housing (excludes barrel and cam)
10	0368 06	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

Lock barrels

6-5 mm triangle male
Cat. No. 0368 17

8 mm male triangle
Cat. No. 0368 18

11 mm male triangle
Cat. No. 0368 19

Double bar
Cat. No. 0368 20

Key barrels

No. 405
Cat. No. 0368 22

No. 421
Cat. No. 0368 23

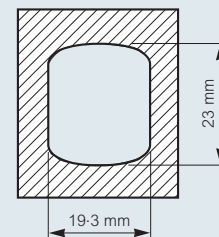
No. 455
Cat. No. 0368 24

1242 E
Cat. No. 0368 25

2433 A
Cat. No. 0368 26

3113 A
Cat. No. 0368 27

Detail of cut-out



Handle

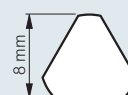
Plastic housing

Dimensions of special triangle locks

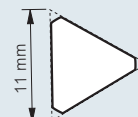
6-5 mm male
CNOMO



8 mm male



11 mm male



(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)

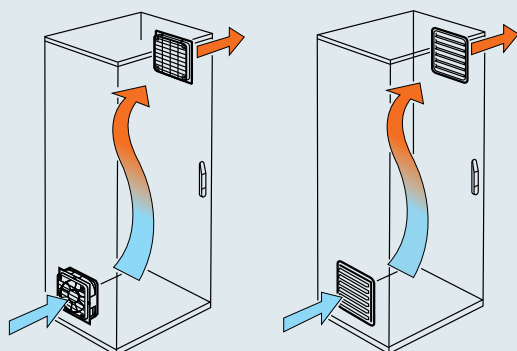
Pack	Cat. Nos.	Ventilation fan kit with metal grill
1	0348 17	IP 32 - IK 10 230 V - 50/60 Hz RAL 7035 Ventilator is mounted on the outside of the enclosure 30 m³/h with filter - 160 m³/h without filter installed (free flowing) Pack comprising a pair of metal RAL 7035 louvres and a pair of anti-insect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

Pack	Cat. Nos.	Ventilation fan kits with plastic grill
1	0348 50	IP 54 - IK 08 230 V - 50/60 Hz RAL 7035 plastic housing Supplied with finger protection guards External projection 7-10 mm Accepts mounting spacer Cat. No. 0348 88/89 Used to reduce internal projection and improve wiring space Fitted externally on to the enclosure with rapid fix screws 1 mm to 4 mm panel thickness An extra louver can be fitted to improve air flow and extraction 40/160 m³/h 40 m³ with filter 160 m³ with extra grill/filter Cat. No. 0348 34 160 m³ without filter installed (free flowing) 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 120 m³ with filter 130 m³ with extra grill/filter Cat. No. 0348 35 160 m³ without filter installed (free flowing) 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 240 m³ with filter 260 m³ with extra grill/filter Cat. No. 0348 35 450 m³ without filter installed (free flowing) 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
1	0348 88	IP 54 maintained
1	0348 89	RAL 7035 Used to reduce the internal projection and increase the internal usable volume 150 x 150 mm 250 x 250 mm

Pack	Cat. Nos.	Natural ventilation
2	0365 78	Ventilation glands
2	0365 79	IP 44 - IK 08 for outdoor use Grey polyamide Ø 15 mm aperture needed Ø 30.5 mm aperture needed
1	0348 04	Ventilation louvres - metal
1	0348 05	IP 32 - IK 10 RAL 7035 Pack comprising a pair of metal louvres and a pair of anti-insect grills 138 x 138 mm 248 x 248 mm
1	0348 34	Ventilation louvres - plastic
1	0348 35	RAL 7035 Supplied singly Supplied with 10 mm thick filter EU 3, G3 IP 44 - 150 x 150 mm
1	0348 36	Supplied with 20 mm thick filter EU 3, G3 IP 54 - 250 x 250 mm IP 54 - 325 x 325 mm

■ Operating principle



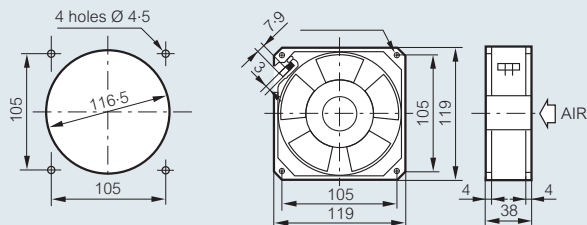
Ventilators,
louvres and
spacers

Natural
ventilation

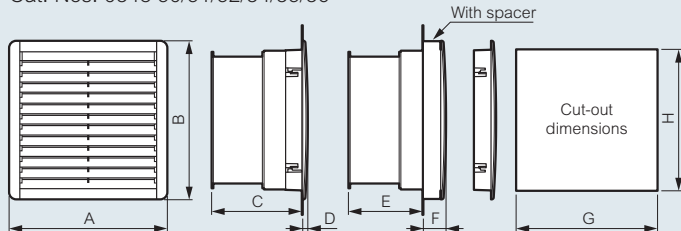
■ Ventilation fan kits, louvres and spacers

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

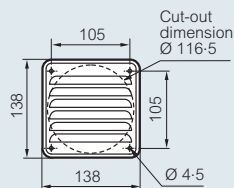
Technical characteristics

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 drawn (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

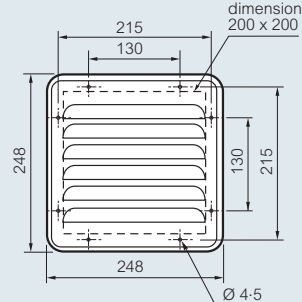
■ Natural ventilation

Dimensions and cut-outs

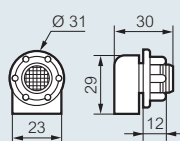
Cat. No. 0348 04



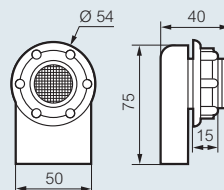
Cat. No. 0348 05



Cat. No. 0365 78



Cat. No. 0365 79



heating for enclosures



0353 08



0348 47

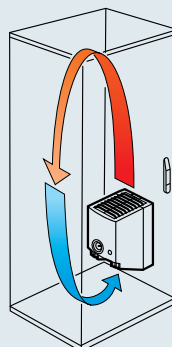


Technical information and dimensions (opposite)

Pack	Cat. Nos.	Heating										
		Resistance heaters 120 V / 240 V ~										
		IP 20 Prevent condensation forming inside the enclosure “ PTC ” auto-regulated and surface temperature limited : t = 70 °C Heat dissipator in black aluminium oxide Fix on rail 										
		<table><tr><th>Power</th><th>Current rating</th></tr><tr><td>20 W</td><td>2.5 A</td></tr><tr><td>50 W</td><td>2.5 A</td></tr><tr><td>100 W</td><td>4.5 A</td></tr><tr><td>150 W</td><td>8.0 A</td></tr></table>	Power	Current rating	20 W	2.5 A	50 W	2.5 A	100 W	4.5 A	150 W	8.0 A
Power	Current rating											
20 W	2.5 A											
50 W	2.5 A											
100 W	4.5 A											
150 W	8.0 A											
1	0353 06											
1	0353 07											
1	0353 08											
1	0353 09											
		Thermostat										
		Precision 0.5 °C (neutral connected) Switching and control range : 2 °C 230 V - 50/60 Hz 12 to 250 V ~ (requires neutral) Contact rating : 10 A max. (5 A closing) NO contact : 10 A, 250 V ~ NC contact : 5 A, 250 V ~ Adjustable from 5 to 60 °C with NO/NC contact										
1	0348 47	Fix on rail 										

heating for enclosures

Operating principle

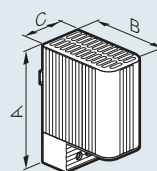


Heating

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

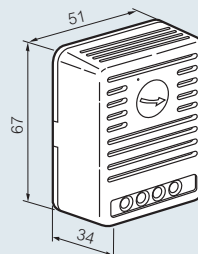
Vertical installation at the bottom of the enclosure

Air circulation :

- ensure clearance $>50\text{ mm}$ all round the device
- do not cover

Resistance heaters

Cat. No. 0348 47



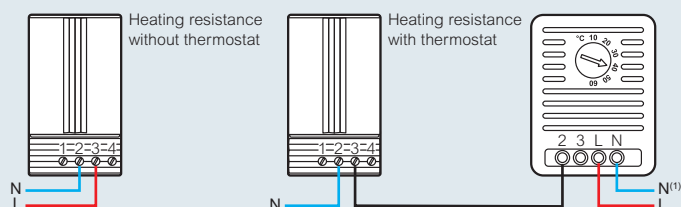
Vertical installation at the bottom of the enclosure

Recommended clearance around heat regulation products for optimal air circulation :

- ensure clearance $>50\text{ mm}$ all round the device
- do not cover

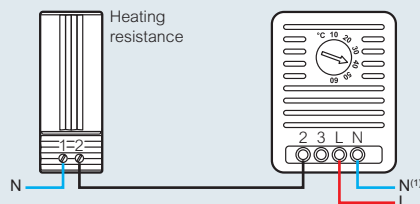
Wiring diagram

Cat. Nos. 0353 07/08/09



Cat. No. 0353 06

Thermostat Cat. No. 0348 47



(1) Connection accelerating resistance

ventilation and heating for enclosures

■ Technical information

Three factors should be considered :

- The surface area of the enclosure : Sc (m^2)
- The maximum permissible temperature : Δt ($^{\circ}C$)
- 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)	Dimensions (mm) Height x Width x Depth	Sc (m^2)
300 x 200 x 160	0.15	600 x 600 x 300	0.76
300 x 300 x 200	0.28	700 x 500 x 300	0.79
300 x 400 x 200	0.28	800 x 600 x 300	0.78
400 x 300 x 200	0.25	800 x 800 x 300	0.95
400 x 400 x 200	0.32	800 x 1000 x 300	1.08
500 x 400 x 200	0.35	1000 x 600 x 300	0.86
600 x 400 x 200	0.36	1000 x 800 x 300	1.05
400 x 600 x 250	0.46	1000 x 1000 x 300	1.16
500 x 400 x 250	0.41	1200 x 800 x 300	1.15
500 x 500 x 250	0.47	1200 x 1000 x 300	1.36
600 x 400 x 250	0.46	1200 x 1200 x 300	1.55
600 x 600 x 250	0.61	1400 x 1000 x 300	1.41
700 x 500 x 250	0.56	600 x 600 x 400	0.79
800 x 600 x 250	0.71	800 x 600 x 400	1.07
800 x 800 x 250	0.87	1000 x 800 x 400	1.55
800 x 1000 x 250	0.97	1200 x 800 x 400	1.33
1000 x 600 x 250	0.77	1200 x 1200 x 400	1.75
1000 x 800 x 250	0.96	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 ($^{\circ}C$), 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

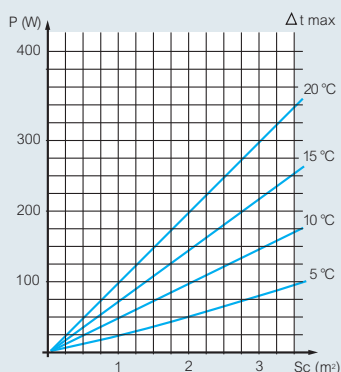
■ Ventilation

The curves below enable the user to determine whether the enclosure must have a ventilation system, based on 3 parameters :

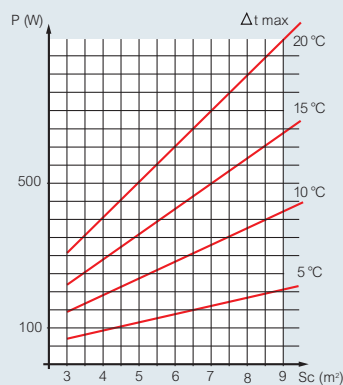
- Δt $^{\circ}C$ between t° ambient and t° maximum to be obtained at the hottest point
- power dissipated in watts [P (W)]
- effective surface area of enclosure Sc

Natural dissipation for an unequipped enclosure

Sc up to $3 m^2$



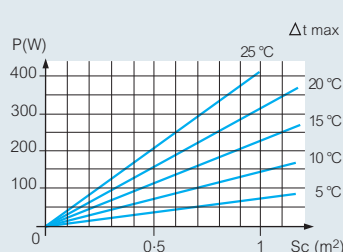
Sc above $3 m^2$



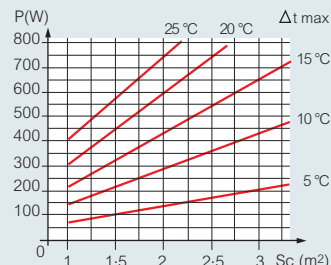
■ Heating

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

IP 65 - IK 09

NEW



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

Pack	Cat. Nos.	Enclosures 2 to 8 modules	
		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

Pack	Cat. Nos.	Enclosures 12 modules per row	
		Number of rows	Number of modules
1	6019 81	1	12
1	6019 82	2	24
1	6019 83	3	36

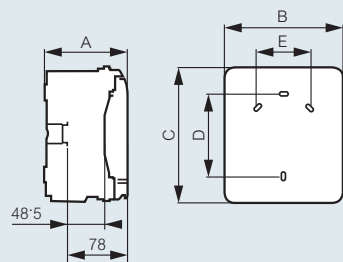
Pack	Cat. Nos.	Enclosures 18 modules per row	
		Number of rows	Number of modules
1	6019 85	1	18
1	6019 86	2	36
1	6019 87	3	54
1	6019 88	4	72

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



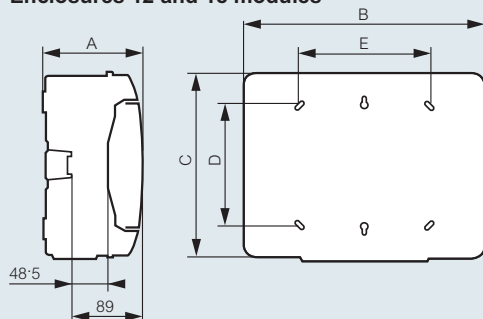
■ Dimensions

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

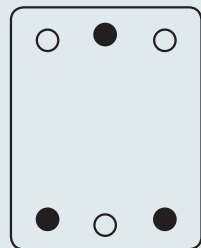
■ Fixing centres

Fixing the enclosure on the wall

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

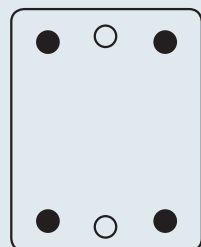
Hanging fixing

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 Plexo ³ 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

IP 30 - IK 05

Conform to IEC 60439-3

White RAL 9010

Self-extinguishing

Supplied with terminal block (box for 6 modules or more)

Covers can be sealed and clipped on directly
(except for box for 9 modules)

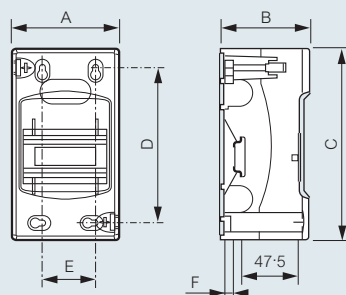
Pack	Cat. Nos.	Capacity in 17.5 mm modules	Dimensions (mm) Height x Width x Depth
10	0013 01	1	140 x 30 x 72
10	0013 02	2	140 x 50 x 72
10	0013 04	4	160 x 90 x 74
5	0013 06	6	160 x 128 x 74
1	0013 08	(8 + 1)	180 x 190 x 83
10	0013 98	Membrane gland for boxes Cat. Nos. 0013 01 to 08	

terminal shield boxes

with rail

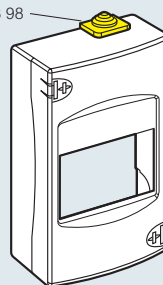
■ Dimensions

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

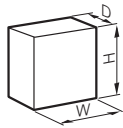
Cat. No. 0013 98



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		With IP 55 plain hinged covers - 2 x 1/4 turn fixings	With IP 66 plain covers	Mounting plates	Hinge kit accessories
			Plain	Transparent				
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

Weatherproof boxes – round

Pack	Cat. Nos.	
		With fixing slots for easy alignment Use 5 mm Ø screws Clip-on cover Nominal internal dimensions : Ø x Depth
5	0921 00	Ø 60 mm x 40 mm 4 glands
5	0921 01	Ø 70 mm x 45 mm 4 glands

Weatherproof boxes – square

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

Weatherproof boxes – square class II

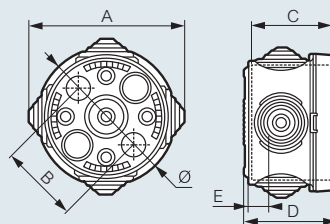
		Mounting by : • either internal fixing points - use 5 mm Ø screws • or at three corners outside the wiring area Use 4 mm Ø screws Provision for anti-tamper seal Cover with 4 x 1/4 turn fixings, indicated I-O, can be retained open during installation Nominal internal dimensions : Height x Width x Depth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

Plexo weatherproof boxes

IP 55 - IK 07

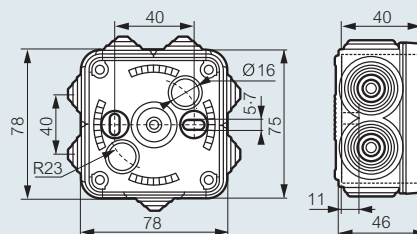
■ Dimensions (mm)

Cat. Nos. 0921 00 and 0921 01

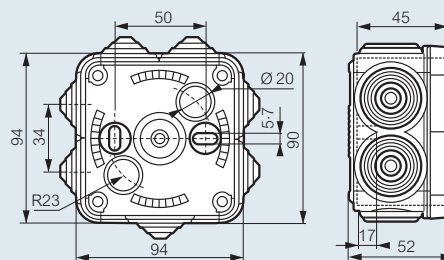


Cat. Nos.	Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
0921 00	60	79	40	44.5	40	11
0921 01	70	86	50	49.5	45	11

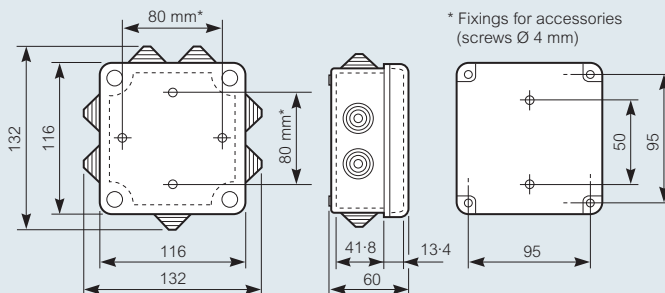
Cat. No. 0921 04



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

		Weatherproof boxes – class II
		Self-extinguishing 750 °C Polypropylene box Plain cover : polypropylene⁽³⁾ Transparent cover : polycarbonate Halogen free Class II protection ensured by the mounting screw protection plugs Detachable clip-on cover retainer (except 310 x 240 and 360 x 270 boxes) Side mounts for IP 2X terminals provided (except for 130 x 75 x 74 mm boxes) 1/4 turn fixings to seal cover With fixing slots for easy alignment Option mounting equipment on rail or plain plate Nominal internal dimensions : Height x Width x Depth (mm)
	Cover	
	Plain	Transparent
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⁾	180 x 140 x 86
1	0359 60 ⁽¹⁾	220 x 170 x 86
1	0359 70 ⁽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



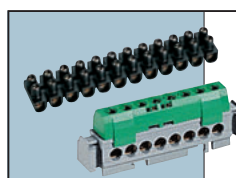
0358 02



Technical information and dimensions (p. 39)

Pack	Cat. Nos.	Weatherproof boxes – class II 500 V
		IP 66 - IK 08 Grey TO 29 Conform to EN 60695-2-1 Temperature rating : - 25 °C to + 80 °C Undrilled with smooth sides Self-extinguishing 750 °C Polycarbonate - halogen free Detachable clip-on cover retainer (except for 310 x 240 and 360 x 270 mm boxes) Side mounts for IP 2X terminals provided (except for 130 x 75 x 74 mm boxes) Sealable plain cover with captive 1/4 turn fixings Nominal internal dimensions : 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

		Accessories
		Metal mounting plates Galvanised steel - 1.5 mm thick 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⁾ UV protected polyamide in dark grey (RAL 7016) For box 130 x 130 mm to 270 x 170 mm For box 310 x 240 mm to 360 x 270 mm
1	0358 00	
1	0358 01	
1	0358 02	Set of 4 wall mounting brackets For boxes from width 110 mm For wall fixing, supplied with screws



For Nylbloc terminal strips and distribution blocks

see p. 41 and 42-45

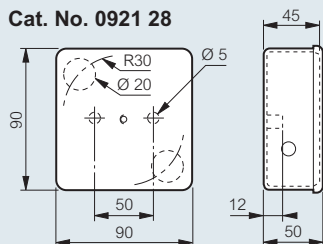
(1) Not suitable for PVC range

Plexo weatherproof boxes

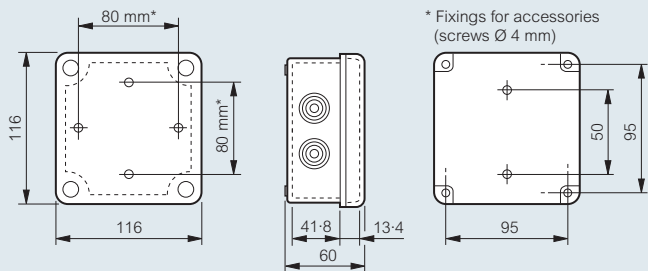
IP 55 - IK 07 and IP 66 - IK 08

■ Dimensions (mm)

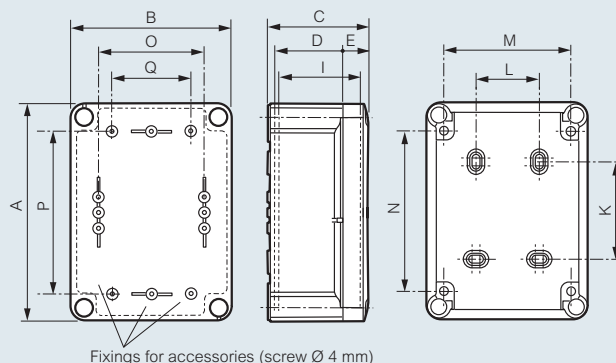
Cat. No. 0921 28



Cat. No. 0921 38



Boxes IP 55 – IK 07 and IP 66 – IK 08

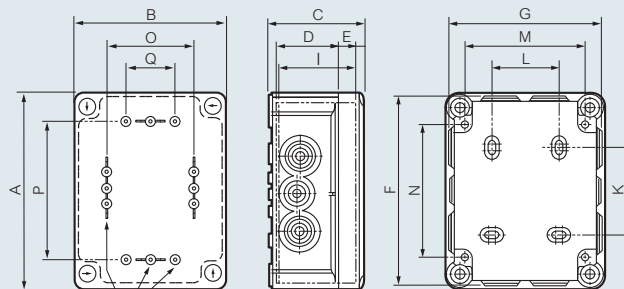


Fixings for accessories (screw Ø 4 mm)

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 0350 07 ⁽¹⁾	140	85	81	56	18	67	70	-	65	120	51	106	-
0359 30 0350 13	150	150	81	56	18	67	54	70	120	103	106	106	84
0359 40 0350 17	175	130	81	56	18	67	79	50	100	128	86	131	64
0359 50/51 0350 22	200	160	94	69	18	80	104	50	130	153	116	156	94
0359 60/61 0350 28	240	190	94	69	18	80	144	80	160	193	146	196	124
0359 70/71 0350 33	290	190	94	69	18	80	194	80	160	243	146	246	122
0359 80 0350 44	332	262	132	97	27	116	220	160	222	276	200	260	150
0359 90 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)

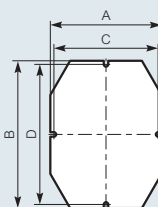
Cat. Nos. 0920 32 and 0920 42



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)

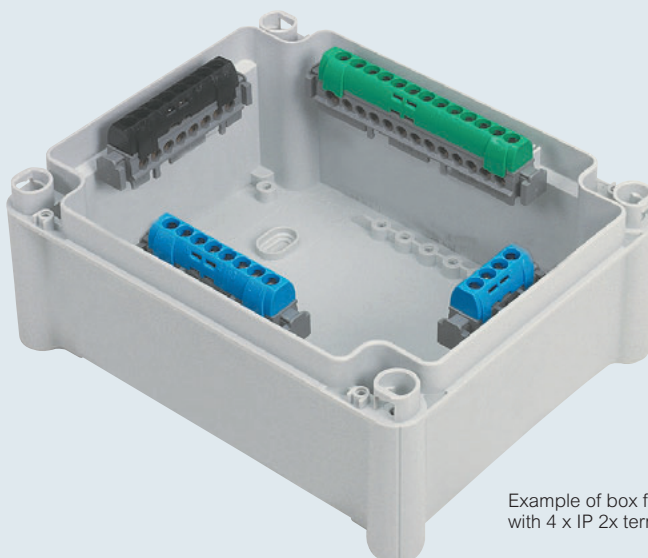
Not suitable for direct mounting on to PVC range nor 130 x 75 x 74 mm boxes

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
2	0921 22	Nominal internal dimensions : Height x Width x Depth (mm) Depth 140 mm IK 07 - IP 55 220 x 170 x 140 - (1/4 turn cover fixings)
2	0350 43	Depth 154 mm IK 08 - IP 55 265 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)
1	0922 84	Depth 160 mm IK 08 - IP 55 310 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

For PVC box size 310 x 240 mm only

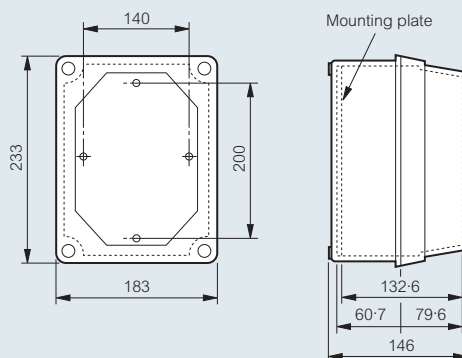
PVC boxes are not provided with side mounts for IP 2x terminals

Plexo weatherproof boxes

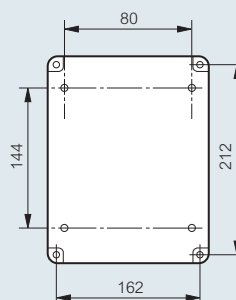
increased depth PVC range

■ Dimensions (mm)

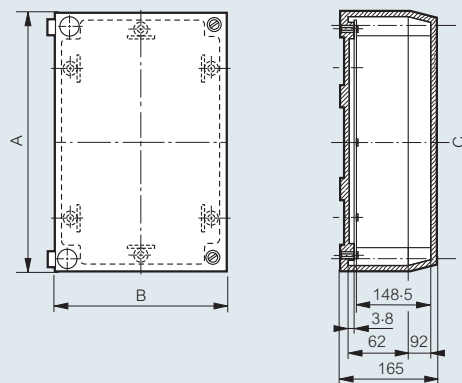
Cat. No. 0921 22



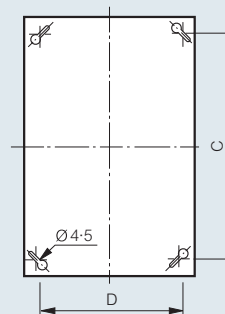
Fixing dimensions



Cat. Nos. 0350 43/58



Fixing dimensions



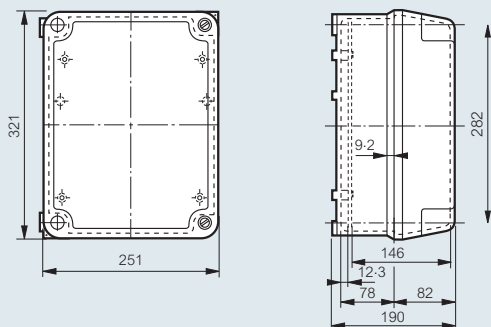
Cat. Nos.	Dimensions		Fixing points		Weight (kg)
	A (mm)	B (mm)	C (mm)	D (mm)	
0350 43	273	182	246	155	1.08
0350 58	367	273	340	246	1.80

Plexo weatherproof boxes

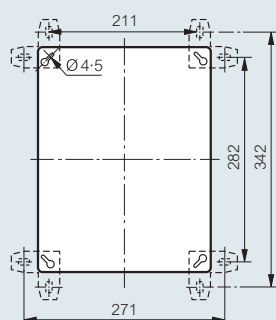
increased depth PVC range (continued)

■ Dimensions (mm)

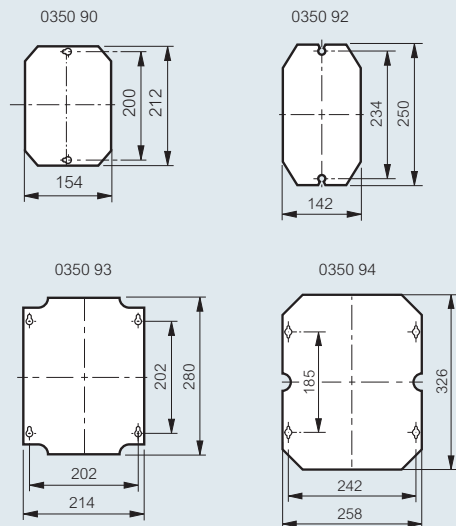
Cat. No. 0922 84



Fixing dimensions



■ Mounting plates for PVC boxes



terminal strips

Nylbloc



Pack	Cat. Nos.	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					
		Capacity (mm ²)	Nom. rating (A)	Diameter Ø	Current max. (A)	Dimensions (mm)	
	Black						
10	0342 11	4	2.5	2.5	24	15.6 x 94	12.3
10	0342 13	6	6	3.5	41	18 x 107	14.4
10	0342 15	10	10	4.5	57	20.8 x 135	17.4
10	0342 17	16	16	5.5	76	24.2 x 156	22.5
10	0342 19	25	25	7	101	33 x 214	27.5
	White						
10	0342 21	4	2.5	2.5	24	15.6 x 94	12.3
10	0342 23	6	6	3.5	41	18 x 107	14.4
10	0342 25	10	10	4.5	57	20.8 x 135	17.4
10	0342 27	16	16	5.5	76	24.2 x 156	22.5



For Plexo weatherproof boxes

see p. 36-40

distribution terminal blocks



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

Pack	Cat. Nos.	Unshrouded terminal blocks		
		Fix using M4 dia. screw		
10	0048 01	Incoming capacity	Outgoing capacity	Terminal length (mm)
10	0048 03	1 x 6 to 25 mm ²	4 x 1.5 to 16 mm ²	45
10	0048 05	1 x 6 to 25 mm ²	8 x 1.5 to 16 mm ²	73
10	0048 06	1 x 6 to 25 mm ²	14 x 1.5 to 16 mm ²	122
10	0048 07	1 x 6 to 25 mm ²	19 x 1.5 to 16 mm ²	157
10	0048 07	1 x 6 to 25 mm ²	24 x 1.5 to 16 mm ²	192

Pack	Cat. Nos.	Partly shrouded terminal blocks on base		
		For fixing to 12 x 2 mm rail Supplied with Duplex markers ⁽¹⁾		
10	0048 20 ⁽¹⁾	Incoming capacity	Outgoing capacity	Terminal length (mm)
10	0048 22 ⁽¹⁾⁽²⁾	—	4 x 1.5 to 16 mm ²	47
10	0048 24 ⁽¹⁾⁽²⁾	—	8 x 1.5 to 16 mm ²	75
10	0048 25 ⁽¹⁾	1 x 6 to 25 mm ²	12 x 1.5 to 16 mm ²	113
10	0048 25 ⁽¹⁾	1 x 6 to 25 mm ²	16 x 1.5 to 16 mm ²	141

Pack	Phase (black)	Neutral (blue)	Fully shrouded terminal blocks providing finger protection IP 2x		
			For fixing to 12 x 2 mm rail		
10	0048 50	0048 40	Incoming capacity	Outgoing capacity	Terminal length (mm)
10	0048 52 ⁽²⁾	0048 42 ⁽²⁾	—	4 x 1.5 to 16 mm ²	47
10	0048 54 ⁽²⁾	0048 44 ⁽²⁾	—	8 x 1.5 to 16 mm ²	75
10	0048 55	0048 45	1 x 6 to 25 mm ²	12 x 1.5 to 16 mm ²	113
10	0048 56	0048 46	1 x 6 to 25 mm ²	16 x 1.5 to 16 mm ²	141
10	0048 58	0048 48	1 x 6 to 25 mm ²	21 x 1.5 to 16 mm ²	176
10	0048 58	0048 48	2 x 6 to 25 mm ²	33 x 1.5 to 16 mm ²	276
10	Earth (green)		—	4 x 1.5 to 16 mm ²	47
10	0048 30		—	8 x 1.5 to 16 mm ²	75
10	0048 32 ⁽²⁾		—	8 x 1.5 to 16 mm ²	75
10	0048 34 ⁽²⁾		1 x 6 to 25 mm ²	12 x 1.5 to 16 mm ²	113
10	0048 35		1 x 6 to 25 mm ²	16 x 1.5 to 16 mm ²	141
10	0048 36		1 x 6 to 25 mm ²	21 x 1.5 to 16 mm ²	176
10	0048 38		2 x 6 to 25 mm ²	33 x 1.5 to 16 mm ²	276

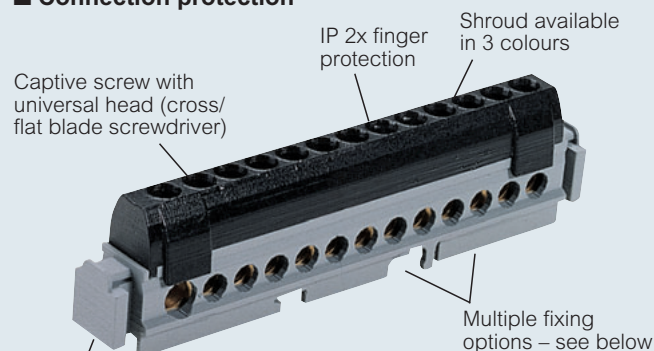
Pack	Cat. Nos.	Fully shrouded terminal blocks 3 phase + neutral (3 black + 1 blue)		
1	0048 14	Incoming capacity	Outgoing capacity	Terminal length (mm)
		Neutral x 1		
		1 x 4 to 25 mm ²	12 x 1.5 to 16 mm ²	227
		Phase x 3		
		1 x 1.5 to 16 mm ²	3 x 1.5 to 16 mm ²	

Pack	Cat. Nos.	Supports for terminal blocks		
1	0048 10	Terminal side support 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 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 1 metre length of 12 x 2 mm terminal mounting rail - accepts partly and fully shrouded terminals		

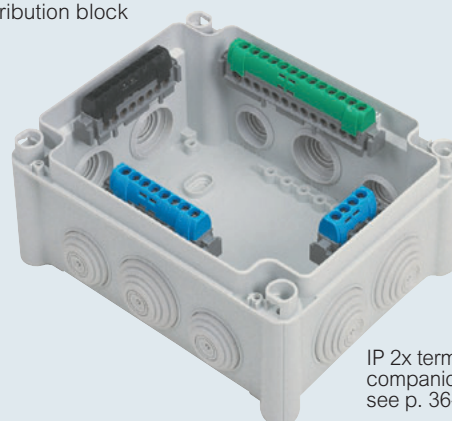
(1) Each terminal supplied with :
- 2 green Duplex markers (+) - 2 blue Duplex markers (N) - 2 red Duplex markers (L)
(2) Can be fixed directly to DIN rail without accessory

distribution terminal blocks

■ Connection protection

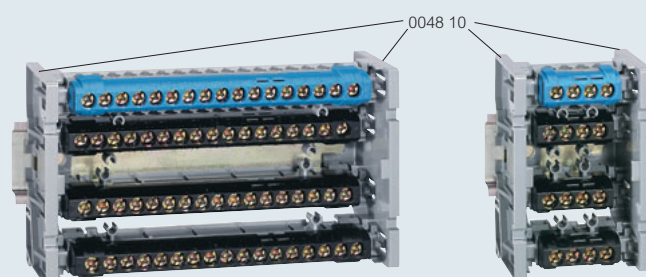


Fixes into side supports to construct a distribution block

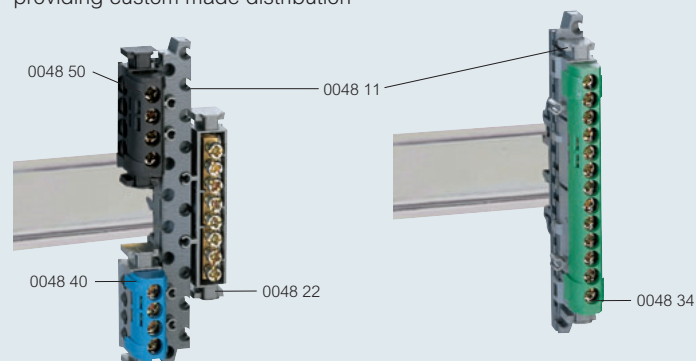


IP 2x terminals are the ideal companion for Plexo boxes, see p. 36-40

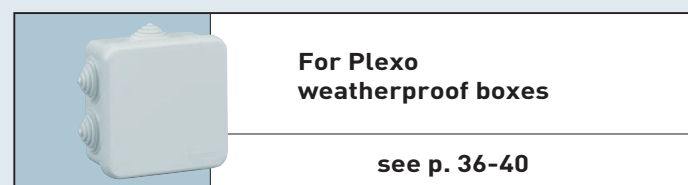
■ Use of terminal supports Cat. No. 0048 10



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

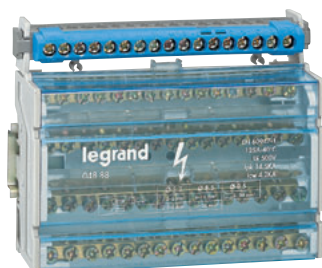


For Plexo weatherproof boxes

see p. 36-40

distribution blocks 40 to 160 A

modular style - rail or screw fixing



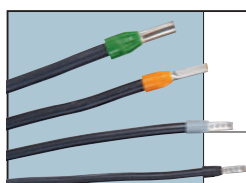
0048 88 + 0048 45



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

Pack	Cat. Nos.	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						
			Ways per bar	Capacity		Ipk peak withstand current (kA)	Icw (kA)	Number of modules
				rigid (mm ²)	flexible (mm ²)			
5	0048 81	40 A	11 2	1.5 to 4 6 to 16	0.75 to 4 4 to 10	20	3	6
10	0048 80	100 A	5 2	2.5 to 10 10 to 25	1.5 to 10 6 to 16	20	4.5	4
5	0048 82	125 A	11 2 2	2.5 to 10 10 to 25 10 to 35	1.5 to 10 6 to 16 10 to 25	18	4.5	8
		Four pole Equipped with 4 bars						
			Ways per bar	Capacity		Ipk peak withstand current (kA)	Icw (kA)	Number of modules
				rigid (mm ²)	flexible (mm ²)			
5	0048 85	40 A	11 2	1.5 to 4 6 to 16	0.75 to 4 4 to 10	20	3	6
10	0048 84	100 A	5 2	2.5 to 10 10 to 25	1.5 to 10 6 to 16	20	4.5	4
5	0048 86	125 A	7 2 2	2.5 to 10 10 to 25 10 to 35	1.5 to 10 6 to 16 10 to 25	20	4.5	6
5	0048 88 ⁽¹⁾	125 A	11 4	2.5 to 10 10 to 35	1.5 to 10 6 to 25 ⁽¹⁾	14.5	4.2	8
1	0048 79 ⁽¹⁾	160 A	1 8 4 2	35 to 70 2.5 to 10 10 to 25 10 to 35	35 to 70 1.5 to 10 6 to 16 10 to 25 ⁽¹⁾	27	8.4	10



For CAB 3 markers and Starfix ferrules

see p. 154-156 and 160-161

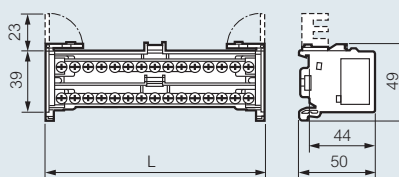
(1) Supplied with short ferrule

distribution blocks 40 to 160 A

modular style - rail or screw fixing

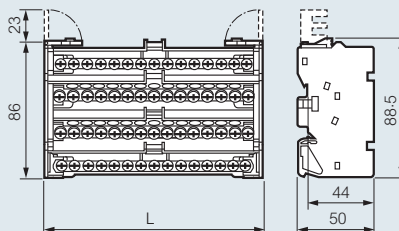
■ Dimensions

Double pole 40 - 100 - 125 A

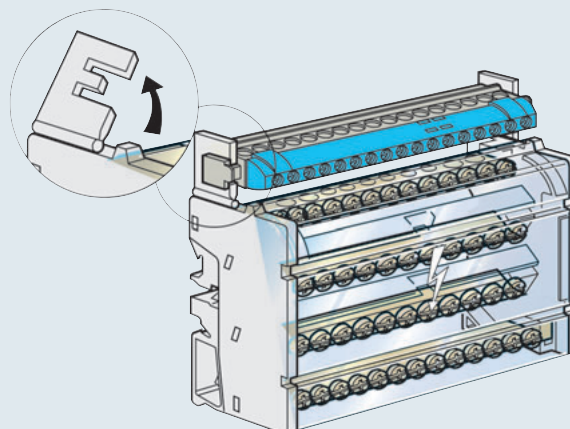
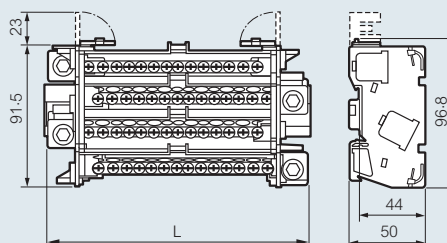


Cat. Nos.	Length (L)
0048 80	70
0048 81	105
0048 82	140
0048 84	70
0048 85	105
0048 86	105
0048 88	140
0048 79	179

Four pole 40 - 100 - 125 A



Four pole 160 A



0048 88 + 0048 45

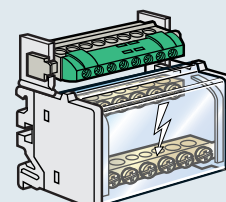
Extend your wiring capability using IP 2x fully shrouded terminals on the following :

(see p. 42)

Distribution block Cat. Nos.	IP 2x Terminal	Characteristics Voltage	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

(1) (green cover)

(2) (Neutral (blue cover))



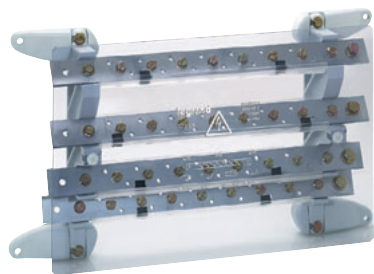
0048 80 + 0048 32

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) Ipk peak withstand current 25 kA Insulation voltage according to EN 60947-1/ IEC 60664-1 : 500 V Self-extinguishing : 960 °C Fix to  (15 mm high) or by M6 screws Four bars each equipped with : <table><tr><td>Incoming</td><td>Phase outgoing</td><td>Neutral outgoing</td></tr><tr><td>1 x 35 mm²</td><td>10 x 16 mm² M5 screw</td><td>17 x 16 mm² M5 screw</td></tr></table>		Incoming	Phase outgoing	Neutral outgoing	1 x 35 mm ²	10 x 16 mm ² M5 screw	17 x 16 mm ² M5 screw	No. of 17.5 mm modules 16			
Incoming	Phase outgoing	Neutral outgoing											
1 x 35 mm ²	10 x 16 mm ² M5 screw	17 x 16 mm ² M5 screw											
		Clamp connection possible using connector Cat. No. 0373 65 (p. 45)											
1	0374 00	250 A (75.5 mm depth) Ipk peak withstand current 60 kA Insulation voltage according to EN 60947-1/ IEC 60664-1 : 1 000 V Self-extinguishing : 960 °C Fix to mounting plate by M6 screws Four bars each equipped with : <table><tr><td>Incoming</td><td>either</td><td>Outgoing</td></tr><tr><td>150 mm²</td><td></td><td>1 x 70 mm² or 1 x 50 mm² plus 1 x 35 mm² or 2 x 35 mm²</td></tr><tr><td></td><td>or</td><td>1 connector Cat. No. 0374 03</td></tr></table>		Incoming	either	Outgoing	150 mm ²		1 x 70 mm ² or 1 x 50 mm ² plus 1 x 35 mm ² or 2 x 35 mm ²		or	1 connector Cat. No. 0374 03	
Incoming	either	Outgoing											
150 mm ²		1 x 70 mm ² or 1 x 50 mm ² plus 1 x 35 mm ² or 2 x 35 mm ²											
	or	1 connector Cat. No. 0374 03											
1	0374 03	Connector for Cat. No. 0374 00 converts outgoing terminal to : • 1 x 1.5 to 6 mm² Ø 5.3 mm • 2 x 6 to 16 mm² Ø 7.5 mm Dimensions : 29 x 29 x 16.8 mm											

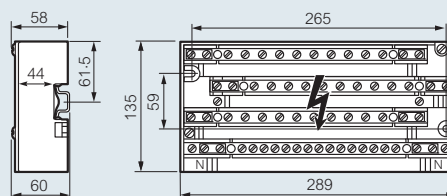
Stepped distribution blocks for lugs						
1	0373 95	125 A (77 mm depth) Fix to  (15 mm high) or by M4 screws Four 12 x 4 mm bars each equipped with : • Five 2 x 10 mm² claw connectors per bar (not mounted)				
1	0374 30	125 A (125 mm depth) Fix to mounting plate by M6 screws Four 15 x 4 mm bars each equipped with : <table><tr><td>Incoming</td><td>Outgoing</td></tr><tr><td>1 x 35 mm² - M8 screw</td><td>5 x 25 mm² - M6 screw</td></tr></table>	Incoming	Outgoing	1 x 35 mm ² - M8 screw	5 x 25 mm ² - M6 screw
Incoming	Outgoing					
1 x 35 mm ² - M8 screw	5 x 25 mm ² - M6 screw					
1	0374 31	160 A (125 mm depth) Fix to mounting plate by M6 screws Four 18 x 4 mm bars each equipped with : <table><tr><td>Incoming</td><td>Outgoing</td></tr><tr><td>1 x 70 mm² - M8 screw</td><td>5 x 35 mm² - M6 screw</td></tr></table>	Incoming	Outgoing	1 x 70 mm ² - M8 screw	5 x 35 mm ² - M6 screw
Incoming	Outgoing					
1 x 70 mm ² - M8 screw	5 x 35 mm ² - M6 screw					
1	0374 35	250 A (155 mm depth) Fix to mounting plate by M6 screws Four 25 x 4 mm bars each equipped with : <table><tr><td>Incoming</td><td>Outgoing</td></tr><tr><td>1 x 120 mm² - M10 screw</td><td>5 x 50 mm² - M8 screw</td></tr></table>	Incoming	Outgoing	1 x 120 mm ² - M10 screw	5 x 50 mm ² - M8 screw
Incoming	Outgoing					
1 x 120 mm ² - M10 screw	5 x 50 mm ² - M8 screw					
1	0373 08	400 A (107 mm depth) With front insulation sheet Four 32 x 5 mm bars equipped with : <table><tr><td>Incoming</td><td>Outgoing</td></tr><tr><td>2 x Ø8.5 mm holes for bar/flexible bar</td><td>21 x M6 holes for 70 mm² max cable lugs</td></tr></table>	Incoming	Outgoing	2 x Ø8.5 mm holes for bar/flexible bar	21 x M6 holes for 70 mm ² max cable lugs
Incoming	Outgoing					
2 x Ø8.5 mm holes for bar/flexible bar	21 x M6 holes for 70 mm ² max cable lugs					

distribution blocks 125 to 400 A

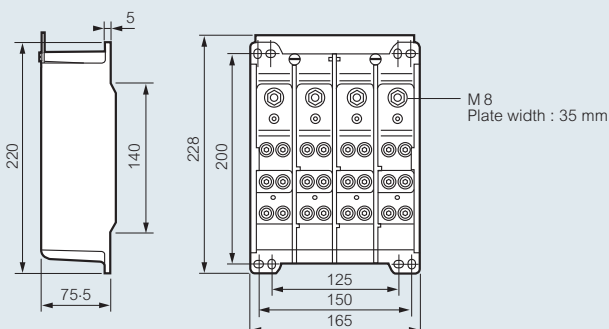
four pole

■ Extra-flat distribution blocks for lugs

125 A Cat. No. 0374 47

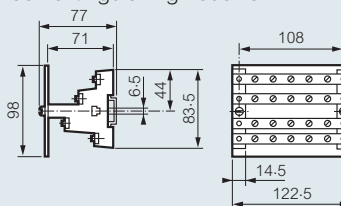


250 A Cat. No. 0374 00

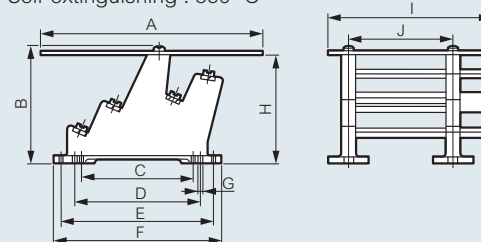


■ Stepped distribution blocks for lugs

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



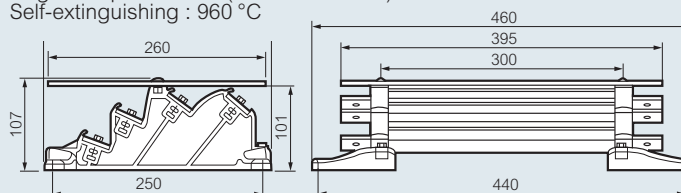
125/160/250 A Cat. Nos. 0374 30/31/35 - lpk peak withstand current 35 kA
 Insulation voltage according to EN 60947-1/IEC 60664-1 : 1 000 V
 Impulse (surge) voltage (Uimp) : 12 kV
 Degree of pollution : 3 (conductive dust)
 Self-extinguishing : 850 °C



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 - lpk 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



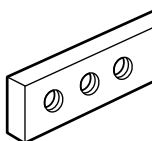
Insulated supports (maximum 280 A)

Pack	Cat. Nos.		
5	0373 96	Set of 2 insulated 4 pole supports For bars 12 x 2 or 12 x 4 mm	Mounting type DIN rail 0044 16 supplied or M4 screws not supplied by M4 screws supplied
10	0373 98	Single pole supports For bars 12 x 2 or 12 x 4 mm	
10	0374 37	For bars 15 x 4, 18 x 4 or 25 x 4 mm	

Copper connector bars

With threaded holes

		Size (mm)	Threaded holes Ø mm	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	1750



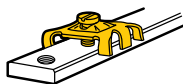
Connectors

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

For one or two conductors
1.5 to 10 mm² (supplied with Ø 5 mm screw)

Cage type – For bare 12 x 4 mm bars

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

10 0044 16 10 mm width
With threaded Ø 4 mm hole

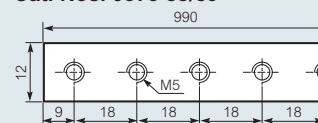


distribution blocks

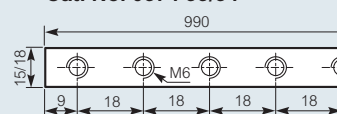
self assembly

■ Copper connector bars with threaded holes

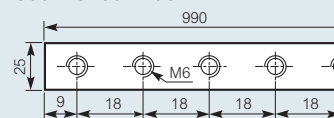
Cat. Nos. 0373 88/89



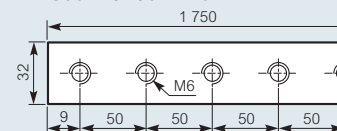
Cat. No. 0374 33/34



Cat. No. 0374 38



Cat. No. 0374 19



Cat. Nos.	Size	lthe (A)	lc (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 :

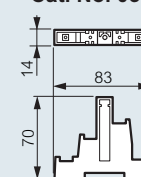
- lth : bars in free air
- lthe : bars enclosed with ventilation
- lc : bars totally enclosed in a weatherproof enclosure

■ 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

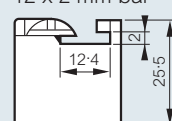


■ Insulated supports single pole

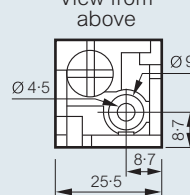
Insulation voltage according to EN 60947-1/IEC 60664-1 : 500 V
 Impulse voltage (surge) (Uimp) : 8 kV
 Degree of pollution (conductive dust) : 3

Cat. No. 0373 98

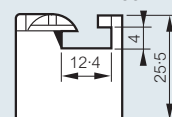
Front view for 12 x 2 mm bar



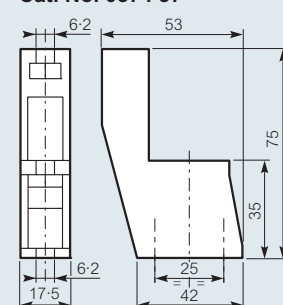
View from above



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

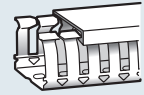
The distance between supports can be determined using the chart
 Select the peak withstand current (kA rating) and the distance between bars - dimension E (mm) after choosing your bar and support
 Distance between supports (mm)

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	–	–	–	–	–	–	–	–

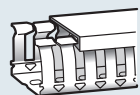


Transcab® open slot panel trunking

Transcab®



P. 50
Transcab
PVC panel
trunking



P. 50
Transcab
PC/ABS
halogen free
panel trunking



P. 50
Transcab
cutting tool



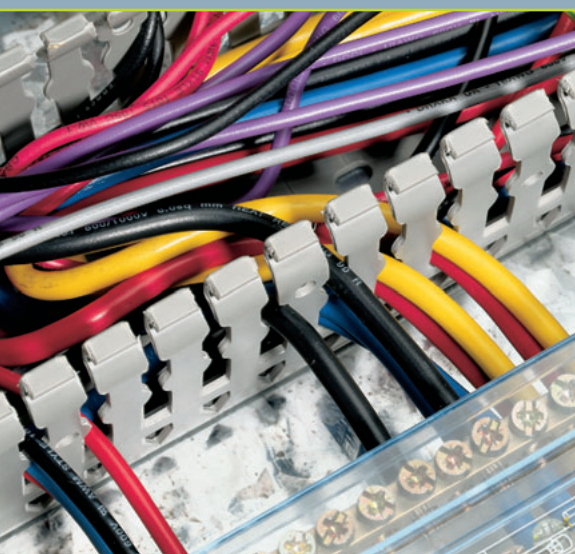
P. 50
Cable retainer,
marking and fixing
accessories and
braided sleeving



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.

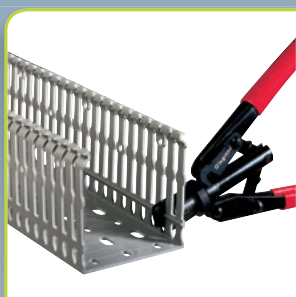
FEATURES

- **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

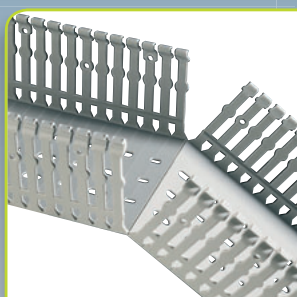
ACCESSORIES

- **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

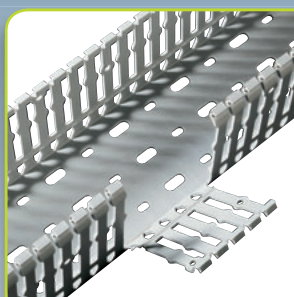




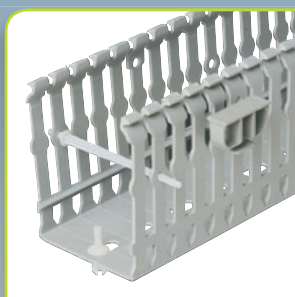
Using the specially designed tool, support bars can be easily and cleanly removed



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

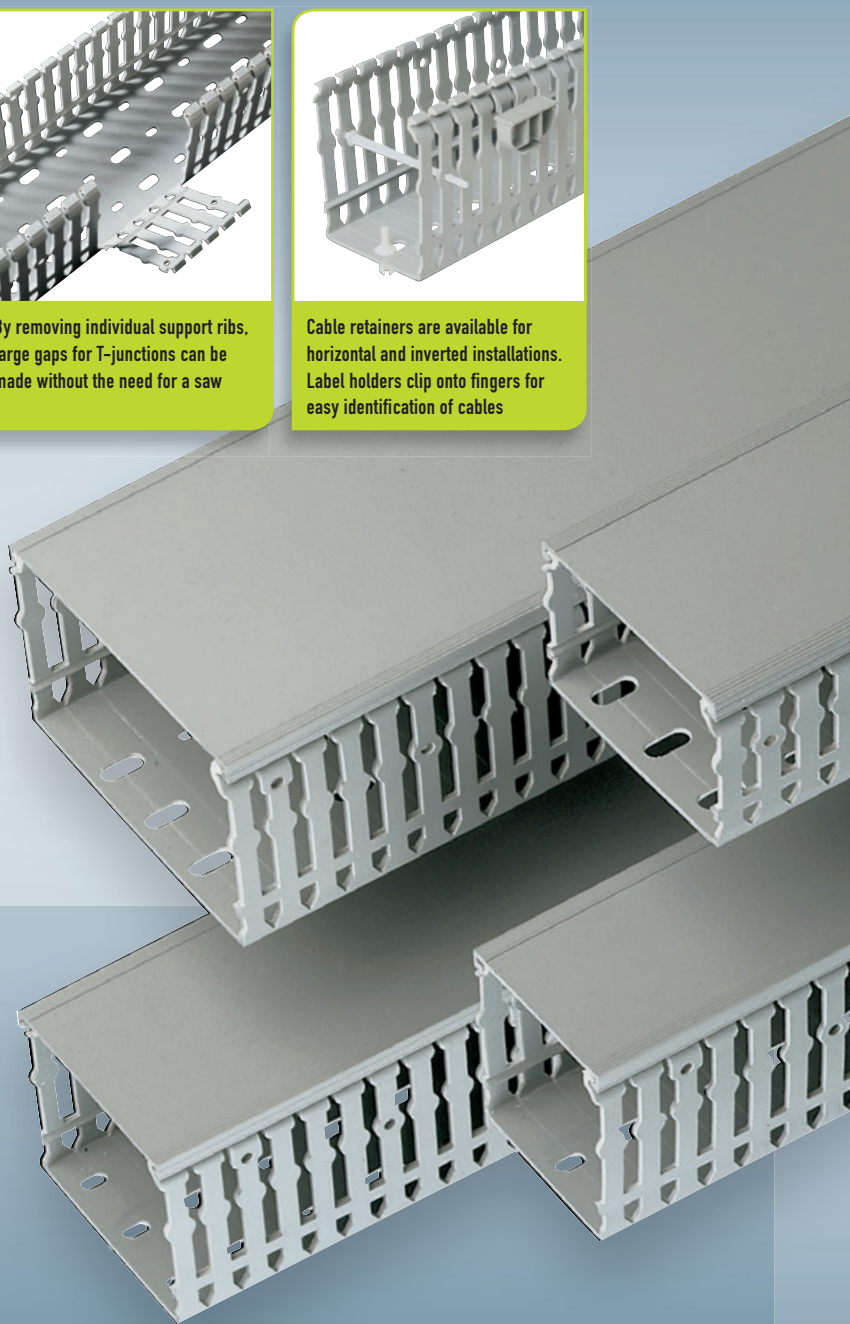
APPROVALS: EN 50085 Parts 2 and 3, UL and CSA

SLOTTING: Open with 6mm gaps

FLAMMABILITY: UL94 V-0 rated

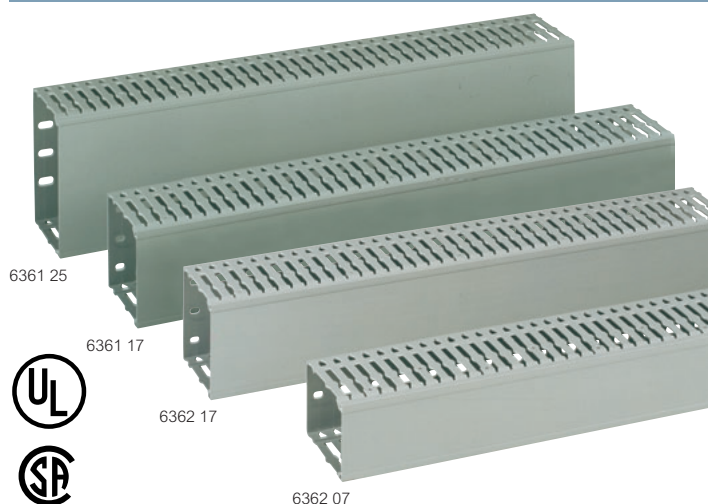
OPERATING TEMPERATURE: -5 to + 60°C

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

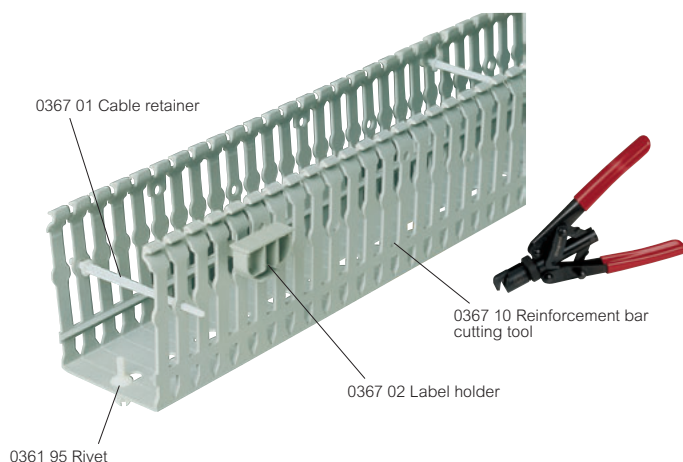
Pack Cat. Nos. Plastic panel trunking (base + cover)

Metres per pack	Cat. Nos.		Width x Height (mm)	Capacity (mm ²)
	PVC Grey RAL 7030	PC/ABS Grey RAL 7030 halogen free		
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

Cat. Nos.		Width (mm)	15 - also used for marking ⁽¹⁾
PVC	PC/ABS		
36	0370 10	25	
36	0370 11	40	
36	0370 12	60	
36	0370 13	80	
36	0370 14	100	
		150	

Transcab® accessories



Pack	Cat. Nos.	Transcab cutting tool
1	0367 10	Tool for cutting 6 mm reinforcement bar

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

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



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



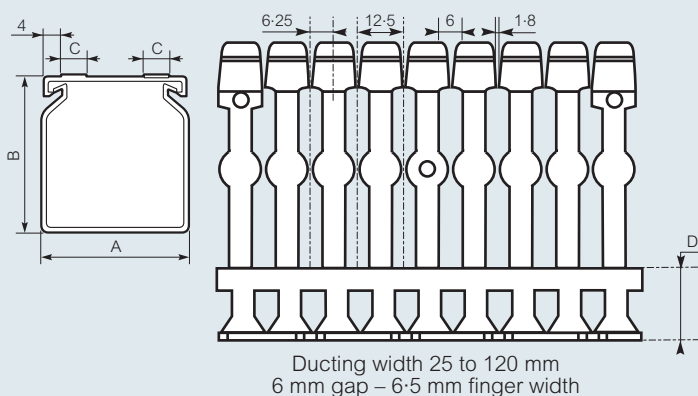
Pack	Cat. Nos.	Braided sleeving
1	0366 38	Ø 20 mm 10 - 30 mm
1	0366 39	Ø 30 mm 18 - 54 mm



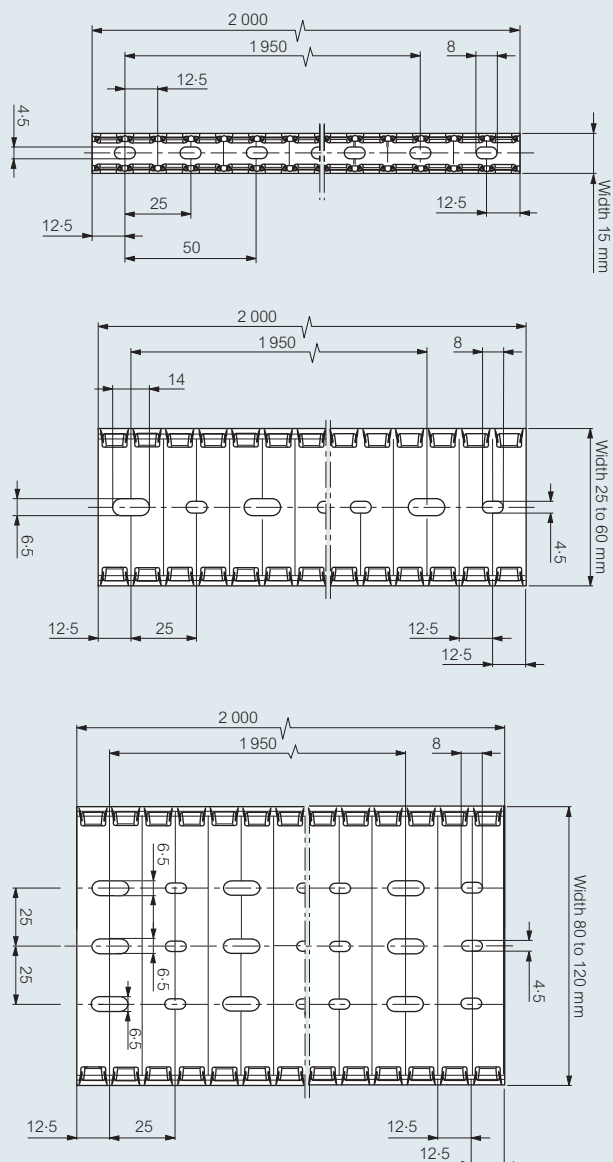
(1) Clips to label holder Cat. No. 0367 02

Transcab® open slot panel trunking

■ Dimensions



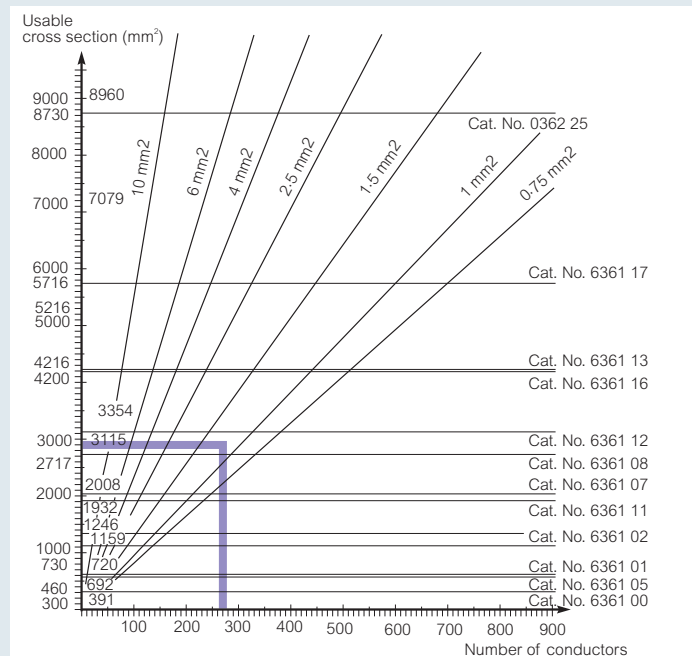
■ Detail of base perforations



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

Calculating the panel trunking usable cross section

Graph for H 05 V-K and H 07 V-K cables with 0.75 packing coefficient

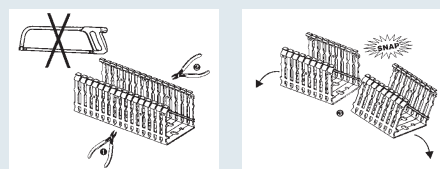


Example :

150 conductors 0.75 mm² → 1230 mm² cross section and
120 conductors 1.5 mm² → 1700 mm² cross section
Makes a total of 2930 mm²

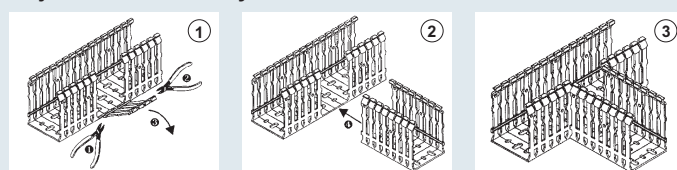
The correct panel trunking is Cat. No. 6361 12, 60 x 60 mm, with a capacity of 3115 mm²

Faster base build without a saw

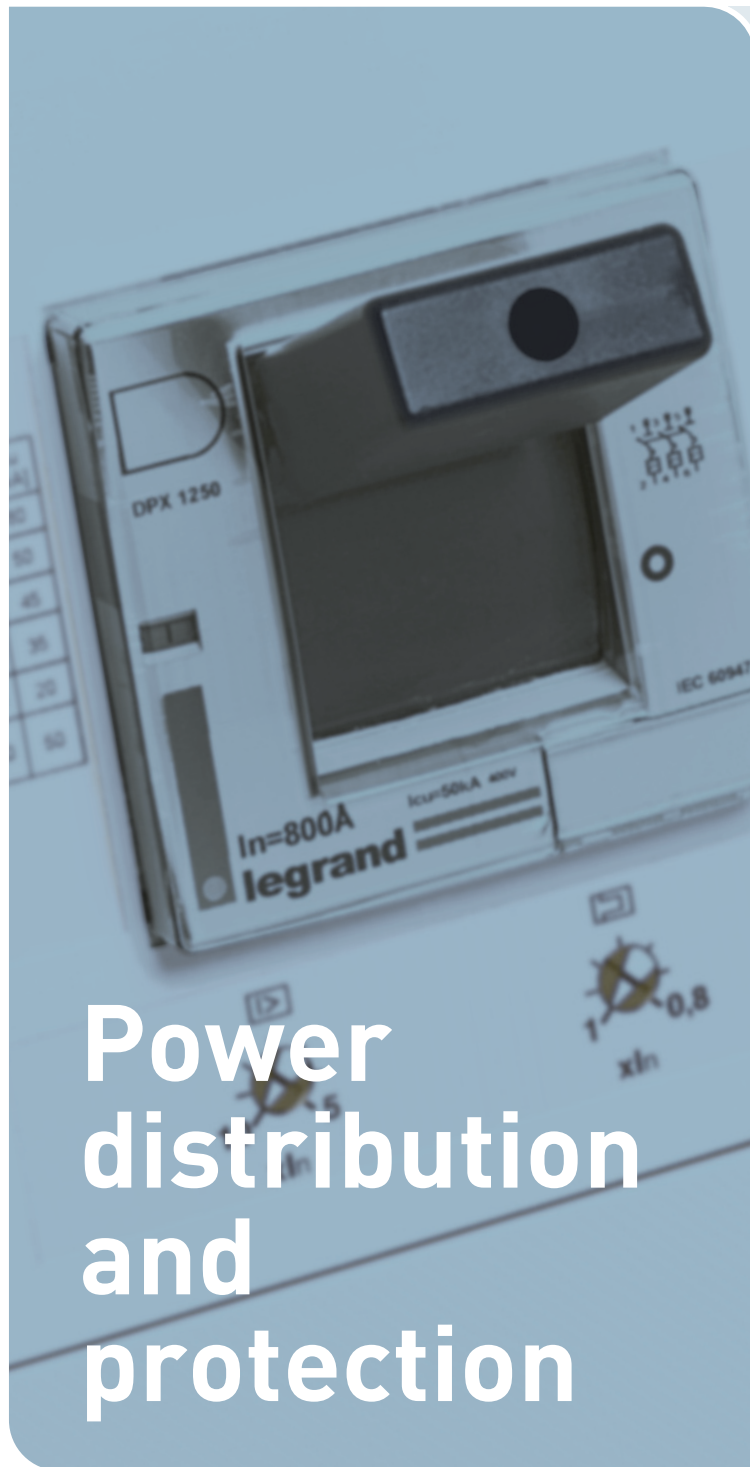


Remove reinforcement bars at required length and break

'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

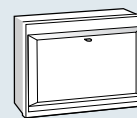


Power distribution and protection

Distribution boards



P. 56
Type B
distribution boards
selection chart

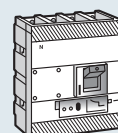


P. 61
Type A
distribution
boards

MCCB protection devices

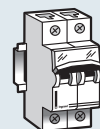


P. 62
DPX MCCBs
selection chart

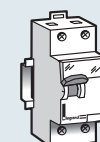


P. 68
DPX 1250
MCCBs

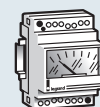
MCB/RCD/RCBO protection devices



P. 79
DX-H
MCBs

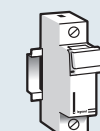


P. 83
DX
RCDs



P. 85
Metering

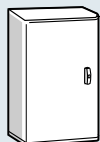
Fuse carriers and fuses



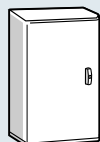
P. 89
Modular
fuse carriers



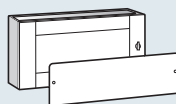
P. 93
Blade type
cartridge
fuses



P. 58
Type B
standard
distribution
boards



P. 58
Type B
flexible
distribution
boards



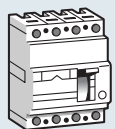
P. 59
Type B
distribution
board
accessories



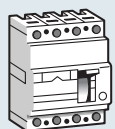
P. 60
Technical
information



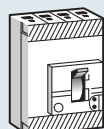
P. 61
Technical
information



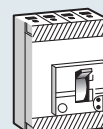
P. 64
DPX 125
MCCBs



P. 65
DPX 250 ER
MCCBs



P. 66
DPX 250
MCCBs



P. 67
DPX 630
MCCBs



P. 68
Control and
signalling
auxiliaries



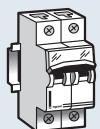
P. 69
Technical
characteristics
and curves



P. 75
Selectivity table



P. 77
Technical
information



P. 79
DX-D
MCBs



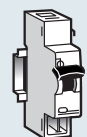
P. 80
DX MCBs
technical
information



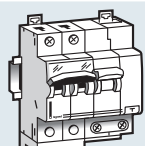
P. 81
DX tripping
and operating
curves



P. 82
Discrimination /
selectivity tables



P. 83
DX
MCB/RCD
auxiliaries



P. 84
DX
RCBs



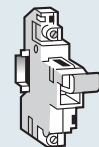
P. 88
Technical
information



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.

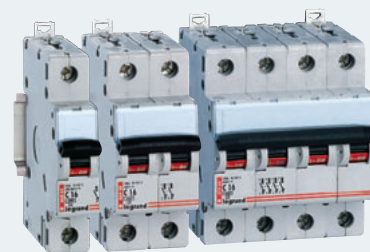
From rugged enclosures to a wide range of protection modules, each component is designed with innovation at the forefront of the process.

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

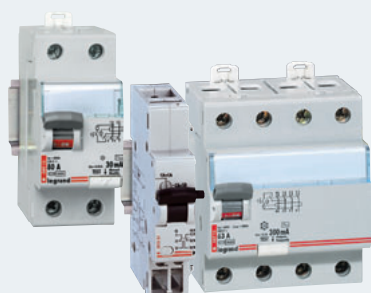
Uniquely innovative... uniquely flexible

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).

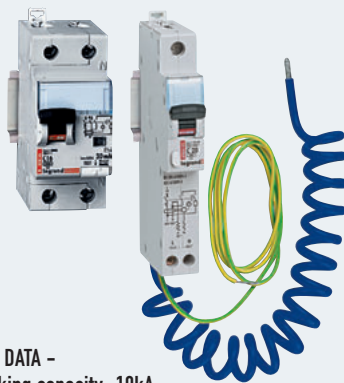


RCDs



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

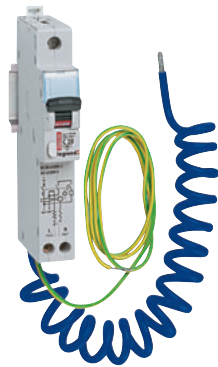
INCOMING DEVICES AND KITS (125 A BOARDS)	
Switch disconnecter 100 A 3P	0043 55 + 6072 00
Switch disconnecter 100 A 4P	0043 75 + 6072 00
Switch disconnecter 125 A 3P	0043 58 + 6072 00
Switch disconnecter 125 A 4P	0043 78 + 6072 00
MCCB 125 A 3P	0250 21 + 6072 01
MCCB 125 A 4P	0250 29 + 6072 02
MCCB 125 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

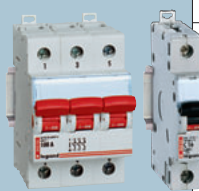
OUTGOING DEVICES (63 A MAX.) - RCBOs SINGLE MODULE 10 kA BS EN 61009-1

	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		Outgoing devices	
		Page		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

standard 125 A and 250 A busbar



6071 03 open with plate removed



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 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 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



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 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 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



Pack	Cat. Nos.	Incomer kits
1	6072 00	Kit for incomer 3P/4P MCB / switch disconnect
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

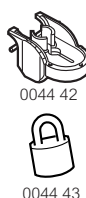
Pack	Cat. Nos.	Direct connection
1	6071 30	Terminal block 125 A
1	6071 31	Terminal block 250 A

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

Pack	Cat. Nos.	Gland plates
1	6071 75	Gland plate – plain
1	6071 76	Gland plate – with knockouts

Pack	Cat. Nos.	Neutral and earth bars
1	0048 42	Neutral bar
1	0048 32	Clean earth

Pack	Cat. Nos.	Locking accessories
1	6071 80	Handle key lock
1	6071 81	Handle for padlock
2	0044 42	Locking device
1/3	0044 43	Padlock



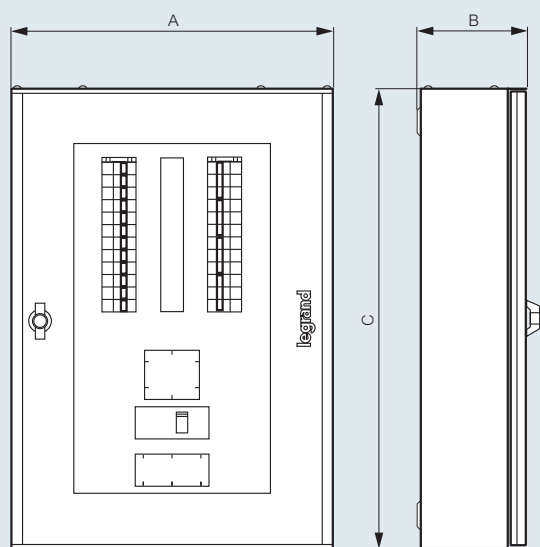
Pack	Cat. Nos.	Insulated covers, labels and spacers
1	6071 82	Blank MCB 10 module plate for inner front cover
5	0049 83	Insulated covers for 4 connector pins
10	0044 40	Spacing elements
5	0044 41	0.5 module
10	0049 96	Self-adhesive label holder

Pack	Cat. Nos.	Meter packs
1	6071 20	125 A meter pack
1	6071 21	250 A meter pack
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	1205

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	1205

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	1205

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	1205

(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



6022 53

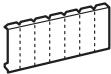


Dimensions (opposite)

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

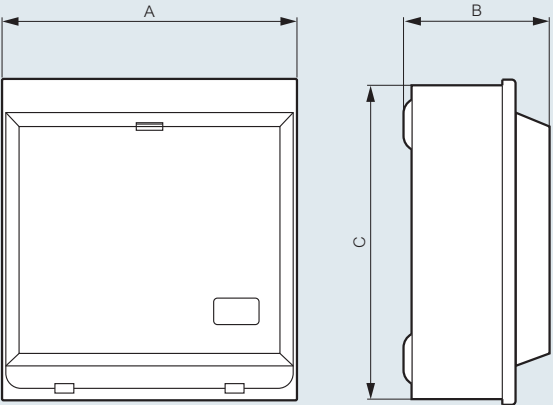
Pack	Cat. Nos.	Metal with 100 A switch disconnecter
		Lockable with Ø5 mm padlock (not supplied), see p. 60 6 to 18 way No. of SP outgoing ways
1	6022 51	6
1	6022 52	10
1	6022 53	14
1	6022 54	18

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



type A distribution boards

■ Dimensions (mm)



Metal with 100 A switch disconnecter

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 I _n (A)	16-125	16-125			25-250	

ELECTRICAL CHARACTERISTICS CONFORMING TO EN 60947-2

Rated operating voltage U _e (50-60 Hz) ~	230	500			500	
Rated operating voltage U _e = (V)	—	250			250	
Rated insulation voltage U _i ~ (V)	290	500			500	
Rated impulse withstand voltage U _{imp} (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 I _{cs} (% I _{cu})	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 I _{cw} (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

single pole	25 x 120 x 74	—	—	
Dimensions (L x H x D) (mm) 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)

Pack	Cat. Nos.		DPX-E 125 and DPX 125 MCCBs
			Conform to BS EN 60947-2 Supplied complete with : - cage terminals 70 mm ² 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~)
	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~)
	3 P	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~)
	3 P	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~)
	3 P	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® 125

earth leakage module and accessories



0260 14



0262 08



Dimensions (p. 77)

Pack	Cat. Nos.		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 In 125 A
1	4 P	0260 14	
			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
1		0262 08	
			Insulating shields Used to isolate the connections between each pole Set of 3 insulating shields
1		0262 07	
	3 P	4 P	
1	0262 05	0262 06	
			Sealable terminal shields Set of 2 terminal shields
			Padlocking accessory For locking in "OFF" position
1		0262 00	



DPX® 250 ER

MCCBs from 25 to 250 A and trip-free switches



0252 36



0252 99

DPX® 250 ER

earth leakage module and accessories



0260 38



0262 00



Selectivity and co-ordination (p. 75-76)

Electrical characteristics (p. 71)

Dimensions (p. 77)

Auxiliaries (p. 68)

Pack	Cat. Nos.		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~)
	3 P	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~)
	3 P	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

Pack	Cat. Nos.		DPX-I 250 ER trip-free switches
			Conform to BS EN 60947-3 Category of use AC 23 A
	3 P	4 P	In
1	0252 96	0252 97	160 A
1	0252 98	0252 99	250 A



Dimensions (p. 77)

Pack	Cat. Nos.		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 In 250 A
1	4 P	0260 38	
			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
1		0262 09	
			Insulating shields Used to isolate the connections between each pole Set of 3 insulating shields
1		0262 07	
	3 P	4 P	
1	0262 85	0262 86	
			Sealable terminal shields Set of 2 terminal shields
1		0262 88	
			Connection terminals (cage) Set of 4 terminals for cables without lugs - 185 mm² max. (rigid) or 150 mm² max. (flexible)
			Spreaders For increasing the distance between each pole to be connected Set of incoming or outgoing spreaders
1	3 P	4 P	
1	0262 90	0262 91	
			Padlocking accessory For locking in "OFF" position
1		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)

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

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

DPX® 250

earth leakage modules and accessories



0260 55



Dimensions (p. 77)

Pack	Cat. Nos.		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~ In
	3 P	4 P	
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 Sealable terminal shields Set of 2 terminal shields Connection terminals (cage) Sets of 4 terminals for bare cables 185 mm² max. (rigid) or 150 mm² max. (flexible) Padlocking accessory For locking in "OFF" position
1	0262 30		
	3 P	4 P	
1	0262 26	0262 27	
1	0262 35		
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

earth leakage modules and accessories



0260 61



0262 51



0262 40



Dimensions (p. 78)

Pack	Cat. Nos.		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~)
	3 P	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~)
	3 P	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

Pack	Cat. Nos.		DPX-I 630 trip-free switches
			Conform to BS EN 60947-3 Category of use AC 23 A
	3 P	4 P	In
1	0255 96	0255 97	400 A
1	0255 88	0255 89	630 A

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

Pack	Cat. Nos.		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		
	3 P	4 P	Sealable terminal shields Set of 2 terminal shields
1	0262 44	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)

Pack	Cat. Nos.		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~)
	3 P	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~)
	3 P	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 1250 trip-free switches			
Conform to BS EN 60947-3			
Category of use AC 23 A			
Without thermal-magnetic release			
	3 P	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 Set of 3 insulation shields
1	0262 66	
	3 P 4 P	
1	0262 64 0262 65	Sealable terminal shields Set of 2 short terminal shields
		Connection terminals For connecting bare cables without lugs Set of 1 terminal 2 x 240 mm ² (rigid) or 2 x 185 mm ² (flexible) Set of 1 high-capacity terminal 4 x 240 mm ² for rigid cable 4 x 185 mm ² for flexible cable
1	0262 69	
1	0262 70	
		Extended front terminals Short terminals Long terminals
1	0262 67	
1	0262 68	
		Padlocking accessory For handle, locking in "OFF" position
1	0262 60	



(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

Changeover switch 3 A - 240 V

Pack	Cat. Nos.
1	0261 60

Shunt trips

Allow remote tripping of a DPX device

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

Coil voltage 24 V~ and =
Coil voltage 48 V~ and =
Coil voltage 110 V~ and =
Coil voltage 230 V~ and =
Coil voltage 400 V~ and =

Pack	Shunt inrush power 300 VA	Cat. Nos.
1		0261 64
1		0261 65
1		0261 66
1		0261 67
1		0261 68

Undervoltage releases

Allow remote tripping of a DPX device

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

Coil voltage 24 V~
Coil voltage 24 V~
Coil voltage 48 V~
Coil voltage 110 V~
Coil voltage 230 V~
Coil voltage 400 V~

Pack	Undervoltage power consumption 5 VA	For DPX 125	For all DPX 250 to 1 250
1		0261 70	0261 80
1		0261 71	0261 81
1		0261 72	0261 82
1		0261 76	0261 86
1		0261 73	0261 83
1		0261 74	0261 84

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
 - I_m = short-circuit operating time
 - I_r = operating current
 - 1 = thermal release from cold
 - 2 = thermal release from hot
- Tolerance of magnetic release $\pm 20\%$

■ I^2t/I_{cc} characteristics

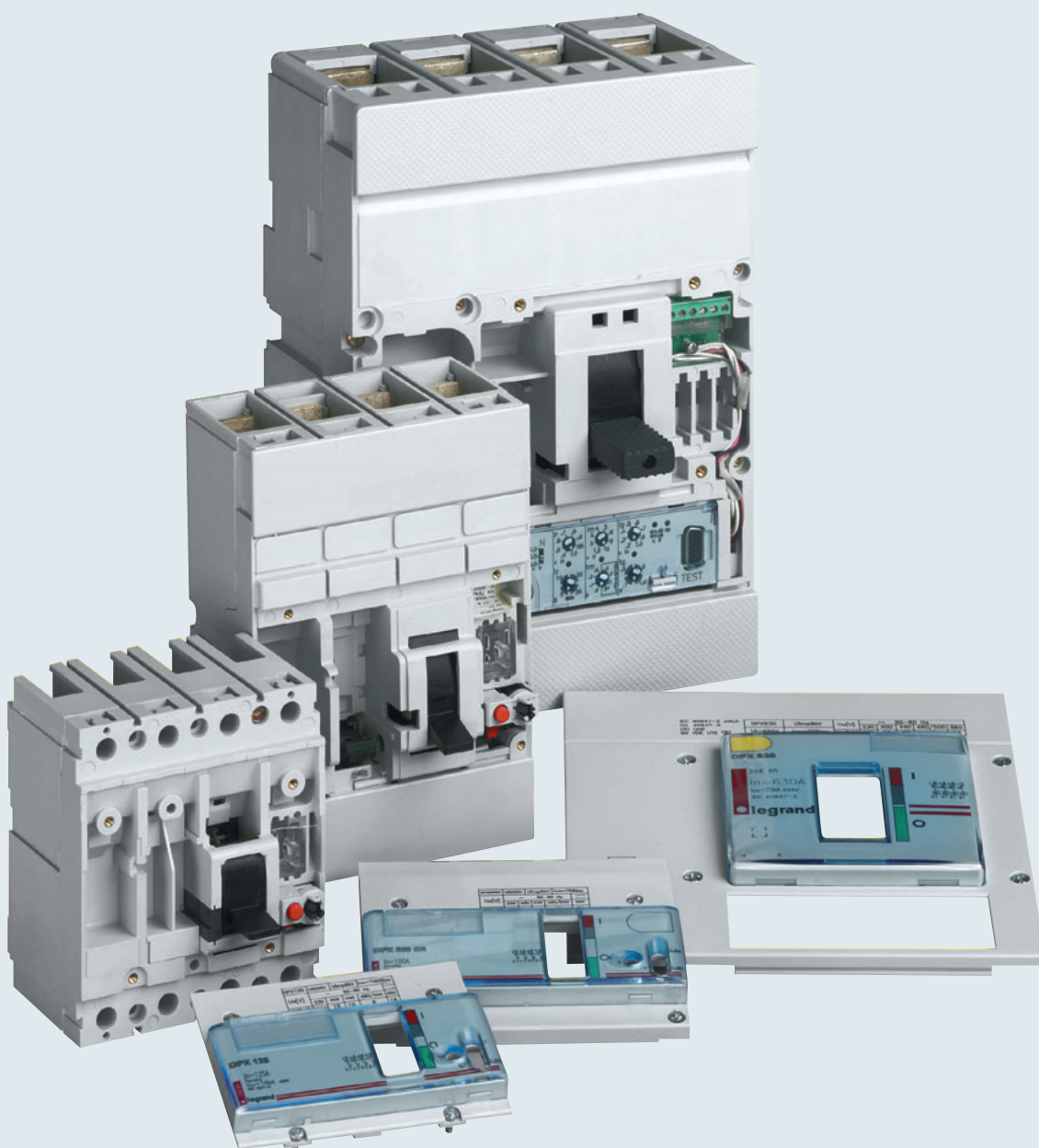
- I_{cc} = prospective symmetrical short-circuit current (mms value - A)
- I^2t = specific let through energy (A²s)

■ Limiting characteristics

- I_{cc} = prospective symmetrical short-circuit current (mms value - A)
- I_p = 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

- I_n = residual operating current (sensitivity)
- t = operating time



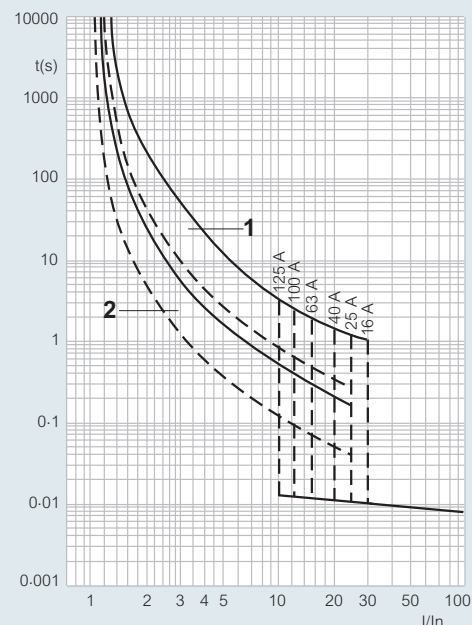
Electrical characteristics

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 mm ² flexible cables : 50 mm ² copper bar (width) : 12 mm

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

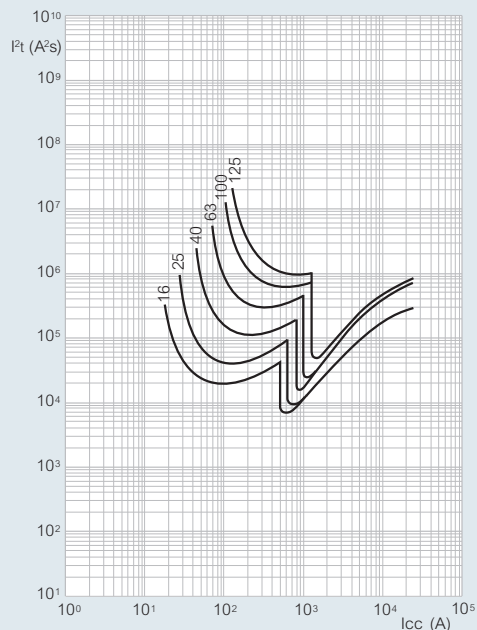
Ue	DPX 125 25 kA		DPX 125 36 kA	
	Icu (kA)	Ics (%Icu)	Icu (kA)	Ics (%Icu)
400 V~	25	50	36	75
230 V~	35	50	40	75

Tripping curves



at ambient $\theta = 40^\circ\text{C}$
 I = actual current
 I_r = 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



I_{cc} = prospective short-circuit symmetrical current (rms values in A)
 I^2t = limited thermal stress (in A²s)

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

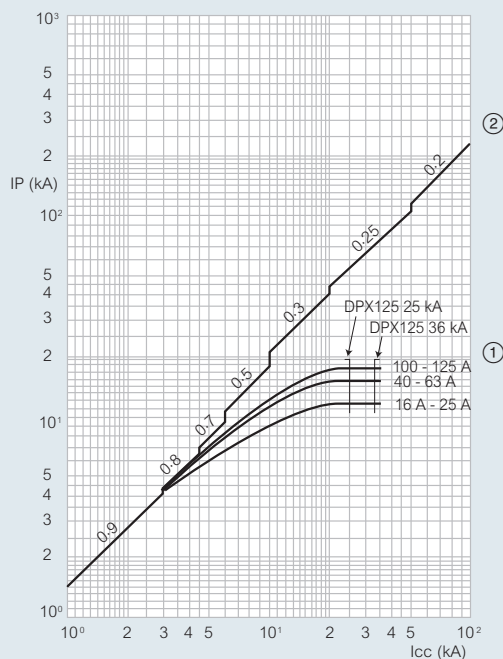
In (A)	16	25	40	63	100	125
Phase	16	25	40	63	100	125
N	16	25	40	63	100	125
N/2	-	-	-	-	63	63

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

In (A)	16	25	40	63	100	125
Phase	480	625	800	950	1250	1250
N	480	625	800	950	950	950

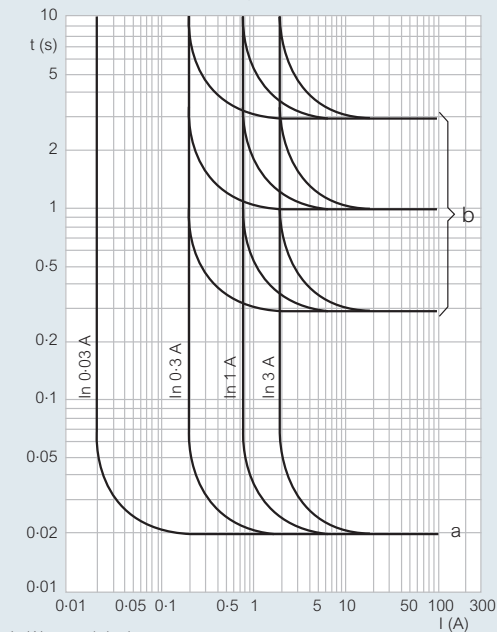
(1) Trip current for 50/60 Hz
 For direct current, multiply by 1.5

Current limitation curves



I_{cc} = prospective short-circuit symmetrical current (rms values in kA)
 I_P = 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



$I\Delta(A)$ = earth leakage current
 $I\Delta n$ = nominal earth leakage current
 a = instantaneous tripping point
 b = 3 possible delay settings (0.3, 1 and 3 seconds)

DPX® 250 ER

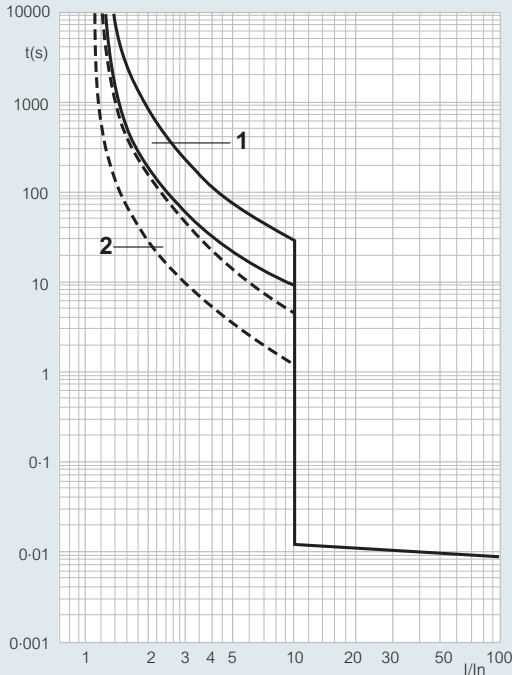
Electrical characteristics

Maximum nominal operating function	500 V~ - 250 V=
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0.64 to 1 I _n
Maximum permitted cross sections via optional cage terminals (set of 4 Cat. No. 0262 88 see p. 65)	stranded cables : 185 mm ² flexible cables : 150 mm ² copper bar (width) : 22 mm (M8)

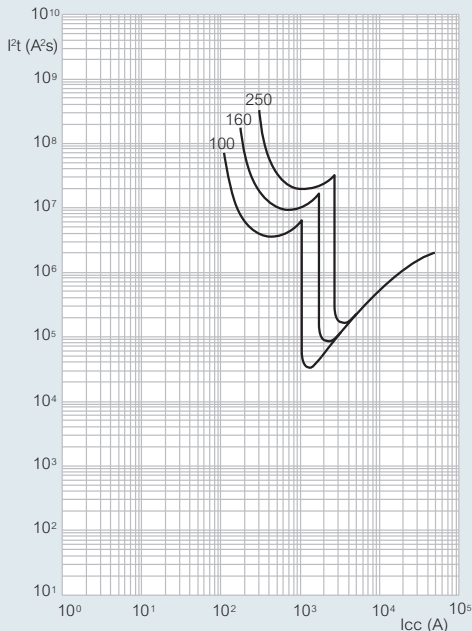
Nominal breaking capacity (kA) (BS EN 60947-2)

U _e	DPX 250 ER 25 kA	
	I _{cu} (kA)	I _{cs} (%I _{cu})
400 V~	25	100
230 V~	40	100

Tripping curves



Thermal stress limitation curves



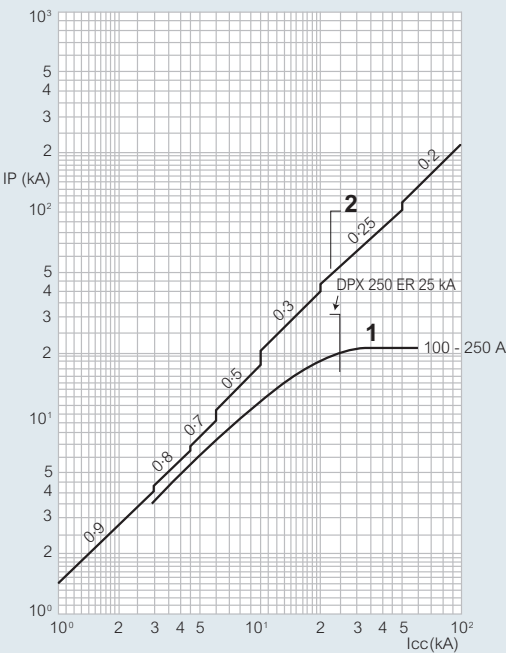
Nominal current (I_n) at 40 °C (A) for DPX 250 ER

I _n (A)	100	160	250
Phase	100	160	250
N	100	160	250
N/2	–	100	160

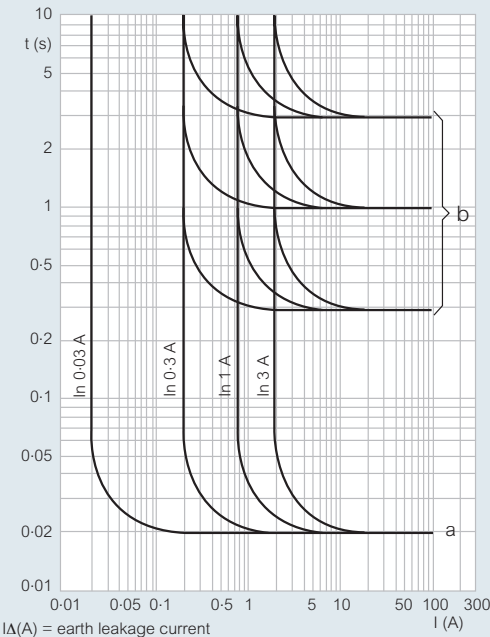
Fixed magnetic threshold (I_m) (A) for DPX 250 ER

I _n (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



Differential tripping curves



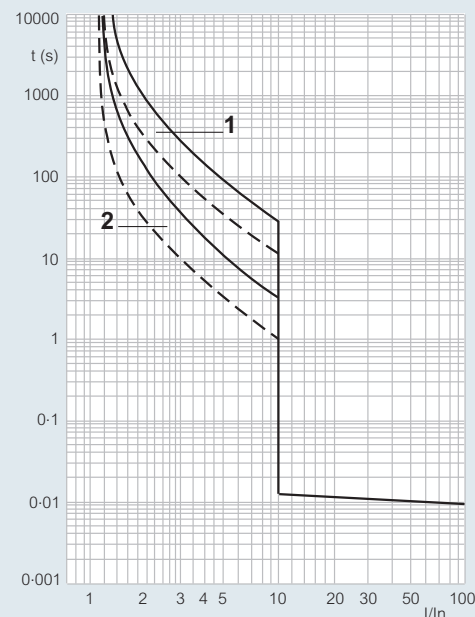
Electrical characteristics

Maximum nominal operating function	690 V~ - 250 V=
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0.64 to 1 I _n
Magnetic release	3.5 to 10 I _n
Maximum permitted cross sections via optional cage terminals (set of 4 Cat. No. 0262 35 see p. 66)	stranded cables : 185 mm ² flexible cables : 150 mm ² copper bar (width) : 25 mm (M8)

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

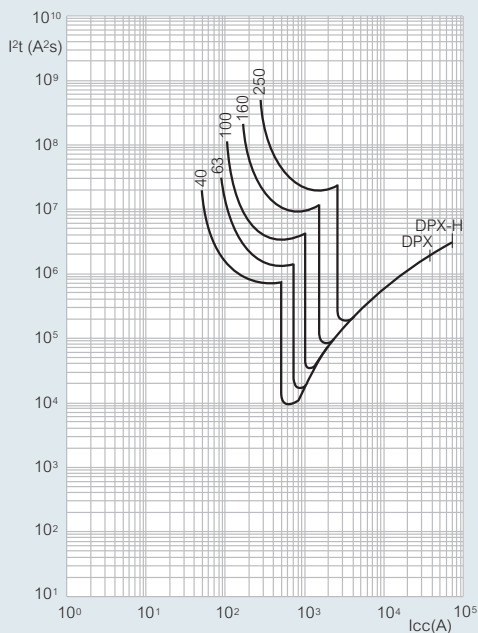
U _e	DPX 250 36 kA		DPX-H 250 70 kA	
	I _{cu} (kA)	I _{cs} (%I _{cu})	I _{cu} (kA)	I _{cs} (%I _{cu})
400 V~	36	100	70	75
230 V~	60	100	100	75

Tripping curves



at ambient $\theta = 40^\circ\text{C}$
 I = actual current
 I_r = 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



I_{cc} = prospective short-circuit symmetrical current (rms values in A)
 I^2t = limited thermal stress (in A²s)

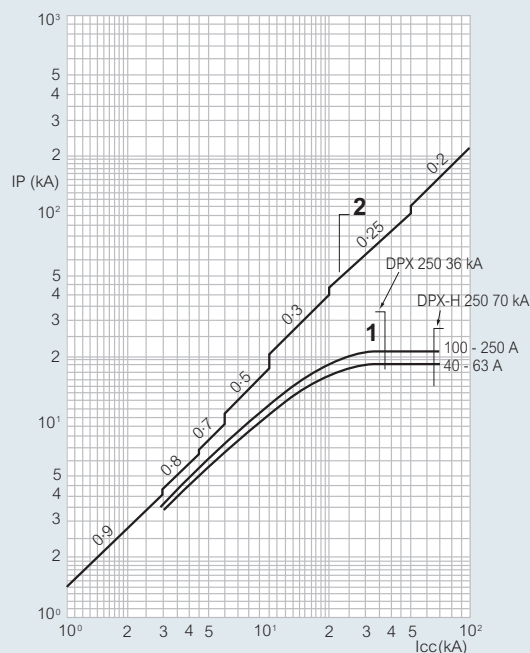
Nominal current (I_n) at 40 °C (A) for DPX 250

I _n (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 (I_m) (A) for DPX 250

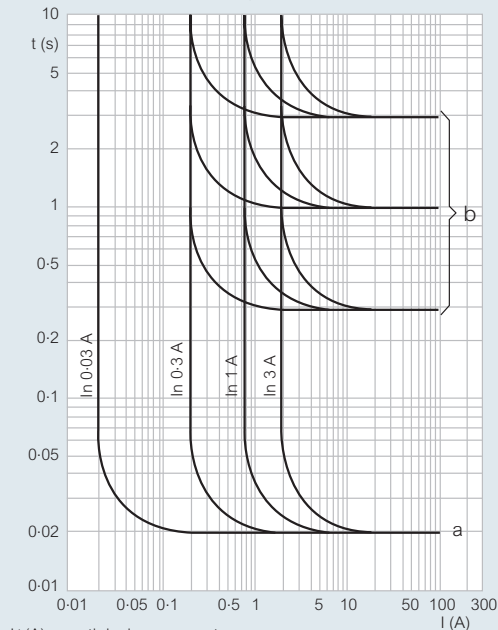
I _n (A)	40	63	100	160	250
Phase	140-400	220-630	350-1 000	560-1 600	900-2 500
N	140-400	220-630	220-630	350-1 000	560-1 600

Current limitation curves



I_{cc} = 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



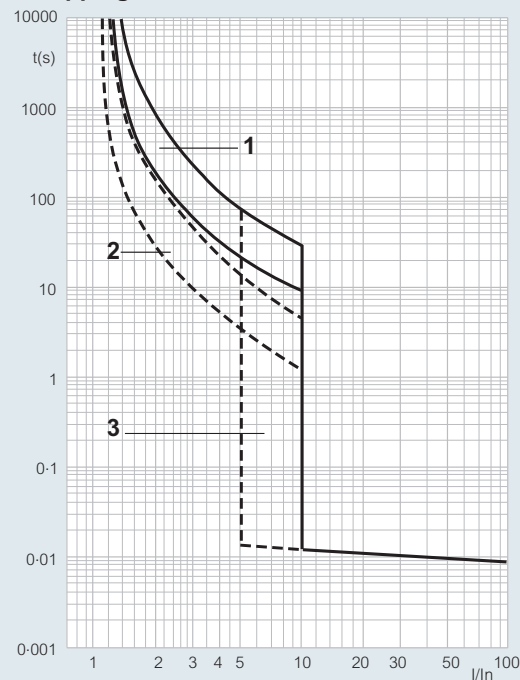
$I\Delta(A)$ = earth leakage current
 $I\Delta n$ = nominal earth leakage current
 a = instantaneous tripping point
 b = 3 possible delay settings (0.3, 1 and 3 seconds)

DPX® 630

Electrical characteristics

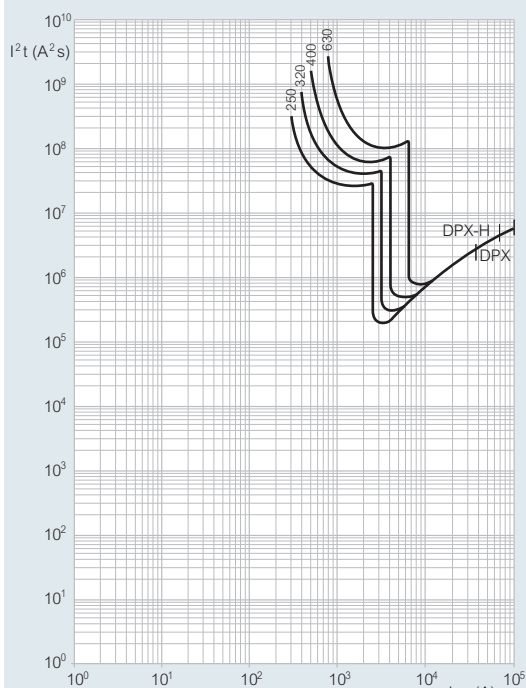
Maximum nominal operating function	690 V~
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0.8 to 1 I _n
Magnetic release	0.5 to 10 I _n
Maximum permitted cross sections : - via optional cage terminals (set of 4 Cat. No. 0262 50 see p. 67) - via optional high capacity screw terminals (set of 4 Cat. No. 0262 51 see p. 67)	stranded cables : 300 mm ² (or 2 x 240 mm ²) flexible cables : 240 mm ² (or 2 x 185 mm ²) copper bar (width) : 32 mm (M10)

Tripping curves



at ambient $\theta = 40^\circ\text{C}$
 I = actual current
 I_r = 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



I_{cc} = prospective short-circuit symmetrical current
 (rms values in A)
 I^2t = limited thermal stress (in A²s)

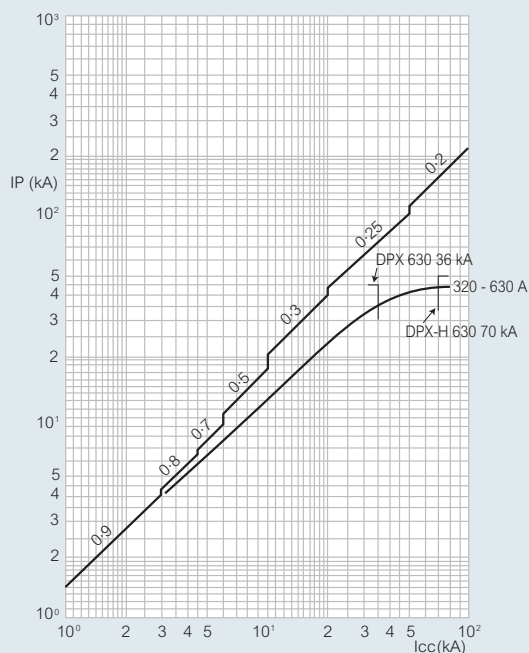
Nominal breaking capacity (kA) (BS EN 60947-2)

U _e	DPX 630		DPX-H 630	
	I _{cu} (kA)	I _{cs} (%I _{cu})	I _{cu} (kA)	I _{cs} (%I _{cu})
400 V~	36	100	70	75
230 V~	60	100	100	75

Nominal current (I_n) for DPX 630 and DPX-H 630

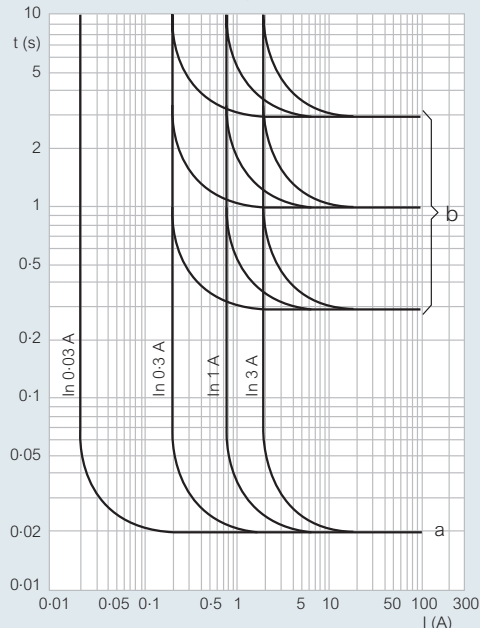
Phase	320	400	500	630
N	320	400	500	630
N/2	250	250	250	320

Current limitation curves



I_{cc} = prospective short-circuit symmetrical current
 (rms values in kA)
 I^2t = limited thermal stress (in A²s)

Differential tripping curves

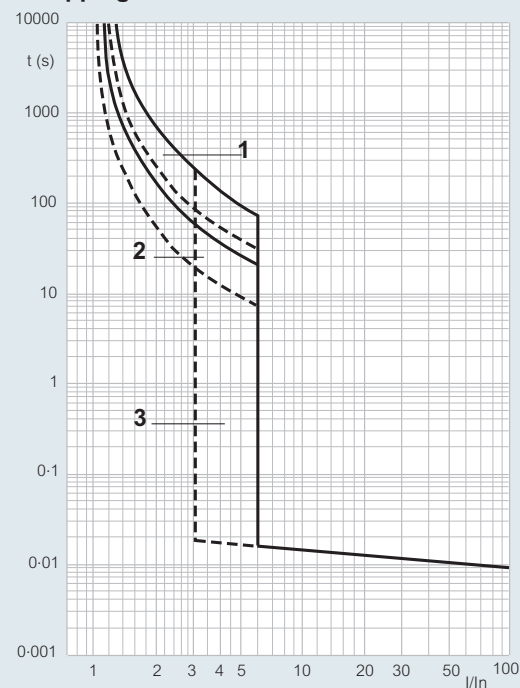


$I_D(A)$ = earth leakage current
 I_{Dn} = nominal earth leakage current
 a = instantaneous tripping point
 b = 3 possible delay settings (0.3, 1 and 3 seconds)

Electrical characteristics

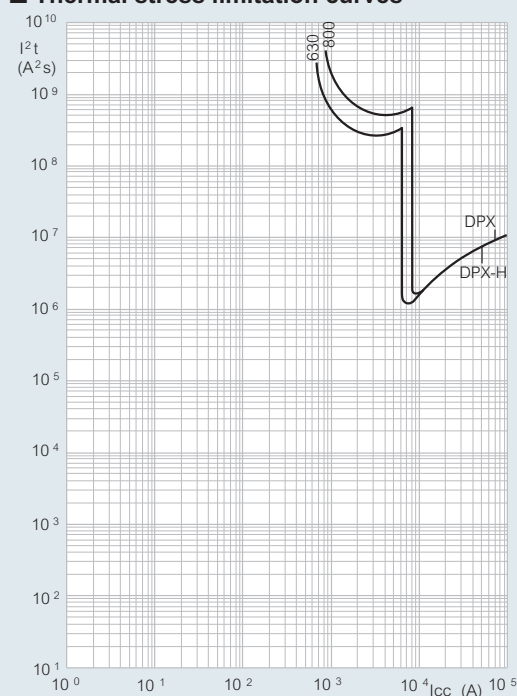
Maximum nominal operating function	690 V~
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0.8 to 1 I _n
Maximum permitted cross sections : - 2 cables via optional screw terminals (set of 1, Cat. No. 0262 69, see p. 68) - 4 cables via optional high capacity screw terminals (set of 1, Cat. No. 0262 70, see p. 68)	2 or 4 stranded cables : 240 mm ² 2 or 4 flexible cables : 185 mm ² copper bar (width) : 50 mm (M12)

Tripping curves



at ambient $\theta = 40^\circ\text{C}$
 I = actual current
 I_r = 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



I_{cc} = prospective short-circuit symmetrical current
 (rms values in A)
 I^2t = limited thermal stress (in A²s)

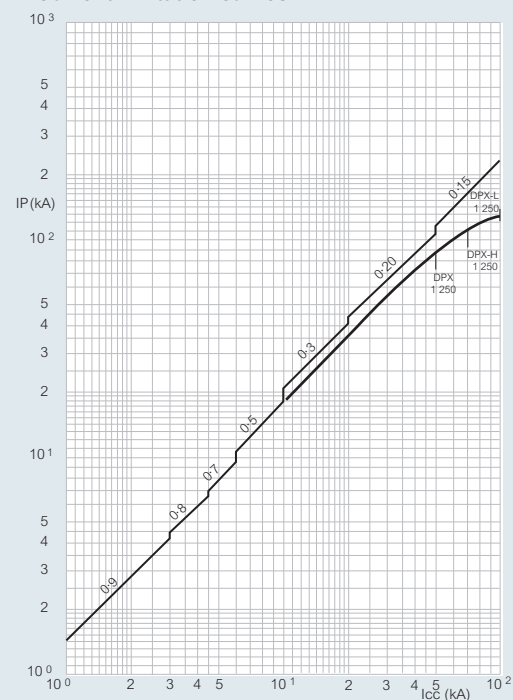
Nominal breaking capacity (kA) (BS EN 60947-2)

U _e	DPX 1 250		DPX-H 1 250	
	I _{cu} (kA)	I _{cs} (%I _{cu})	I _{cu} (kA)	I _{cs} (%I _{cu})
400 V~	50	100	70	75
230 V~	80	100	100	75

Nominal current (I_n) for DPX 1 250 and DPX-H 1 250

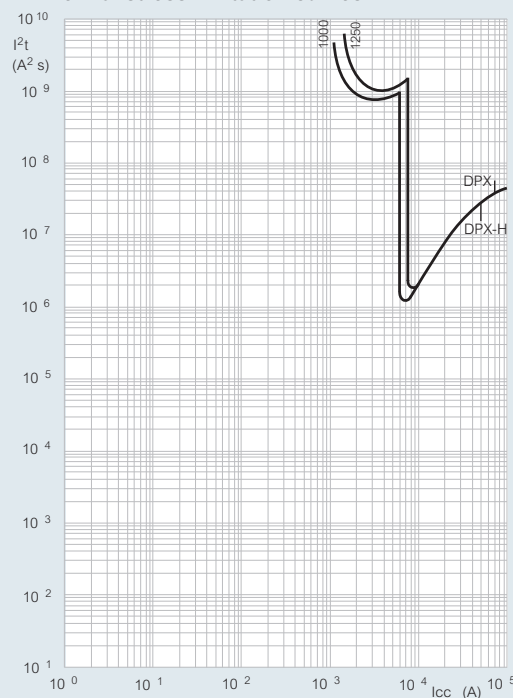
Phase	630	800
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Current limitation curves



I_{cc} = 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



I_{cc} = prospective short-circuit symmetrical current
 (rms value in A)
 I^2t = limited thermal stress (in A²s)

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 ⁽³⁾					70		70	50	70
DPX 250 ER ⁽¹⁾					70		70		70
DPX 250					70		70	50	70
DPX-H 250									
DPX 630							100	50	70
DPX-H 630								70	
DPX 1 250									70
DPX-H 1 250									

(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/MCCBs upstream																	Fuses upstream	
MCBs downstream		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/MCCBs upstream														Fuses upstream	
MCBs downstream		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
DX-H 10 kA B and C ⁽¹⁾ curves	125 A							25	25			25	25	25	20		100
	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

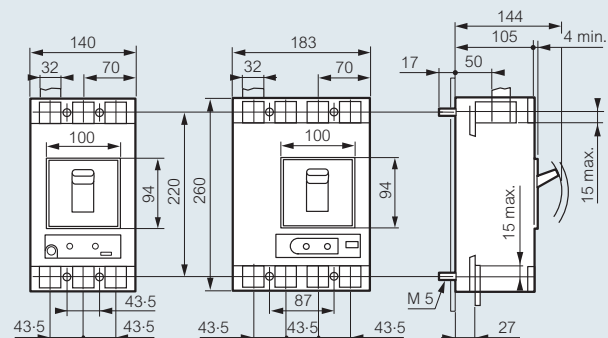
(1) The magnetic threshold of the upstream circuit breaker must be higher than the magnetic threshold of the downstream circuit breaker

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)

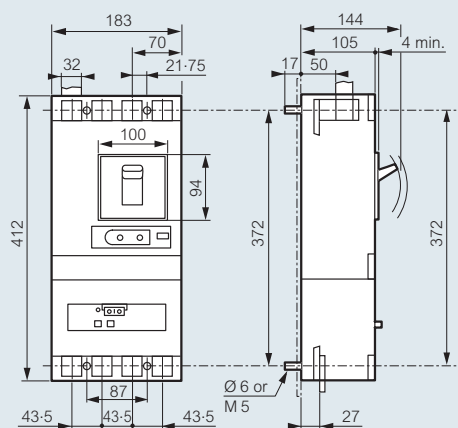
■ Dimensions

DPX 630 fixed version, front terminals

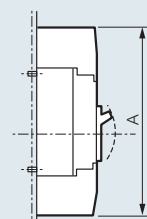


DPX 630 fixed version, with earth leakage module mounted underneath⁽¹⁾

front terminals



DPX 630 terminal shields

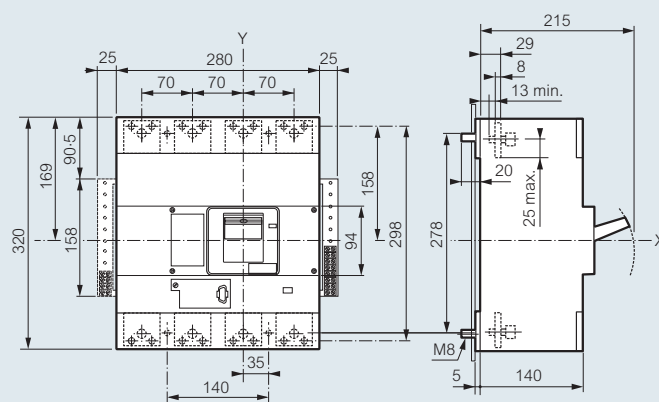
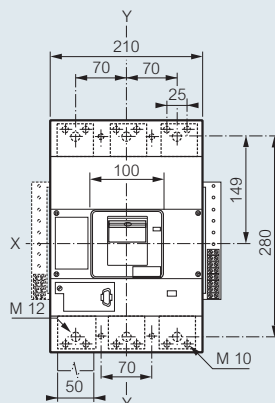


	A (mm)
DPX 630	390
DPX 630 + earth leakage module mounted underneath	542

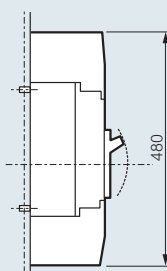
(1) The dimensions of the 3-pole earth leakage modules are the same as the dimensions of the 4-pole earth leakage modules

■ 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



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.		Single pole 230/400 V~	
	B curve	C curve	Nominal rating (A)	Number of 17.5 mm modules
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		0068 66	63	1
1		0063 83	80	1.5 ⁽¹⁾

	B curve	C curve	Double pole 400 V~	
			Nominal rating (A)	Number of 17.5 mm modules
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		0069 26	63	2
1		0064 75	80	3 ⁽¹⁾
1		0064 76	100	3 ⁽¹⁾
1		0064 77	125	3 ⁽¹⁾

	B curve	C curve	Triple pole 400 V~	
			Nominal rating (A)	Number of 17.5 mm modules
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⁾

	B curve	C curve	Four pole 400 V~ ⁽²⁾	
			Nominal rating (A)	Number of 17.5 mm modules
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



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.		Single pole 230/400 V~	
	D curve		Nominal rating (A)	Number of 17.5 mm modules
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

	D curve	Double pole 400 V~	
		Nominal rating (A)	Number of 17.5 mm modules
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⁾

	D curve	Triple pole 400 V~	
		Nominal rating (A)	Number of 17.5 mm modules
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⁾

	D curve	Four pole 400 V~ ⁽²⁾	
		Nominal rating (A)	Number of 17.5 mm modules
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

DX-H, DX-D MCBs

■ Technical information

- Maximum voltage : 240 V - 415 V $\sim$ $\pm$ 10 %
- Maximum voltage : 80 V $\equiv$ per pole
- Insulation voltage : 500 V $\sim$
- Dielectric : 2 500 V $\sim$

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 $\geq$ 63 A	In $\geq$ 80 A
Connection cross sections (in mm ²)	25 mm ² flexible cable 35 mm ² stranded cable	50 mm ² flexible cable 70 mm ² 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

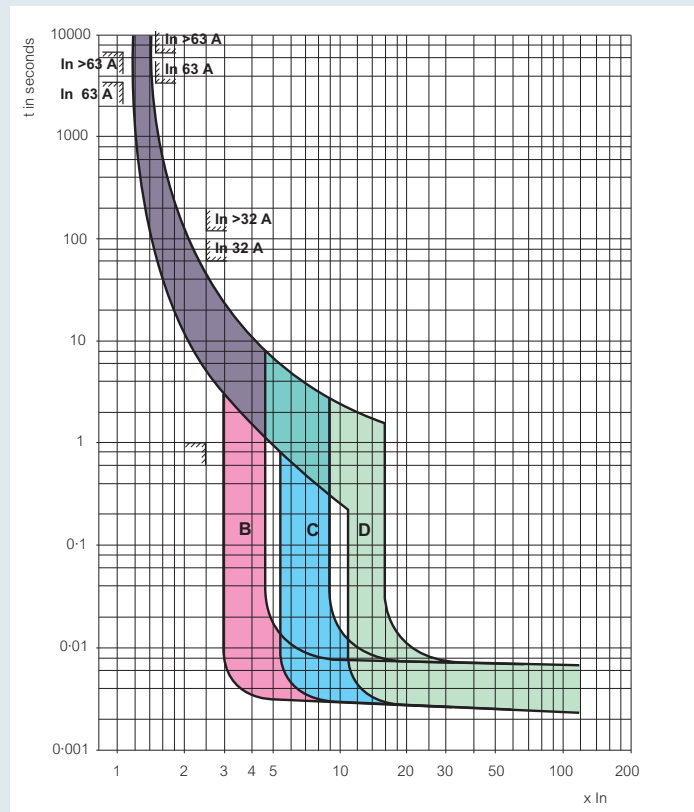
Operation with DC voltage supply : up to a maximum of 80 V DC per pole – for voltages above 80 V DC use multipole devices wired IN SERIES (e.g. two pole 160 V $\equiv$ maximum)

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

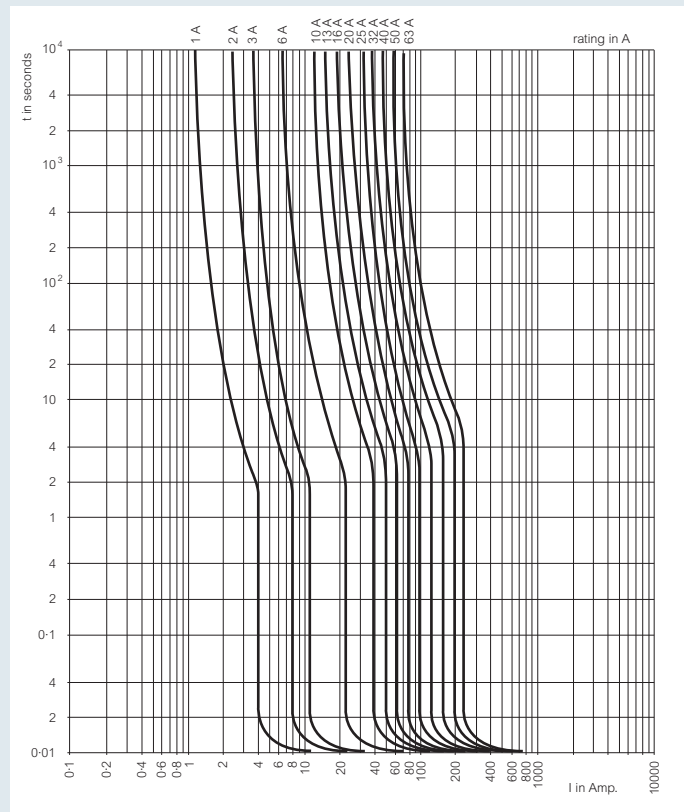
DX-H, DX-D MCBs

tripping and operating curves

MCB tripping curves

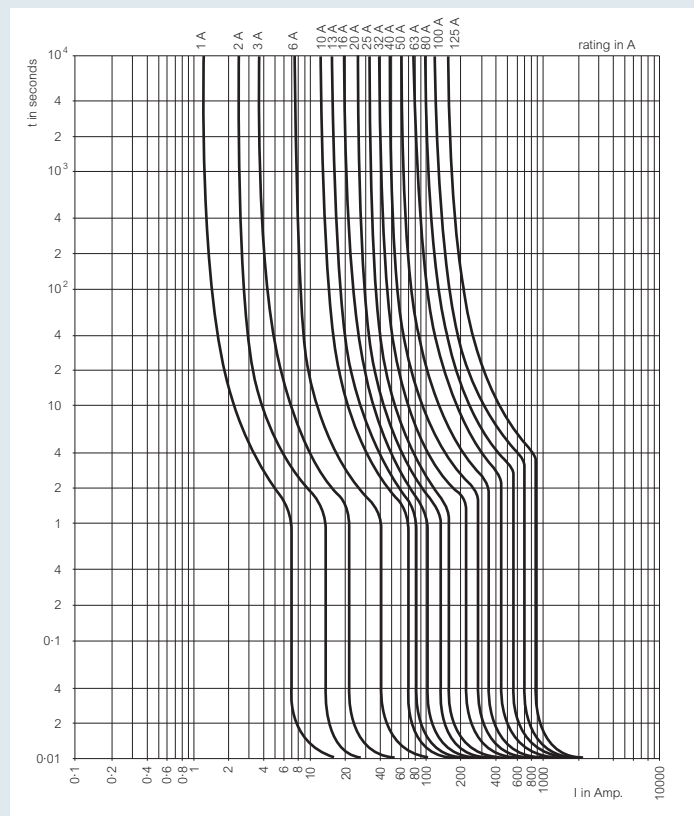


Operating curves DX-H type B from 1 A to 63 A



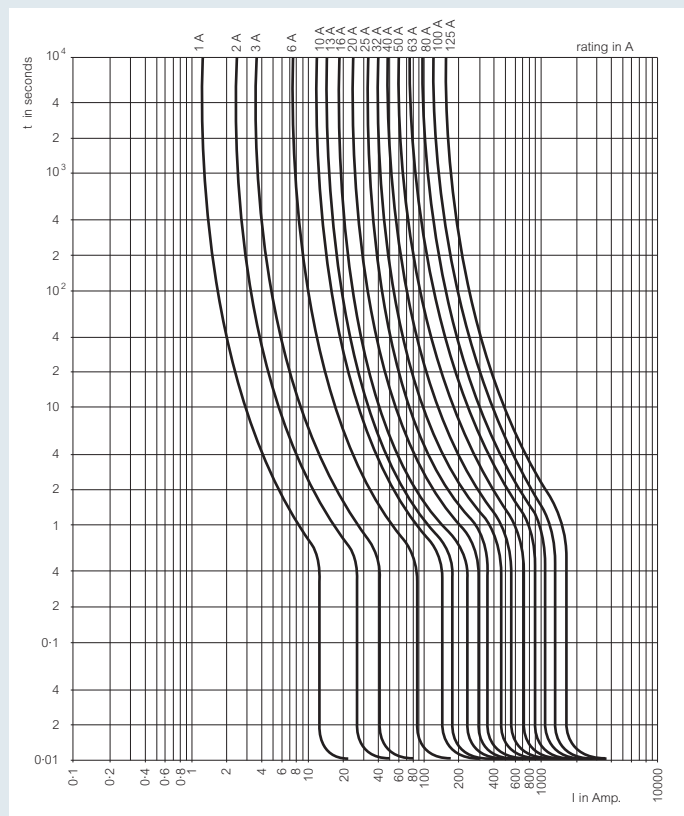
Standard BS EN 60898 defines type B magnetic curve between 3 and 5 I_n

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 I_n

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 I_n

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

MCBs/MCBs

MCBs downstream		MCBs upstream																															
		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	1200	1500		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	1200	1500				100	128	160	200	252		
	16 A			150	187	240	300	375	472	480	600	750			240	300	384	480	600	756	800	1200	1500						160	200	252		
	20 A				187	240	300	375	472	480	600	750				300	384	480	600	756	800	1200	1500							200	252		
	25 A					240	300	375	472	480	600	750					384	480	600	756	800	1200	1500								252		
	32 A						300	375	472	480	600	750						480	600	756	800	1200	1500										
	40 A							375	472	480	600	750							600	756	800	1200	1500										
	50 A								472	480	600	750								756	800	1200	1500										
	63 A									480	600	750									800	1200	1500										
	80 A										600	750										1200	1500										
	100 A											750											1500										
125 A																							1500										
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	1200	1500				100	128	160	200	252		
	10 A			150	187	240	300	375	472	480	600	750		192	240	300	384	480	600	756	800	1200	1500						160	200	252		
	16 A					240	300	375	472	480	600	750			240	300	384	480	600	756	800	1200	1500								252		
	20 A						300	375	472	480	600	750				300	384	480	600	756	800	1200	1500										
	25 A							375	472	480	600	750					384	480	600	756	800	1200	1500										
	32 A								472	480	600	750						480	600	756	800	1200	1500										
	40 A									480	600	750							600	756	800	1200	1500										
	50 A										600	750								756	800	1200	1500										
	63 A										600	750									800	1200	1500										
	80 A																					1200	1500										
	100 A																						1500										
125 A																							1500										
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	1200	1500	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	1200	1500		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	1200	1500			80	100	128	160	200	252		
	20 A				187	240	300	375	472	480	600	750				300	384	480	600	756	800	1200	1500				100	128	160	200	252		
	25 A					240	300	375	472	480	600	750					384	480	600	756	800	1200	1500					128	160	200	252		
	32 A						300	375	472	480	600	750						480	600	756	800	1200	1500						160	200	252		
	40 A							375	472	480	600	750							600	756	800	1200	1500							200	252		
	50 A								472	480	600	750								756	800	1200	1500								252		
63 A									480	600	750									800	1200	1500											

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
	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



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	4 P
Min.	135 V (10/30/300 mA)	195 V (30 mA) 230 V (100 mA) 215 V (300 mA) 295 V (500 mA)
Max.	250 V	440 V

Pack Cat. Nos. Double pole - 230 V~

Pack	Type AC	Type A	Nominal rating (A)	Number of 17.5 mm modules
1	0089 06	0090 53	10 mA	2
1	0089 09	0090 56	16	2
1	0089 10	0090 57	25	2
1	0089 11	0090 58	40	2
1	0089 12	0090 59	63	2
1	6027 10		80	2
1			100	2
1	0089 15		100 mA	2
1	0089 16		25	2
1	0089 17		40	2
1	0089 18		63	2
1			80	2
1	6027 11		100 mA discriminating	2
1			100	2
1	0089 27	0090 74	300 mA	2
1	0089 28	0090 75	25	2
1	0089 29	0090 76	40	2
1	0089 30	0090 77	63	2
1			80	2
1	0089 35	0090 82	300 mA discriminating	2
1			63	2

Pack Cat. Nos. Four pole - 400 V~ neutral on right

Pack	Type AC	Type A	Nominal rating (A)	Number of 17.5 mm modules
1	0089 93	0091 40	30 mA	4
1	0089 94	0091 41	25	4
1	0089 95	0091 42	40	4
1	0089 96	0091 43	63	4
1			80	4
1	0089 99	0091 46	100 mA	4
1	0090 00	0091 47	25	4
1	0090 01	0091 48	40	4
1	0090 02	0091 49	63	4
1		0091 50	80	4
1			100	4
1	0090 11	0091 58	300 mA	4
1	0090 12	0091 59	25	4
1	0090 13	0091 60	40	4
1	0090 14	0091 61	63	4
1		0091 62	80	4
1			100	4

Pack Cat. Nos. Four pole - 400 V~ neutral on right (continued)

Pack	Type AC	Type A	Nominal rating (A)	Number of 17.5 mm modules
1	0090 23		500 mA	4
1	0090 24	0091 71	25	4
1	0090 25	0091 72	40	4
1	0090 26	0091 73	63	4
1			80	4
1	0090 18	0091 65	300 mA discriminating	4
1	0090 19	0091 66	40	4
1			63	4

Pack Cat. Nos. Four pole - 400 V~ neutral on left

Pack	Type AC	Nominal rating (A)	Number of 17.5 mm modules
1	0086 96	30 mA	4
1	0087 14	80	4
1		300 mA	4
1		80	4

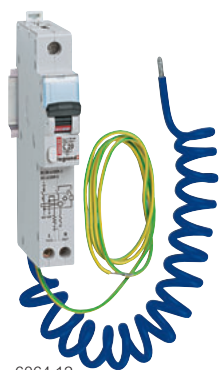
Auxiliaries for MCBs and RCDs

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

	Number of 17.5 mm modules
Signalling auxiliaries	
Auxiliary changeover switch, 6 A - 250 V~ Indicates the position of the contacts	0-5
Fault signalling changeover switch, 6 A - 250 V~ Indicates tripping of the MCB at a fault	0-5
Auxiliary changeover switch, 6 A - 250 V which can be modified to a fault signalling switch	0-5
Auxiliary changeover switch, 6 A - 250 V + fault signalling switch, can be modified to 2 auxiliary changeover switches	1

DX™ RCB0s - 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)

Pack	Cat. Nos.	Single pole + neutral - 230 V~	
	Type AC C curve	Nominal rating (A)	Number of 17.5 mm modules
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 solid unswitched neutral
Suitable for type B standard or flexible
boards and type A boards

	Type AC		Nominal rating (A)	Number of 17.5 mm modules
	B curve	C curve		
1		0078 79	16	2
			10 mA	
			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

Single pole + neutral - 230 V~

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

Pack	Cat. Nos.	Double pole - 230/400 V~			
	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

Double pole - 230/400 V~

Suitable for type B flexible boards only

	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

Four pole - 400 V~

Suitable for type B flexible boards only

metering



0046 02



0046 00



0046 64



0046 52



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

Pack	Cat. Nos.	Analogue ammeters	Number of modules
1	0046 02	Measure the intensity of the current circulating in an electrical circuit in Amperes (A) Direct connection To alternating or direct current Range : 0-30 A	4
1	0046 00	Connected using a 5 A current transformer (CT) 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	

Pack	Cat. Nos.	Analogue voltmeter	Number of modules
1	0046 60	For measuring the AC or DC voltage (V) in an electrical circuit 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			
		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

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

Pack	Cat. Nos.	Digital frequency meter	Number of modules
1	0046 64	For measuring the frequency of a 100 to 500 V~ electrical circuit in Hertz (Hz) Green LED 3 digit display - 10-100 Hz display	4

Pack	Cat. Nos.	Selector switches	Number of modules
1	0046 50	For manual switching of circuits being measured 4-position ammeter selector switch For measuring currents in a 3 phase circuit using only one ammeter with a current transformer	3
1	0046 52	4-position voltmeter selector switch For measuring phase-to-phase voltages of a 3 phase circuit without neutral using only one voltmeter	3
1	0046 53	7-position voltmeter selector switch 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

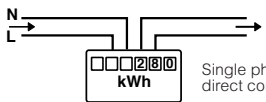


0046 91

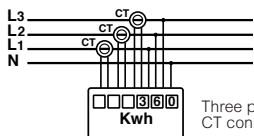


Technical information (p. 87)
Dimensions (p. 88)

Pack Cat. Nos. Single phase meters

Pack	Cat. Nos.		
		Direct connection	
			Single phase direct connection
		Power supply : 230 V~ - 50/60 Hz	
		Without pulse transmitter	
1	0046 81	Up to 32 A Display : LCD screen 6 digits including 1 decimal place 1 unit = 0.1 kWh Partial counting with reset	2
1	0046 72	Up to 63 A Display : LCD screen 5 digits, 1 unit = 1 kWh Partial counting with reset	2

Pack Cat. Nos. Three phase meters

Pack	Cat. Nos.		
		Power supply : 400 V~ - 50/60 Hz (3 phase + N) Display : LCD screen 5 digits, 1 unit = 1 kWh 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 Partial counting with reset 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 1 x 200 ms pulse every 10 kWh	4
			Three phase CT connection
		10/x 200 ms pulses per kWh (x = rating of CT)	

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	
1	0046 94	230 V~ - 50 Hz	2
1	0046 91	24 V~ - 50 Hz	2

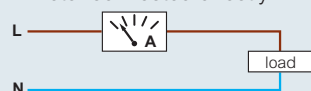
metering

■ Ammeters

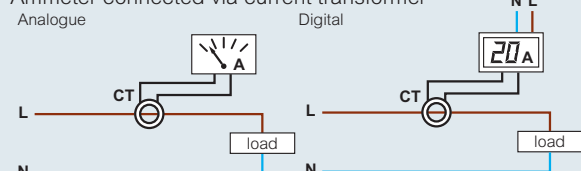
Technical characteristics

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 :			4.5 VA 1 VA
Connection size	Direct	Via CT	2 x 2.5 mm ²
	6 mm ²	4 mm ²	
Conformity to standards	EN 61010-1		EN 61010-1

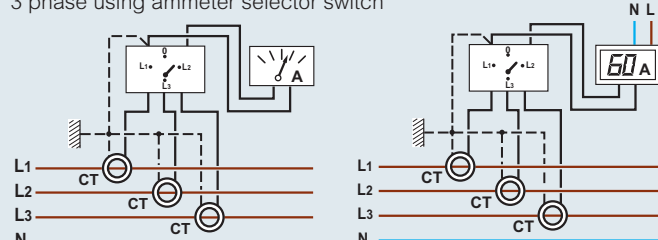
Ammeter connected directly



Ammeter connected via current transformer



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 50/5 100/5 200/5		Ø 21	16 x 12.5	on rail EN 60715
CT 300/5		Ø 23	20.5 x 12.5 25.5 x 11.5 30.5 x 10.5	55 x 45
CT 400/5		Ø 35	40.5 x 10.5	54 x 45
CT 600/5 800/5 1000/5		—	32 x 65	fix on bar
CT 1500/5 2000/5		—	38 x 127	fix on bar

Technical characteristics

Degree of protection	IP 20
Using frequency	50/60 Hz

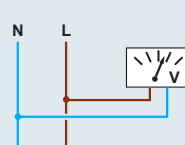
■ Voltmeters

Technical characteristics

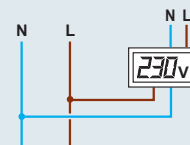
Type of measurement	Analogue		Digital
	Ferromagnetic		Electronic integration
Frequency	50 to 60 Hz		50 to 60 Hz
Precision	1.5 %		± 1 % to ± 1 digit
Operating temperature	-10 °C to +40 °C		-10 °C to +40 °C
Storage temperature	-20 °C to +80 °C		-20 °C to +70 °C
Consumption	3 VA		4.5 VA
Connection size	2 x 2.5 mm ²		2 x 2.5 mm ²
Conformity to standards	EN 61010-1		EN 61010-1

Voltmeter

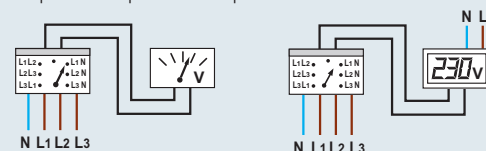
Analogue



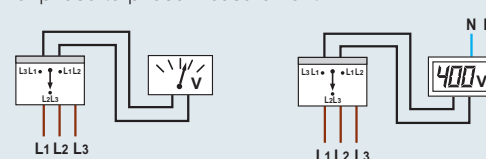
Digital



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



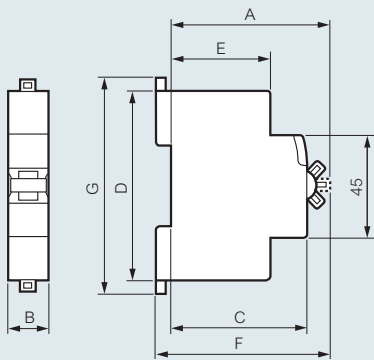
■ Frequency meter

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 mm ²
Conformity to standards	EN 61010-1

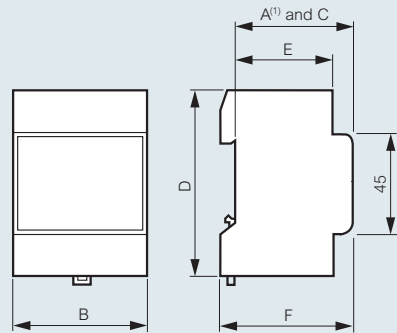
modular DIN rail equipment
dimensions

■ 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

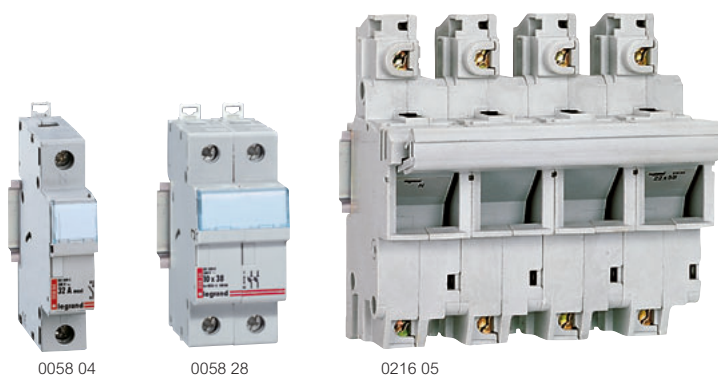


Description	Dimension (mm)					
	A ⁽¹⁾	B	C	D	E	F
Ammeter - Voltmeters	60	70	60	83	44	66
Selector switches	69	52.5	60	74	44.5	74
Digital frequency meter Cat. No. 0046 64	63	70	63	89	42	69
Three phase meters Cat. No. 0046 73/74	60	72	60	81	44	66
Single phase meters Cat. No. 0046 81/72	60	35.5	60	89	44	66

(1) Maximum projection

modular fuse carriers

for industrial cylindrical cartridge fuses



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 Fix to DIN rail  EN 60715 Equipped with label holder Padlockable using locking accessory Cat. No. 0057 99, p. 90 Shielded terminals max. capacity 2 x 10 mm ² 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

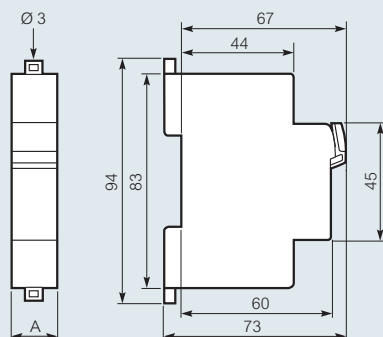
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modular fuse carriers

for industrial cylindrical cartridge fuses

Modular fuse carriers

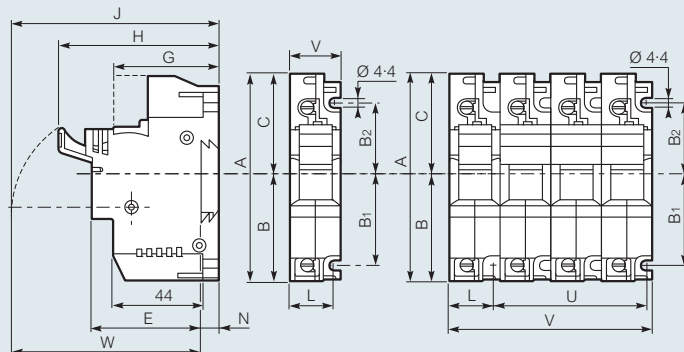
Conform to IEC 60269-2/2-1, isolation to IEC 60947-3
Icc : 20 kA with 8.5 x 31.5 fuse
100 kA with 10 x 38 fuse
Operating temperature : -5 °C to +40 °C
Mechanical resistance : IPxx 3



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
SP 51	50 A	50	50	40	25
SP 58	100 A (125 A in 400 V)	125	125	100	50

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

Equipment derating

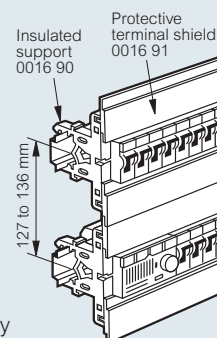
Justified under more severe conditions of use :

- 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



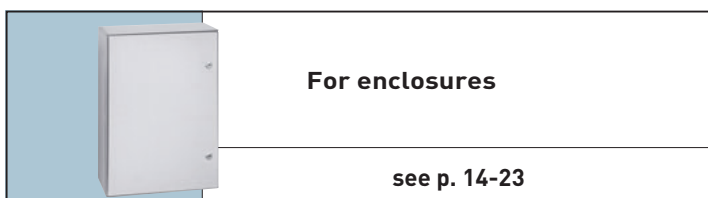
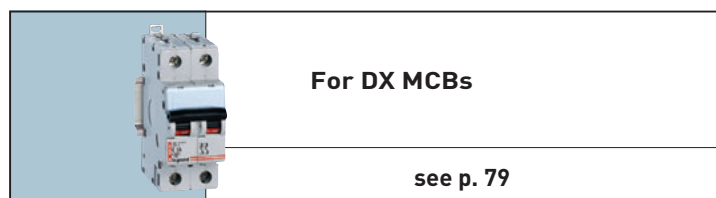
Pack	Cat. Nos.	Modular fuse carrier accessory
3	0057 99	Padlock support suitable for Ø 5 mm padlocks

Modular device accessories

10	0044 40	Spacing elements	
5	0044 41	For heat reduction - 0.5 module	
		For heat reduction - 1 module	
2	0044 42	Locking device	
		Attachment for Ø 5 mm and Ø 6 mm padlocks for DX-H and DX-D	
3	0044 43	Padlock	
		Ø 5 mm	
20	0049 05	Entry terminals	
		Accepts conductors 4-25 mm² max for single pole busbars only IP 2x	
20	0049 06	Accepts conductors 6-35 mm² max	
20	0049 26	Supply busbars	
		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⁾	
20	0049 88	Insulation shroud	
		For non-utilised busbar prongs	
10	0049 96	Self-adhesive label holder	
		Width : 16 mm	
		Width available for marking : 12 mm	
		Length 430 mm (24 modules)	
10	0016 65	Grey blanking plate RAL 7035	
		18 module, blanking strip	

Modular device accessories (continued)

5	0016 91	Protective terminal shield
		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)
10	0016 90	Insulated support
		For protective terminal shield
		Clips on to rail EN 60715



(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



Pack	Cat. Nos.	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.		
		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

Pack	Cat. Nos.	Type gG		
		Conform to BS EN 60269-1, IEC 60269-1 Bureau Veritas approved		
	Without indicator	Rating (Amps)	Voltage ~ (Volts)	Breaking capacity (Amps)
10	0123 01	1		
10	0123 02	2		
10	0123 04	4		
10	0123 06	6		
10	0123 08	8		
10	0123 10	10	400	20 000
10	0123 12	12		
10	0123 16	16		

Pack	Cat. Nos.	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		
		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	500	100 000
10	0143 16	16		
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	500	100 000
10	0153 16	16		
10	0153 20	20		
10	0153 25	25		
10	0153 32	32		
10	0153 40	40		
10	0153 50	50		
10	0153 63	63		
10	0153 80	80		
10	0153 96	100	400	
10	0153 97	125		

Pack	Cat. Nos.	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

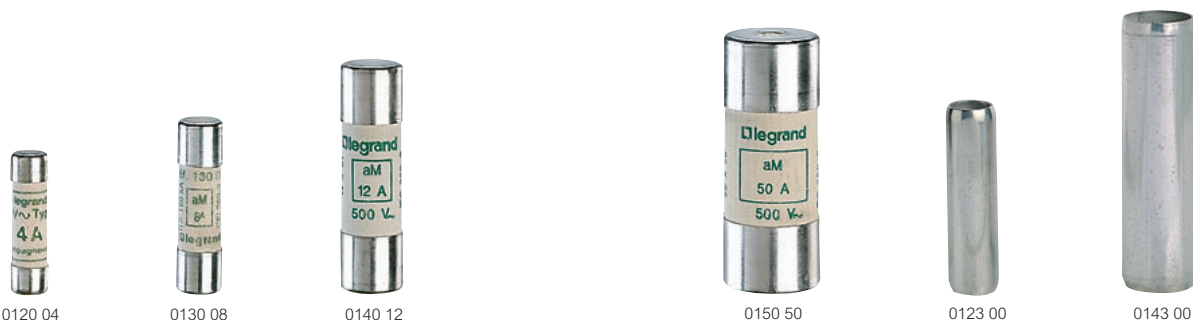
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**With a high breaking capacity
to suit industrial applications**

(1) Overrating not described by standards

cylindrical cartridge fuses

HRC (continued)



Dimensions (p. 95)

Pack	Cat. Nos.	Cylindrical type aM (motor rated)		
		Conform to BS EN 60269-1 (BS 88) IEC 60269-1 Bureau Veritas approved		
		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		
	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	

Pack	Cat. Nos.	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		
		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



For other ratings and types

Contact us on +44 (0) 845 605 4333

(1) Overrating not described by standards

HRC blade type cartridge fuses

gG/aM type



0163 35



0168 50



0165 55



0168 04



Dimensions (p. 95)

Pack	Cat. Nos.	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		
	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		

Pack	Cat. Nos.	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			
	With indicator	Rating (Amps)	Voltage ~ (Volts)	Breaking capacity (Amps)	
Size 00					
3	0160 25	40	400		
3	0160 30	50			
3	0160 35	63			
3	0160 40	80			
3	0160 45	100			
3	0160 50	125			
Size 0					
3	0165 35	63	500	120 000	
3	0165 40	80			
3	0165 45	100			
3	0165 50	125			
3	0165 55	160			
Size 1					
3	0170 50	125	500	120 000	
3	0170 55	160			
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			

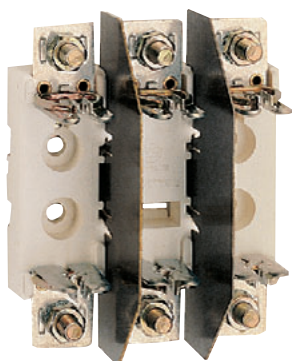
Neutral blades		
1	0168 04	Size 0
1	0173 04	Size 1
1	0178 04	Size 2
1	0181 04	Size 3

(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)

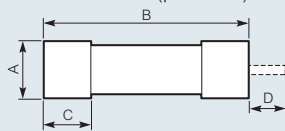
Pack	Cat. Nos.		Bases for blade type cartridge fuses		
			Conform to BS EN 60269-1 and 2, IEC 60269-1,2 and 2-1, VDE 0636-21 Bureau Veritas approved Triple pole bases supplied with 2 dividers Contact points are sprung Bases with 10 A – 250 V~ micro-switch have a “cartridge present” signalling device for fuses with standardised striker		
			Size 00 – 100 A		
	Single pole	Triple pole	Bases	Mounting	Connection
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		

Pack	Cat. Nos.	Accessories for blade type cartridge fuses
		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

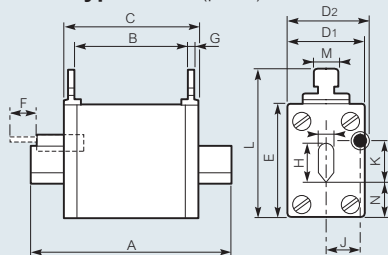
dimensions

■ 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

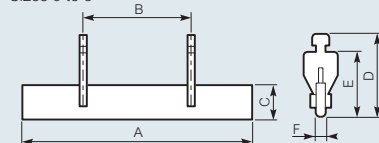
■ Blade type fuses (p. 93)



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

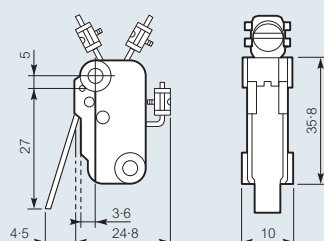
■ Neutral blades (p. 93)

Sizes 0 to 3



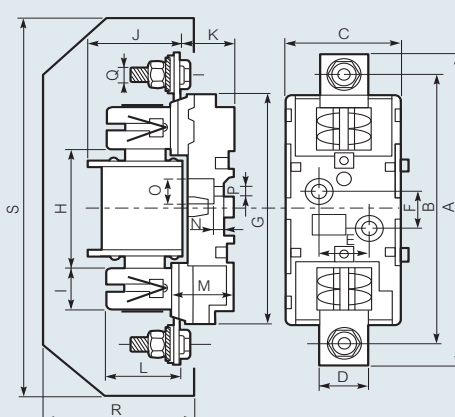
Size	0	1	2	3
A (mm)	125	135	150	150
B (mm)	65	65	65	65
C (mm)	15	20	26	38
D (mm)	45	50	58	66.5
E (mm)	35	40	48	56.5
F (mm)	6	6	6	6

■ Micro-switch 10 A – 250 V~



■ Bases for blade type fuses (p. 94)

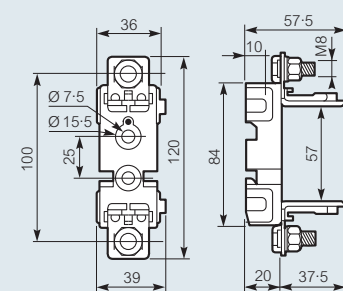
Bare



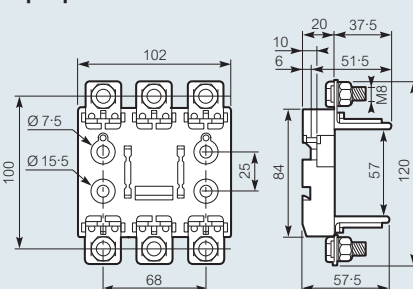
Size	00	0	1	2
A (mm)	120	171	200	225
B (mm)	100	150	175	200
C (mm)	36	47	59	67
D (mm)	24	20	25	30
E (mm)	—	—	30	30
F (mm)	25	25	25	25
G (mm)	120	125	150	170
H (mm)	57	75	80	80
I (mm)	11	23	28	32
J (mm)	63	68	68	83
K (mm)	20	24	35	35
L (mm)	35	43	46	58
M (mm)	22.5	28	38	39
N (mm)	12	11.5	13.5	13.5
O (mm)	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)

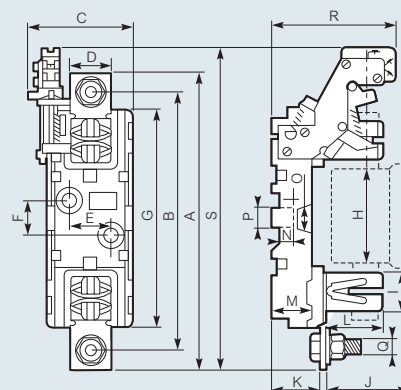
Single pole



Triple pole

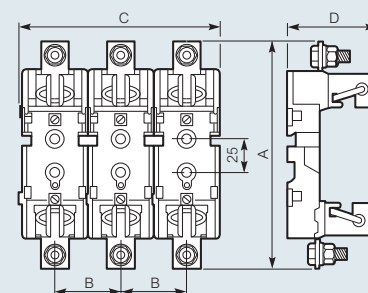


■ With micro-switch (p. 94)



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

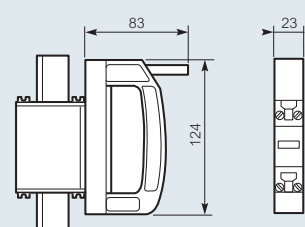
Triple pole (p. 94)



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



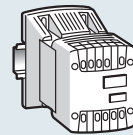
Isolation, control and signalling

Isolating and
changeover
switches



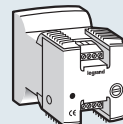
P. 100
Isolating
switches
16 to 125 A

Transformers



P. 106
Control,
signalling and
safety isolation
transformers

Power supplies



P. 112
Filtered
power supplies

Signalling

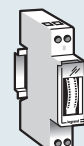


P. 114
Power
contactors

Time switches
and light control
switches



P. 120 NEW
AlphaRex³
programmable
digital for rail



P. 125 NEW
MicroRex
analogue for
rail

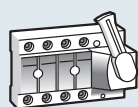
NEW IN 2012



**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



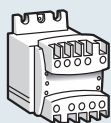
P. 103
Changeover
switches



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



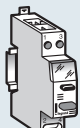
P. 112
Filtered
power supplies
technical
information



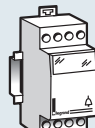
P. 113
Filtered
power supplies
electrical
characteristics



P. 115
Power contactors
technical
information



P. 116
Push buttons/
control switches
and indicators



P. 116 NEW
Transformers
and buzzers



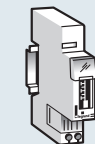
P. 117
Modular DIN
rail equipment
dimensions



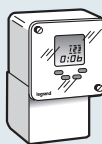
P. 120 NEW
AlphaRex³ Astro
programmable
digital for rail



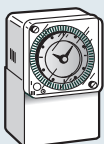
P. 123 NEW
MicroRex D Plus
digital for rail



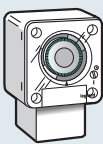
P. 123
MicroRex D
digital for rail



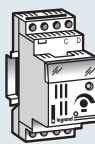
P. 124
MaxiRex
digital surface or
panel mounting



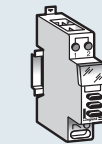
P. 126
MaxiRex
analogue
surface and
panel mounting



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



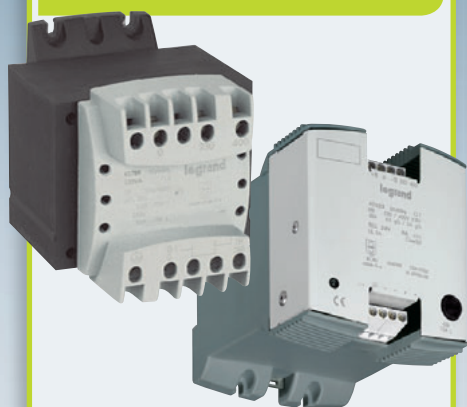
Vistop isolating switches

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 AlphaRex' 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



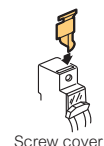
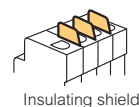
Dimensions (p. 117)

Conform to IEC 60669-1
Breaking capacity AC 22 A according to BS EN 60947-3
Double break contacts
Visible contact indicator

Pack	Cat. Nos.	Isolating switches		Number of 17.5 mm modules
		Nominal rating (A)		
		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
2	0043 38	125		2

Pack	Cat. Nos.	Isolating switches (continued)		Number of 17.5 mm modules
		Nominal rating (A)		
		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	
2	0044 42	Locking device Attachment for Ø 5 mm padlock	
3	0044 43	Padlock Ø 5 mm	
2	0044 44	Sealable screw cover 4 separate poles	
6	0044 47	Insulating shield Insulating shield	

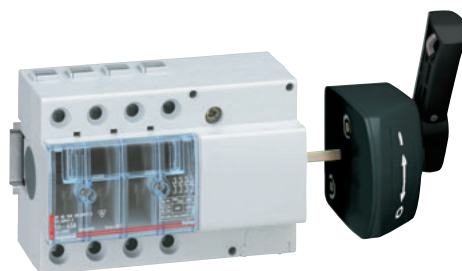


Vistop™ isolating switches

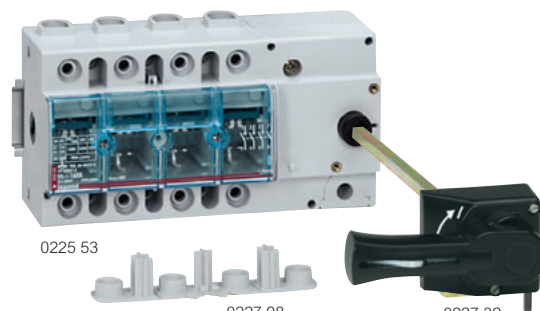
63 to 160 A



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 :

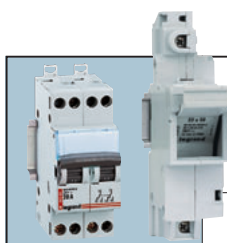
- **left or right side handle**, supplied with seal to maintain the IP protection of the enclosure (up to IP 55), screws, self adhesive drilling template, extension rod (30 to 170 mm) for creating an external angle
- **direct front handle or external handle** with Cat. No. 0227 32

Pack	Cat. Nos.		Vistop isolating switches with black handle - 63 to 160 A		
			Possibility to add auxiliary contact Cat. No. 0227 07		
			63 A		Number of 17.5 mm modules
	Front handle	Side handle	3P	Connection	
1	0225 12	0225 16	4P	Cage terminals	7
1	0225 15	0225 18			7
			100 A		
1	0225 20	0225 25	3P	Key	7.5
1	0225 22	0225 27	4P	6 sides	9
			125 A		
1	0225 34	0225 44	3P	Key	7.5
1	0225 39	0225 46	4P	6 sides	9
			160 A		
1	0225 51	0225 54	3P	Key	7.5
1	0225 53	0225 56	4P	6 sides	9

Pack	Cat. Nos.	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		
			Connection	Number of 17.5 mm modules
1	0227 22	2 P	Cage terminals	1.5
			Sealable terminal shields	
1	0227 98	Set of 2 separate, sealable terminal shields Clip on upstream and/or downstream of Vistop 160 A		

Pack	Cat. Nos.	Front external handle kit
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 Door distance 35 to 470 mm

Pack	Cat. Nos.	Auxiliary switches for on-off signalling IP 2x - 5 A - 250 V
		N/O + N/C contact For incorporation in one-piece enclosure
1	0227 04	Main contact 2 N/C + 2 N/O mounting
1	0227 07	Additional N/C + N/O auxiliary contact 2 N/C + 2 N/O mounting
		Connection (mm²) lug 2-58



For changeover switches and fuse carriers

see p. 103 and 89

Vistop™ isolating switches

63 to 160 A

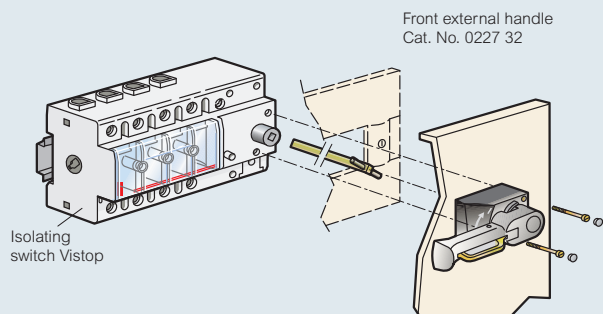
Conform to standards BS EN 60947-3, EN / IEC 60947-3, VDE 0660, NBN EN 60947-3, CNOMO E03 - 15-611 R, Bureau Veritas approved
Glass fibre reinforced insulating casing, self-extinguishing at 960 °C (IEC EN 60695-2-1)
Handle can be padlocked in open position using 1 to 3 padlocks Ø6 mm

Electrical characteristics

Thermal rating (Ith)	63 A	100 A	125 A	160 A
Terminals	cage	cage	cage	cage
Connection	Cu (flexible)	4 to 35 ²		
	Cu (rigid)	4 to 50 ²		
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)
	500 V	63 A (44 kW)	100 A (69 kW)	125 A (87 kW)
AC 23 A ⁽¹⁾	690 V	40 A (38 kW)	100 A (96 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 (Icw) (kA rms)	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 (Ics 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 mm ²	IP 2x B (IP 3x C under front plate) from 10 mm ²		

- (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

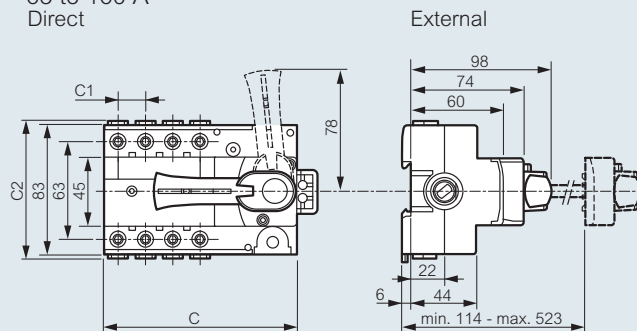
Example of mounting with Vistop 100 to 160 A



Dimensions

Front handle

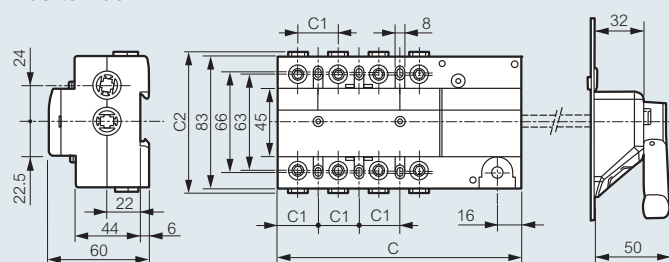
- 63 to 160 A



	Front handle		
	63 A 3P and 4P	100 A, 125 A, 160 A 3P	4P
C	125	133	160
C ₁	17.7	26.7	
C ₂	90	91	

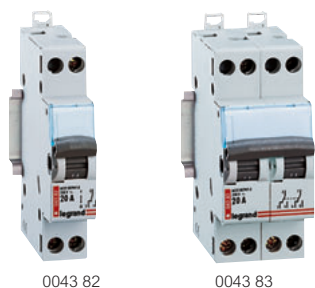
Side handle

- 63 to 160 A



	External side handle		
	63 A 3P and 4P	100 A, 125 A, 160 A 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	No. of 17.5 mm modules
10	0043 82	Conform to IEC 60669-1 Breaking capacity AC 22 A according to BS EN 60947-3 Nominal rating (A) 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 Attachment for Ø 5 mm padlock
3	0044 43	Padlock Ø 5 mm

changeover switches

■ Protection index

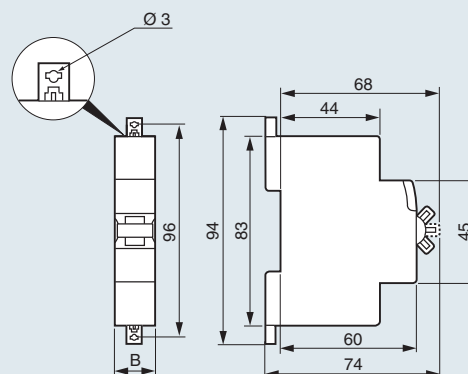
Class II
IP 2x protection against direct contact

■ 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 mm ²
Rigid	1.5 to 4 mm ²
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 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



control, signalling and safety isolation transformers

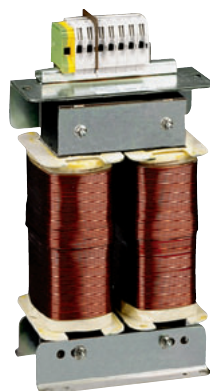
open type single phase



0442 35



0442 68



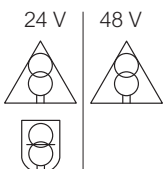
0442 71



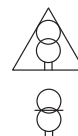
Dimensions and technical information (p. 107)

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

Pack	Cat. Nos.	Single phase		
		Primary : 230-400 V ± 15 V Secondary : 24-48 V Supplied with 2 links		
		Power in VA according to IEC and CSA	Power in VA according to UL	Admissible instantaneous power at cos φ = 0.5
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



Pack	Cat. Nos.	Single phase		
		Safety isolating transformers Primary : 230-400 V ± 15 V Secondary : 115-230 V Supplied with 2 links		
		Power in VA according to IEC and CSA	Power in VA according to UL	Admissible instantaneous 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

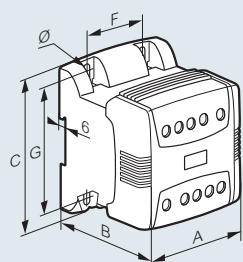


Fig. 2 : 630 to 1 000 VA

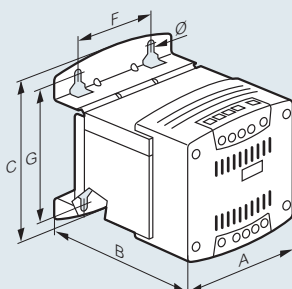


Fig. 3 : 1 600 to 2 500 VA

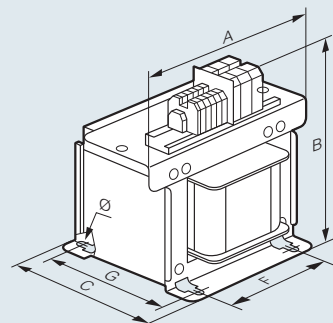
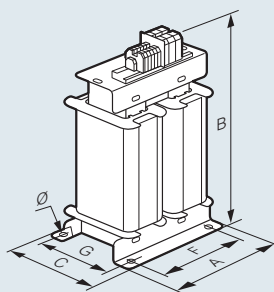
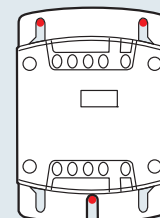
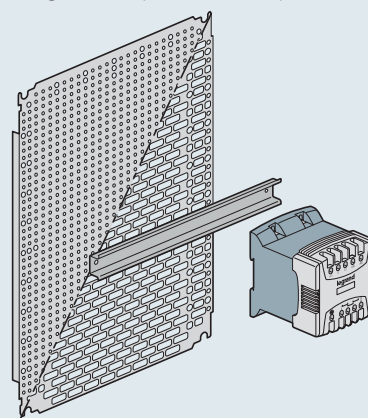


Fig. 4 : 4 000 to 8 000 VA



■ 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 1000 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	1000	2	150	199	206	100	175	7	14-9
0442 39/69	1600	3	220	245	191	150	153	9	25-6
0442 40/70	2500	3	300	292	171	200	114	9	33-1
0442 71	4000	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

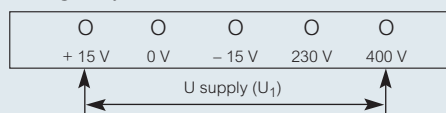
■ Electrical characteristics

Single phase 50-60 Hz - Class 1

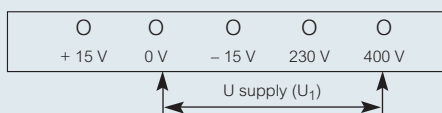
Insulation voltage between windings : 4 510 V

Maximum ambient operating temperatures : 50 °C without derating

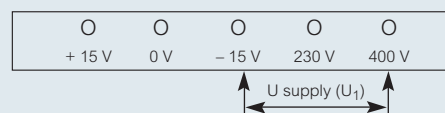
Voltage adjustment



- 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 $I_2 = I_{2n}$



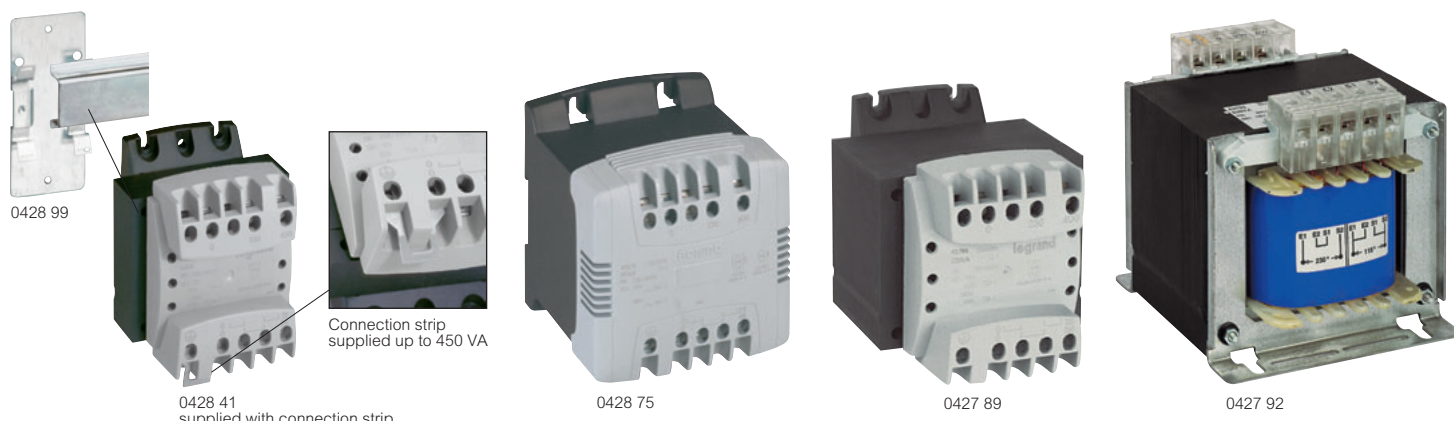
if $U_1 < 230$ or 400 V with load $I_2 = I_{2n}$

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	1800	1300	1100	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	2700	2200	1900	1700	1500	1300	1200	1200	1200	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	1000	3400	2800	2300	2000	1800	1600	1500	1400	1300	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	1600	12800	10900	9500	8500	7700	7100	6700	6400	6600	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	2500	4300	3900	3600	3300	3100	3000	2900	2900	3400	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	2200	1700	1400	1200	1000	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	2700	2200	1800	1600	1400	1200	1100	1000	1000	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	1000	3400	2800	2300	2000	1800	1600	1500	1400	1300	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	1600	8700	7500	6600	6100	5400	5000	4700	4500	4700	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	2500	9200	8300	7600	7100	6700	6300	6200	6100	7100	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	4000	16500	14300	12700	11400	10500	9800	9200	8900	9500	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



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

Pack	Cat. Nos.	Single phase	
Safety isolating transformers			
Primary : 230-400 V			
Secondary : 12-24 V			
		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			
		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			
		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



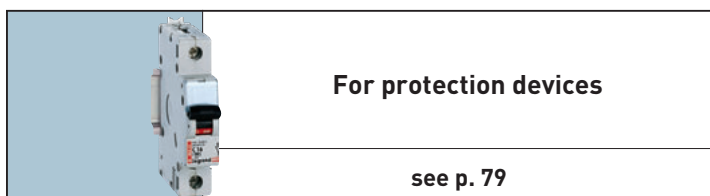
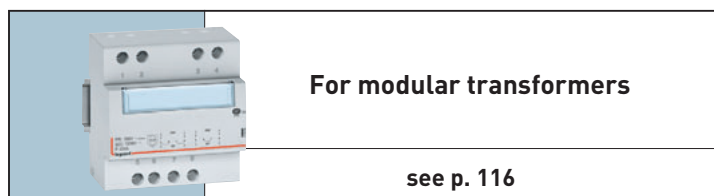
Pack	Cat. Nos.	Single phase	
		Isolating transformers	
		Primary : 230-400 V	
		Secondary : 115 V	
		With centre tap	
		Power in VA according to IEC/EN	Admissible instantaneous power at cos 0.5
1	6423 62	63 VA	91
1	6423 63	100 VA	140
1	6423 64	160 VA	205
1	6423 65	220 VA	290
1	6423 66	310 VA	345
1	6423 68	630 VA	1 520
		Isolating transformers	
		Primary : 230-400 V	
		Secondary : 115-230 V	
		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

10	0044 16	Clips for fixing up to 160 VA on to rail EN 60715
		Claw width 10 mm Threaded hole for M4 screws (Use two clips per transformer)
5	0428 99	Mounting bracket DIN rail mounting bracket

Note : Other VA ratings available on request. Please consult us



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

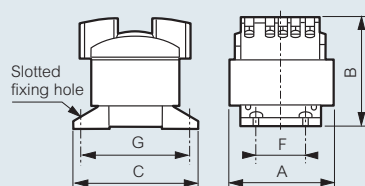


Fig. 2 - 310 VA⁽¹⁾

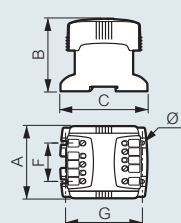
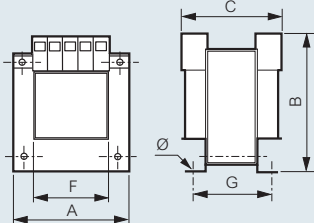


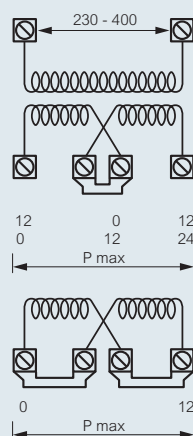
Fig. 3 - 450 to 630 VA



(1) Subject to secondary voltage (see tables)

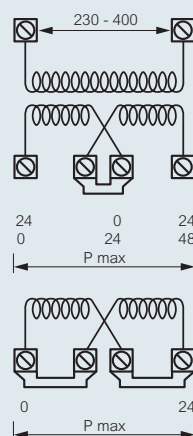
Primary : 230 - 400 V
Secondary : 12 - 0 - 12 V
0 - 12 - 24 V

Cat. Nos.
0428 40 to 0428 47



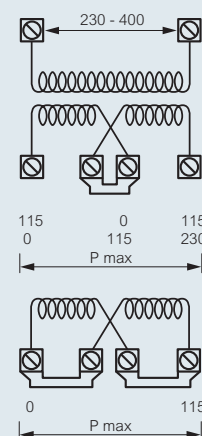
Primary : 230 - 400 V
Secondary : 24 - 0 - 24 V
0 - 24 - 48 V

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 $\cos \varphi$ 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 :

$$P_{\text{inrush}} = 0.8 (\Sigma P_m + \Sigma P_v + P_a)$$

ΣP_m : sum of all contactor steady state power levels (holding power)

ΣP_v : sum of all power levels of indicators and LEDs⁽¹⁾

P_a : 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 $\cos \varphi$ 0.5
- 20 remote control relays, with a steady state power of 4 VA
- 30 signalling LEDs, with a consumption of 1 VA each

$$- \Sigma P_m = 220 \text{ VA } \{ (10 \times 8 \text{ VA}) + (2 \times 20 \text{ VA}) + (1 \times 20 \text{ VA}) + (20 \times 4 \text{ VA}) \}$$

$$- \Sigma P_v = 30 \text{ VA } (30 \times 1 \text{ VA})$$

$$- P_a = 250 \text{ VA}$$

$$P_{\text{inrush}} = 0.8 (220 + 30 + 250) = 400 \text{ VA at } \cos \varphi \text{ 0.5}$$

■ Determination of the rated power of a transformer

For control transformers, in particular, simply start with an inrush power at $\cos \varphi$ 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 $\cos \varphi$ 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 $\cos \varphi$ 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

$VA \div V = \text{current in the winding}$
either PRIMARY or SECONDARY

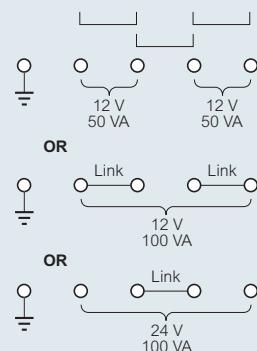
$$\text{i.e. } \frac{300 \text{ VA}}{12 \text{ V}} = 25 \text{ A} \times 25 = 625 \text{ A}$$

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.

■ 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 :

$$I_{c/c \text{ min.}} = \frac{U_s}{\left(\frac{U_s^2}{P} \times \frac{U_{c/c \%}}{100} \right) + \frac{2\rho l}{S}}$$

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

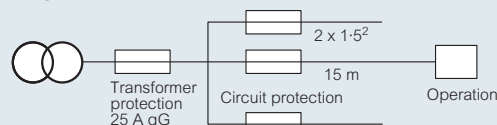
ρ copper = 0.027 Ω mm²/m

Choose the protection rating so as to obtain a cut-off time of 5 seconds max. for a current I c/c defined above :

$$\text{type gG fuse : } I_n \leq \frac{I_{c/c \text{ min.}}}{4}$$

$$\text{type C MCB : } I_n \leq \frac{I_{c/c \text{ min.}}}{8}$$

Example : control transformer 630 VA - 230/24 V Cat. No. 0442 37



$$I_{c/c \text{ min.}} = \frac{24}{\left(\frac{24^2}{630} \times \frac{3.3}{100} \right) + \frac{2 \times 0.027 \times 15}{1.5}} = 44.42 \text{ A} = \text{Use either :}$$

$$\frac{44.42}{4} = 11.10 \rightarrow \text{gG fuse 10 A max.} \quad \frac{44.42}{8} = 5.55 \rightarrow \text{C type MCB 5 A max.}$$

■ 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	

(1) In = nominal rating of circuit

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 $\perp$ 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

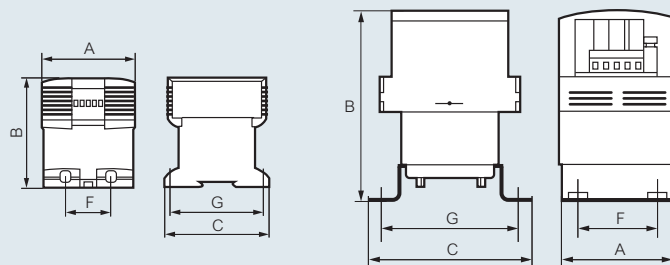
Pack	Cat. Nos.	Single phase filtered				
		12 V$\perp$ output 230-400 V $\pm$ 15 V $\sim$ (input) / 12 V $\perp$ (output)				
		Power (W)	Current rating (A)	Terminal capacity (mm ²) Flexible cable		
				Input	Output	
1	0470 01	12	1	6	6	
1	0470 02	30	2.5	6	6	
1	0470 03	60	5	6	6	
1	0470 04	120	10	6	6	
		24 V$\perp$ output 230-400 V $\pm$ 15 V $\sim$ (input) / 24 V $\perp$ (output)				
		Power (W)	Current rating (A)	Terminal capacity (mm ²) 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	



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 $\perp$	-	1.00
0470 02	93	121	105	DIN $\perp$	4-6	2.45
0470 03	105	135	115	DIN $\perp$	4-6	3.60
0470 04	126	186	175	75 x 150	5-5	6.35
0470 20	68	98	88	DIN $\perp$	-	1.00
0470 21	68	98	88	DIN $\perp$	-	1.00
0470 22	93	121	105	DIN $\perp$	4-6	2.45
0470 23	105	135	115	DIN $\perp$	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 $\sim$ $\pm$ 15 V single phase 50/60 Hz - Class I

Output voltage : 12 V $\perp$ or 24 V $\perp$

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 $\perp$ 7.5 mm or 15 mm depth EN 60715

Screw fix only Cat. Nos. 0470 04/24 and 25

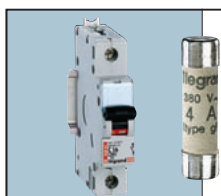
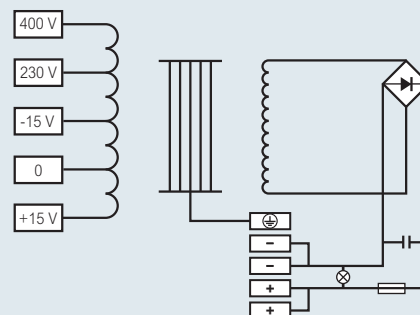
Screw fix or clip on to DIN rail Cat. Nos. 0470 02/03/22 and 23

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



For MCBs see p. 79
For fuses see p. 91

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

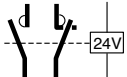
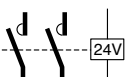


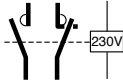
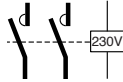
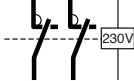
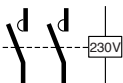
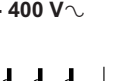
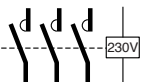
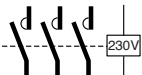
Technical information (p. 115)
Dimensions (p. 117)

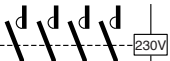
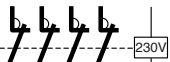
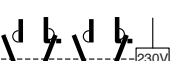
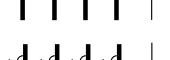
Conform to EN 61095

Power contactors have a handle covered with a blanking plate

Stop or start override without automatic return is possible (use tool)

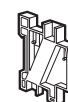
Pack	Cat. Nos.	Power contactors with 24 V~ coil			
		Double pole (L + N) - 250 V~			
		24 V~ coil		Type of contact	Number of 17.5 mm modules
1	0041 14	I max. 16 A		N/C + N/O	1
1	0041 16	25 A		2 N/O	1

Power contactors with 230 V~ coil					
Double pole (L + N) - 250 V~					
230 V~ coil			Type of contact	Number of 17.5 mm modules	
		I max.			
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			Type of contact	Number of 17.5 mm modules	
		I max.			
1	0040 69	40 A		3 N/O	3
1	0040 77	63 A		3 N/O	3

Pack	Cat. Nos.	Power contactors with 230 V~ coil (continued)			
		Four pole - 400 V~			
		230 V~ coil		Type of contact	Number of 17.5 mm modules
5	0041 31	I max. 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					
1	0041 85	I max. 5 A	Voltage 250 V~	Changeover switch N/C + N/O	Number of modules 0.5
For 2 module contactors 25 A					
Maximum 2 auxiliary devices per contactor Fitted on left-hand side of contactor					
1	0041 83	I max. 5 A	Voltage 250 V~	Changeover switch N/C + N/O	Number of modules 0.5
For 40 and 63 A contactors					
Maximum 1 auxiliary device per contactor Fitted on left-hand side of contactor					
1	0040 85	I max. 5 A	Voltage 250 V~	Changeover switch N/C + N/O	Number of modules 0.5

Pack	Cat. Nos.	Accessory
10	0044 40	Spacing unit 0.5 module To be placed between every 2 contactors to aid cooling



power contactors

■ Technical characteristics

- Rated impulsive resistant current (Uimp) : 4 kV
- Mechanical endurance (No. of operating cycles) : 10⁶
- 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 I_q = 6 kA

I_q = 6 kA for 16 to 25 A contactors

I_q = 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	1000 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	15	15	8	8
	25 A	28	28	28	26	17	17	10	10
	40 A	75	75	75	65	40	40	22	22
	63 A	105	105	105	93	58	58	33	33
Single parallel compensated	16 A	16	16	16	16	11	11	6	6
	25 A	18	18	18	18	13	13	6	6
	40 A	40	40	40	40	30	30	14	14
	63 A	60	60	60	60	43	43	20	20
Double serial compensated	16 A	—	32	32	18	18	11	7	7
	25 A	—	38	38	21	21	13	9	9
	40 A	—	85	85	45	45	29	18	18
	63 A	—	120	120	65	65	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 I_q = 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
I _e = 16 A	16 A	14 A	12 A	10 A
I _e = 25 A	25 A	22 A	20 A	18 A
I _e = 40 A	40 A	36 A	32 A	29 A
I _e = 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) : 10⁶

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 2 N/O	N/O + N/C 2 N/O 2 N/C	2 N/O + 2 N/C 4 N/O 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 4 N/O
Number of modules	2	3
Holding	15 mA	30 mA
Inrush	150 mA	200 mA

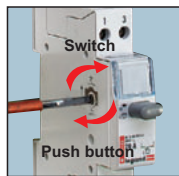
Max. connection cross section in mm²

Type of conductor	Ratings ≤ 25 A	Ratings 40 and 63 A
Rigid	1 x 6 ² or 2 x 2.5 ²	1 x 25 ² or 2 x 10 ²
Flexible	1 x 6 ² or 2 x 2.5 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



4130 91



4130 98



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 Supplied with 230 V~ E10 lamp		1
10	0044 64	1 N/C + red indicator ⁽¹⁾ Supplied with 230 V~ E10 lamp		1
10	0044 68	1 N/O (green) + 1 N/C (red)		1

Pack	Cat. Nos.	Indicators - 250 V~		Number of 17.5 mm modules
Supplied with replaceable diffuser and lamp E10 - 230 V~ Allow supply busbar to be inserted				
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				
Supplied with 230/400 V~ non-replacement lamps				
2	0031 43	3 colourless neon lamps		0.5

Pack	Cat. Nos.	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



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

Pack	Cat. Nos.	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)			
		230 V / 8 V			
		Secondary (V)	Rating (A)	Power (VA)	Number of 17.5 mm modules
1	4130 90	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

NEW

1	4130 95	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

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

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
16	2.5	34.6	60	27.5	0.10	4
25	2.5	29	66	23.3	0.14	4
40	4	17.9	68	14.4	0.22	5
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															
		<table><tr><th>Voltage (V ~)</th><th>Power (VA)</th><th>Consum. (mA)</th><th>P ⁽¹⁾ (dB)</th><th>Number of 17.5 mm modules</th></tr><tr><td>24</td><td>4</td><td>180</td><td>73</td><td>1</td></tr><tr><td>230</td><td>4</td><td>21</td><td>73</td><td>1</td></tr></table>	Voltage (V ~)	Power (VA)	Consum. (mA)	P ⁽¹⁾ (dB)	Number of 17.5 mm modules	24	4	180	73	1	230	4	21	73	1
Voltage (V ~)	Power (VA)	Consum. (mA)	P ⁽¹⁾ (dB)	Number of 17.5 mm modules													
24	4	180	73	1													
230	4	21	73	1													
5	0041 11																
10	0041 13																

(1) Acoustic power a 1 m

transformers and buzzers

modular DIN rail equipment

dimensions

■ Operating principle

Bell transformers

Safety isolating transformer with secondary voltage not permanently exceeding 24 V and for a non permanent usage

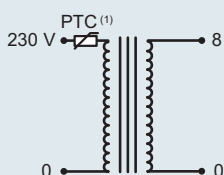
Power to 8 V-12 V or 24 V access control devices such as:

- bell
- chime
- door release
- optical electrical barrier

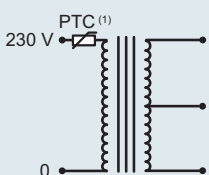
Also:

- flood detector
- temperature rise detector

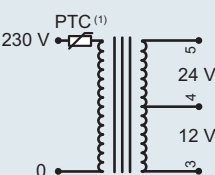
Cat. No. 4130 90



Cat. No. 4130 91



Cat. No. 4130 93



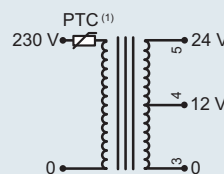
Safety transformers

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:

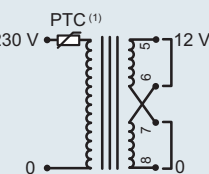
- relay
- modular power contactor
- signalling unit
- latching relay

Cat. Nos. 4130 95/96

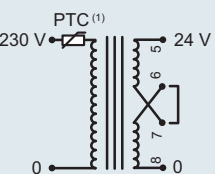


Cat. Nos. 4130 97/98

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

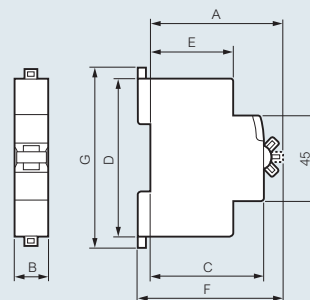
■ Connection

	Primary flexible or rigid	Secondary flexible or rigid
	1 to 4 mm ²	1 to 4 mm ²

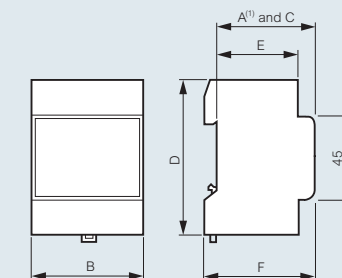
■ Equivalence chart

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
		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
63 - 100 - 125 A	68	17-7	35-6	53-4	71-2	60	83	44	74
Changeover switches Cat. Nos. 0043 82/85	68	17-7				60	83	44	74
Cat. No. 0043 83	68	35-6				60	83	44	74
Push buttons/control switches and indicators	68	17-7				60	83	44	74
Contactors ≤20 A	62	17-8	17-8	35-6	35-6	60	83	44	67-5
Buzzers	60	17-5				60	76	44	66



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	66
	Cat. No. 4130 93	60	72	60	84	66
	Cat. Nos. 4130 95/96	60	72	60	84	66
	Cat. Nos. 4130 97/98	60	89	60	95	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.





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



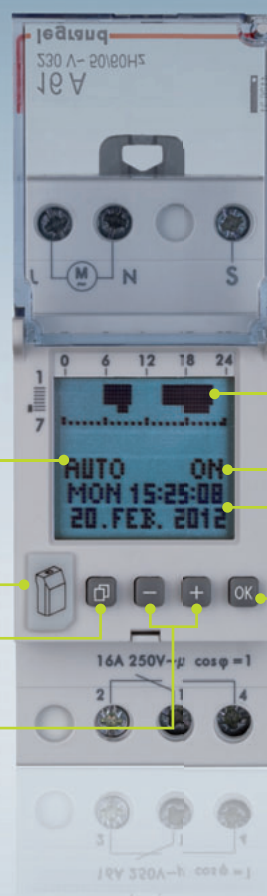
Yearly time switch
1 + 2 channel
DIN rail mountable

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

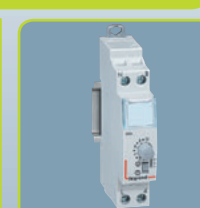


MaxiRex & EconoRex
analogue time switches
Surface / panel
mounting
see p. 126

LIGHTING CONTROL



Light sensitive switch
For lighting control
see p. 127



Time lag switch
For lighting control
see p. 127



AlphaRex³ programmable time switches 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 $+55^{\circ}\text{C}$
Protection : IP 20
Switching increment : 1 minute
Shortest switching time : 1 minute

Pack	Cat. Nos.	AlphaRex ³	No. of 17.5 mm modules
1	4126 31	Weekly time switches 24h / 7 day programme time Particularly suited to irregular cycles (e.g. security installations and industrial installations) Random function to simulate presence - programmed switching cycles are shifted at random with a range of ± 15 minutes Additional functions : Operating hours counter (for max. 65,535 hours) 1 hour test Cycle function Holiday programme AlphaRex D21 230 V 24 hr / 7 day single channel 1 x 16 A output 56 programmes	2
1	4126 41	AlphaRex D22 230 V 24 hr / 7 day two channel 2 x 16 A outputs 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 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 Data key can be stored directly within the time switch
1	4128 73	Programming software kit Create and read programmes remotely via a PC Transfer programmes via transfer key Cat. No. 4128 72 to time switches Kit comprises : AlphaSoft 4.0 software, data loader and transfer key Windows [®] Vista compatible

(1) Windows is a registered trademark of the Microsoft Corporation



AlphaRex³ Astro programmable time switches 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 $+55^{\circ}\text{C}$
Protection : IP 20
Switching increment : 1 minute
Shortest switching time : 1 minute

Pack	Cat. Nos.	AlphaRex ³ Astro light control	No. of 17.5 mm modules
1	4126 54	Weekly time switches 24h / 7 day programme time Particularly suited to outdoor lighting and street signage applications Enables the daily astronomical calculation of sunrise and sunset by inputting local position or coordinates (no need to install a light sensor) 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 To save energy, it is also possible to programme an ON and OFF time at night Time saving programming due to pre-set groups of days : Mon-Sun, Mon-Fri, or Sat-Sun and individual selection of days Programmes are shown as a weekly matrix on the graphic display Additional functions : Operating hours counter (for max. 65,535 hours) 1 hour test Holiday programme AlphaRex Astro D21 230 V 24 hr / 7 day single channel 1 x 16 A output 56 programmes	2
1	4126 57	AlphaRex Astro D22 230 V 24 hr / 7 day two channel 2 x 16 A outputs 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 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 Data key can be stored directly within the time switch
1	4128 73	Programming software kit Create and read programmes remotely via a PC Transfer programmes via transfer key Cat. No. 4128 42 to time switches Kit comprises : AlphaSoft 4.0 software, data loader and transfer key Windows [®] Vista compatible

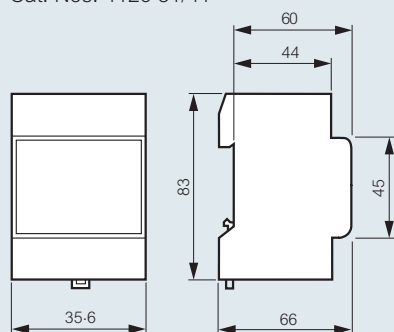
(1) Windows is a registered trademark of the Microsoft Corporation

AlphaRex³ programmable time switches

digital for rail

■ Dimensions (mm)

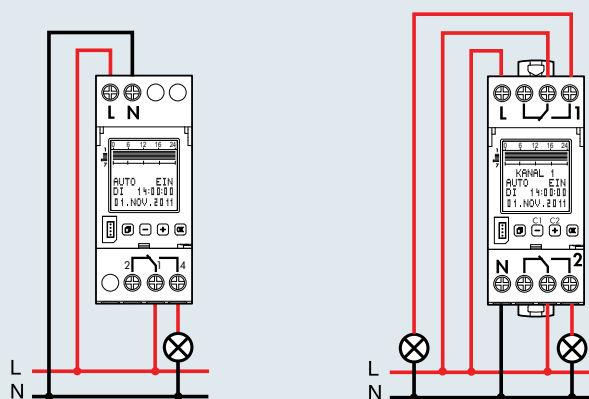
Cat. Nos. 4126 31/41



■ Wiring diagrams

Cat. No. 4126 31

Cat. No. 4126 41



■ Technical information

Type Cat. No.	AlphaRex ³ D21 4126 31	AlphaRex ³ D22 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 max, 70µF	
Switching step	1 minute	
Min. switching time	1 minute	
Accuracy	±0.1 seconds per day	
Terminal capacity	Single strand 1.5 to 4mm ²	
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

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

Confirm selection or load parameters

C1 C2

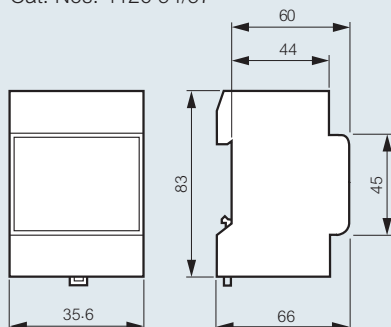
- Select menu options or set parameters
- Channel selection

AlphaRex³ Astro programmable time switches

light control – digital for rail

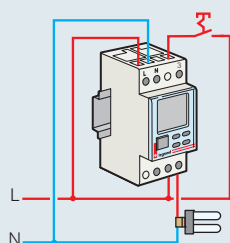
■ Dimensions (mm)

Cat. Nos. 4126 54/57

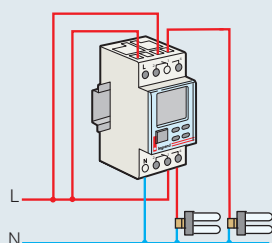


■ Wiring diagrams

Cat. No. 4126 54

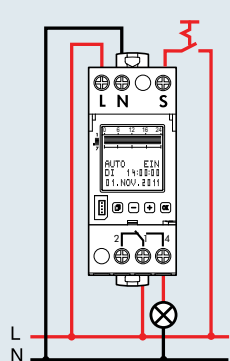


Cat. No. 4126 57

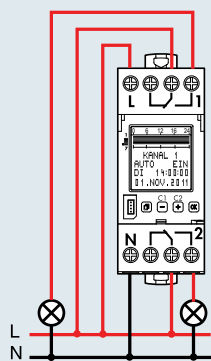


Output closing and breaking times are calculated based on the date, the actual time when the device was switched and on geographical coordinates of the actual location

Cat. No. 4126 54



Cat. No. 4126 57



■ 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

Confirm selection or load parameters

Select menu options or set parameters

■ Technical information

Type Cat. No.	AlphaRex ³ Astro D21 4126 54	AlphaRex ³ Astro D22 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. setting	1 second	
Accuracy	±0.1 seconds per day	
Terminal capacity	Single strand 1.5 to 4mm ²	
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

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

Confirm selection or load parameters

C1 C2
 Select menu options or set parameters
 Channel selection

MicroRex D digital time switches for rail



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
1	6037 70	UK specific English display Supply voltage : 220 V~ 50 Hz CE approved 16 A 56 programmes per channel 3 years working reserve Accuracy : 1 second clock precision Switching precision : 1 minute	2
1	6037 71	MicroRex D21 Plus 1 channel	2
1	6037 71	MicroRex D22 Plus 2 channels	2

1	6047 74	MicroRex D21 Plus 24 hour or 7 day, 28 programme 1 channel 1 x 16 A voltage free c/o contact	2
1	6047 77	MicroRex D22 Plus 24 hour or 7 day, 2 x 14 programme 2 channel 2 x 16 A voltage free c/o contacts	2

1	0037 00	MicroRex D11 Supply voltage : 230 V~ 50/60 Hz Working reserve : 100 hours Accuracy : ± 2.5 seconds per day 7 day programme Programmable for 1 minute min. at 1 minute steps Additional features : Manual advance/override (ON-OFF) Automatic override (ON-OFF) for holidays, weekends or bank holidays up to 99 days successively Automatic summer/winter setting	1
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MicroRex D digital time switches for rail

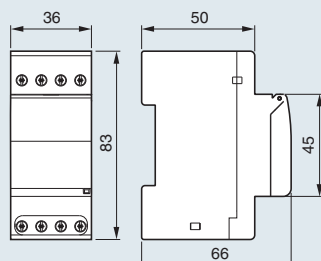
Technical information

Type Cat. No.	MicroRex D21 Plus 6047 74	MicroRex D22 Plus 6047 77	MicroRex D11 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 incandescent lamp cos φ = 0.6	16 A 5 A 8 A		16 A 4 A 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

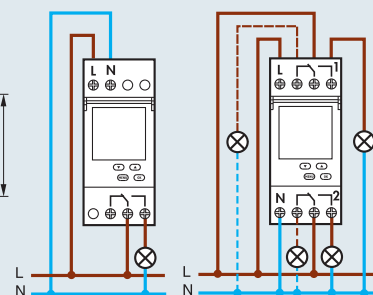
(1) For time and date only

Dimensions (mm) and wiring diagrams

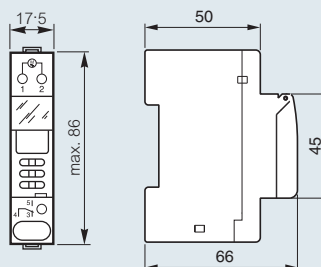
MicroRex D21/D22 Plus



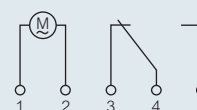
Wiring diagram



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 Programmable for 1 minute min. at 1 minute steps either as 24 hour/7 day using pre-set groups of days 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 <i>Example :</i> Prog. 1 On 07.00hrs Off 08.15hrs Mon-Fri Ch1 Prog. 2 On 16.00hrs Off 20.15hrs Mon-Fri Ch2 Prog. 3 On 10.00hrs Off 16.15hrs Sat-Sun Ch1 Additional features : EEPROM memory stores programme indefinitely Optional automatic summer/winter time change Manual override (ON or OFF) Automatic advance (changes contact position until next automatic ON time)
1	0496 80	MaxiRex D72/1 Plus 24 hour or 7 day 28 programme 1 channel 1 x 16 A voltage free c/o contact
1	0496 82	MaxiRex D72/2 Plus 24 hour or 7 day 2 x 14 programme 2 channel 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

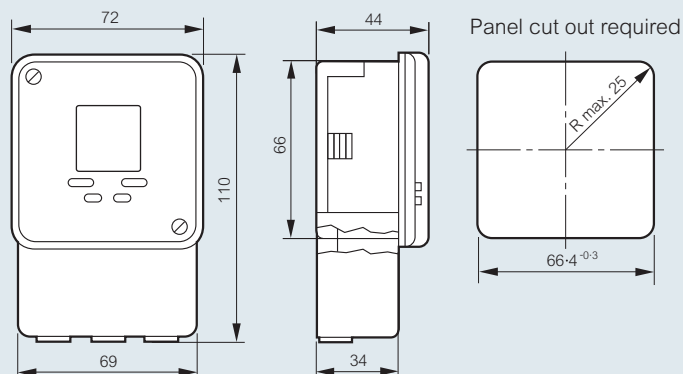
surface or 72 x 72 mm panel mounting

Technical information

Type Cat. No.	MaxiRex D72/1 Plus 0496 80	MaxiRex D72/2 Plus 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 : cos φ = 1 incandescent lamp cos φ = 0.6	16 A 5 A 8 A	16 A 5 A 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

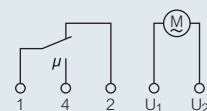
(1) For time and date only

Dimensions (mm)

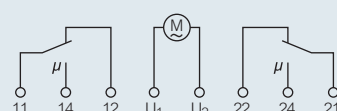


Wiring diagrams

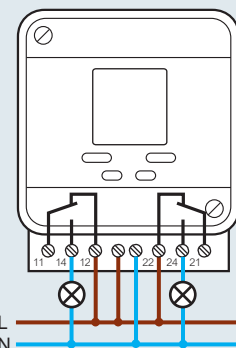
MaxiRex D72/1 Plus



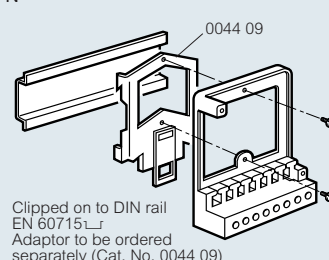
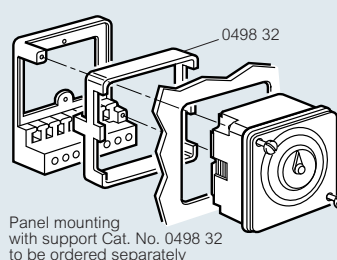
MaxiRex D72/2 Plus



MaxiRex D72/2 Plus



Mounting options



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
1	4127 80	24 hour programme One segment : 15 minutes Switching accuracy : ± 5 minutes T11 Daily 1 channel Without working reserve N/O contact Minimum switching time : 15 minutes Vertical dial
1	4127 90	QT11 Daily 1 channel With 100 hr working reserve N/O contact Minimum switching time : 15 minutes Vertical dial
1	4128 12	T31 Daily 1 channel Without working reserve Changeover switch Minimum switching time : 30 minutes Horizontal dial
1	4128 13	QT31 Daily 1 channel With 100 hr working reserve Changeover switch Minimum switching time : 30 minutes Horizontal dial

No. of
17.5 mm
modules
1

1

3

3

No. of
17.5 mm
modules
1

3

Pack	Cat. Nos.	Weekly programme
1	4127 94	7 day programme One segment : 2 hours Switching accuracy : ± 30 minutes QW11 Weekly With 100 hr working reserve N/O contact Minimum switching time : 2 hours Vertical dial
1	4127 95	QW31 Weekly With 100 hr working reserve Changeover switch Minimum switching time : 4 hours Horizontal dial

3

MicroRex

analogue time switches

for rail

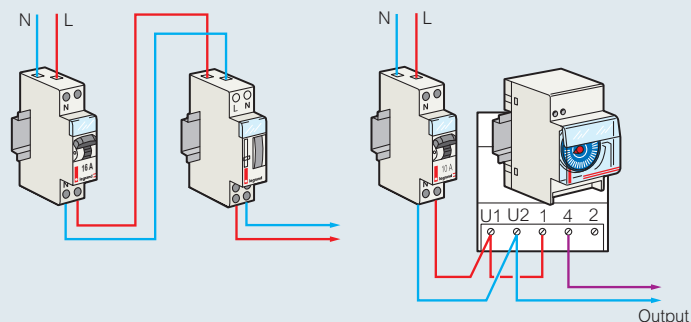
Technical information

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

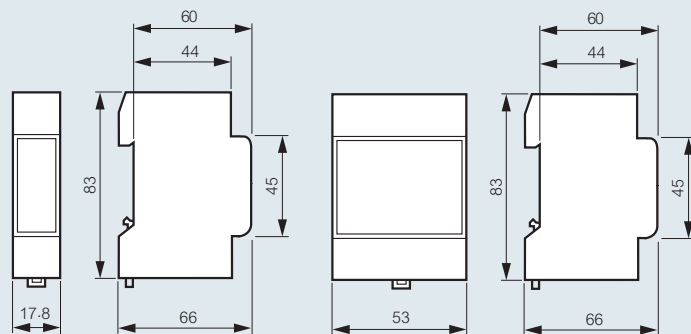


Output closing and breaking times are calculated based on the date, the actual time when the device was switched and on geographical coordinates of the actual location

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 Supply voltage : 230 V~ ±10% 3 position changeover switch With manual override Voltage free contacts Mounting options : - can be surface mounted - can be panel mounted using Cat. No. 0498 32 - can be clipped to DIN rail using Cat. No. 0044 09 With 72 x 72 mm display to DIN EN 60715 Part C 24 hour programme Programmable for 30 minutes minimum at 10 minute intervals Accuracy : ±5 minutes per day
1	0497 50	MaxiRex T Without working reserve – 50 Hz
1	0497 54	MaxiRex QT With 100 hr working reserve – 50/60 Hz
		7 day programme Programmable for 3 hours minimum at 1 hour intervals Accuracy : ±30 minutes per day

5	0498 32	Clip-on support frame for panel mounting DIN rail adaptor
5	0044 09	

		EconoRex MT Conforms to EN 60730-1 and EN 60730-2-7 Supply voltage : 230 V~ 50 Hz Mounting options : - can be surface mounted using Cat. No. 0495 94 - can be panel mounted
1	0499 83	EconoRex MT BTAP without working reserve 20 A output Shortest switching step : 20 minutes Switching accuracy : ± 5 minutes

1	0495 94	Fixing accessory Support frame for surface mounting
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Time switches are ideal for use
with Bticino door entry systems

Contact us on +44 (0) 845 605 4333

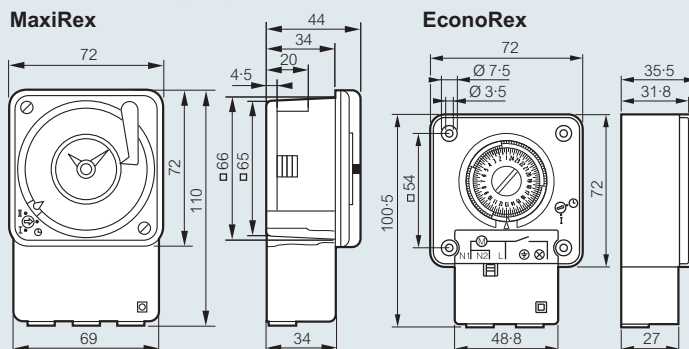
MaxiRex and EconoRex analogue time switches

surface and panel mounting

Technical information

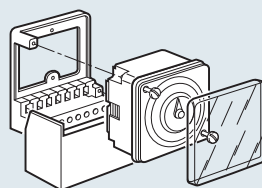
Type Cat. No.	MaxiRex T 0497 50	MaxiRex QT 0497 54	EconoRex MT 0499 83
Supply voltage	230 V~+10% -15%		
Frequency	50 Hz	50/60 Hz	50 Hz
Switching capacity : cos φ = 1 cos φ = 0.6 incand. lamp	16 A 10 A 1 000 W		16 A 8 A 1 000 W
Contact	1 c/o SPDT	1 c/o SPDT	1 c/o
Working reserve	None	100 hrs	None
Min. 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)

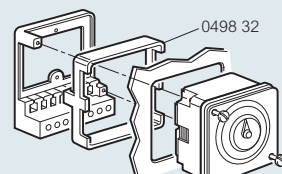


MaxiRex mounting

Wall mounting

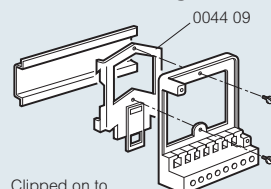


Panel mounting



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)

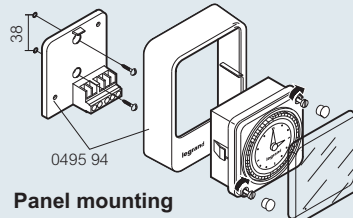
Wiring diagrams

MaxiRex and EconoRex

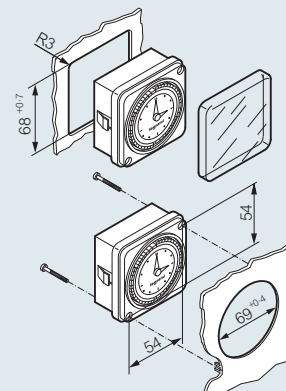


EconoRex mounting

Wall mounting



Panel mounting



light sensitive control and electronic time lag switches

digital for rail



0037 21



4126 02

Pack	Cat. Nos.	Light sensitive switch Microlux D
1	0037 21 ⁽¹⁾	Controls lighting according to the time and light level Supply voltage : 230 V~ ±10% 50/60 Hz Working reserve : 100 hours Accuracy of time switch : 1 second per day Number of programmes : 28/14 per channel Range of light intensity : 2-60 000 Lux Switching step : 1 minute Manual switch : override/programme/stop Automatic changeover to summer/winter time Temporary override with automatic return to programme Microlux D 10 A - 250 V~ cos φ = 1 1 changeover contact with 60 sec delay
		No. of 17.5 mm modules 2

Pack	Cat. Nos.	Electronic time-lag switch
10	4126 02	For staircase lighting. Switches a lighting circuit on and off from remote switch for a specific time DIN rail mountable Self-protection in the event of a blocked push button Power supply : 230 V~ - 50/60 Hz 2 000 W incandescent 2 000 W halogen - 230 V~ 1 000 VA fluo-series compensated 120 VA fluo-parallel compensated 14 µF 100 VA compact fluorescent 1 000 W energy saving lamp Adjustable from 0.5 seconds to 10 minutes Output : 16 A - 250 V~ - cos φ = 1 3 wire or 4 wire connection Manual override contact
		No. of 17.5 mm modules 1

light sensitive control and electronic time lag switches

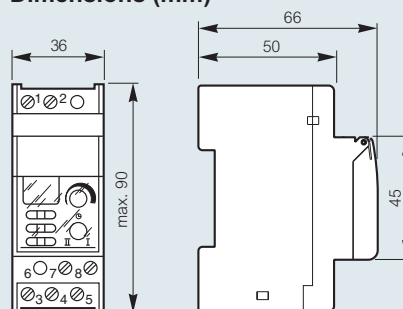
digital for rail

Technical information

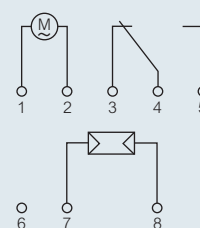
Type Cat. No.	Microlux D 0037 21	Electronic time-lag 4126 02
Supply voltage	230 V~	
Frequency	50/60 Hz	
Consumption	~1.3 W	0.8 W
Contact rating	Changeover contact 10 A 250 V~ μ cos φ = 1	μ 16 A cos φ = 1/250 V~
Accuracy	±2.5 seconds per day	
Terminal capacity	Single strand 1.5 to 4 mm ²	Multi strand 1.5 to 2.5 mm ²
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

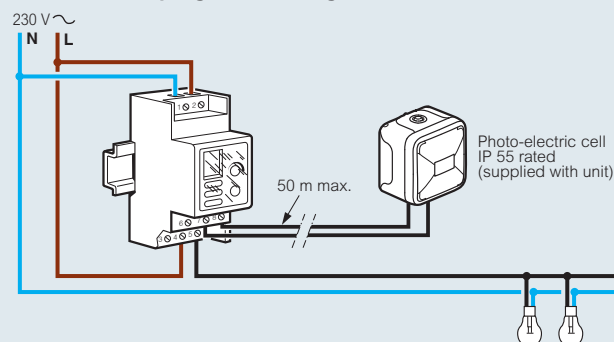
Dimensions (mm)



Wiring diagram



Connection of programmable light sensitive switch



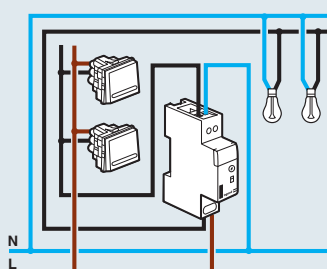
Lighting control without separate sensors?
No problem for AlphaRex³ Astro time switch, see p. 120

Time-lag switch

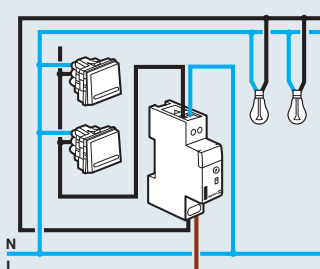
Allows :

- 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



(1) Supplied with photo-electric cell housed in Plexo weatherproof box - IP 55

Viking 3 terminal blocks

Viking 3



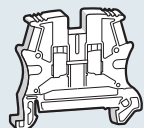
P. 132
Terminal blocks –
screw connection
selection chart



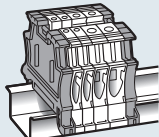
P. 136
Terminal blocks –
spring connection
selection chart



P. 146
Terminal blocks –
heavy duty
selection chart



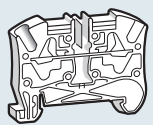
P. 134
Terminal blocks –
screw
connection



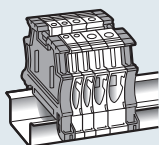
P. 140
Accessories for
terminal blocks



P. 142
Technical
information



P. 138
Terminal blocks –
spring
connection



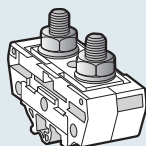
P. 140
Accessories for
terminal blocks



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

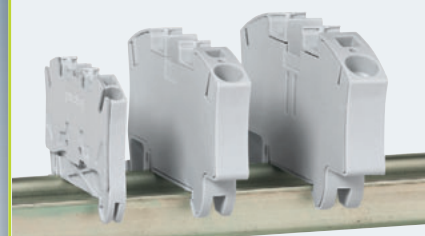


Universal screw technology, ideal for distribution and process cabinets.

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

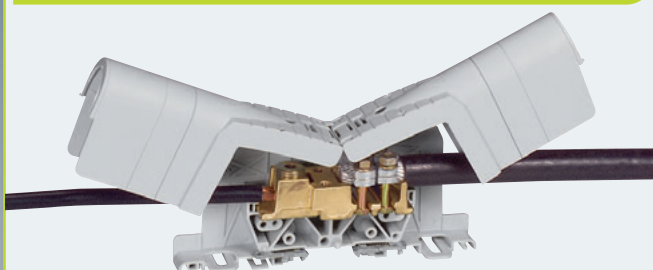
APPROVALS: Conform to EN 60947-7-1, EN 60947-7-2, EN 60947-7-3, UL/CSA/NF/VDE/IMQ ATEX certification

SIZE RANGE: To fit cable cross sections from 0.25mm² to 300mm²

FLAMMABILITY: UL94, self extinguishing at 960°C



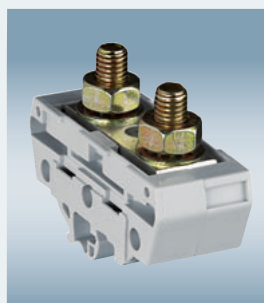
HEAVY DUTY CONNECTION



Enables copper and aluminium cables with cross sections from 35mm² to 300mm² to be connected directly or via lugs.

FEATURES -

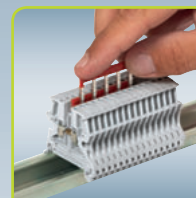
- Multiple mounting options... DIN rail, G rail or plate fixing
- Compatible with CAB3 marking system
- Sealable to create weatherproof connections
- Separation barriers and protective covers available
- Provide facility for the termination of larger cables associated with long cable runs



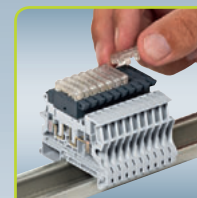
Integrated accessories complete the range



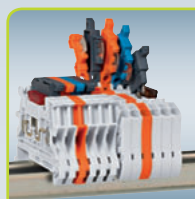
End stop with screwless fixing



Bridging comb with automatic insertion up to 8 mm (screw) or 12 mm (spring) widths



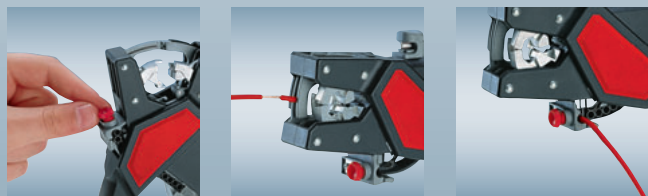
Indication of blown fuses (12 / 48 V or 110 / 250 V)



Additional functions can be added: standard, neutral or protected isolation, MCBs, automotive-type fuses, etc...

Common accessories across screw and spring connection ranges

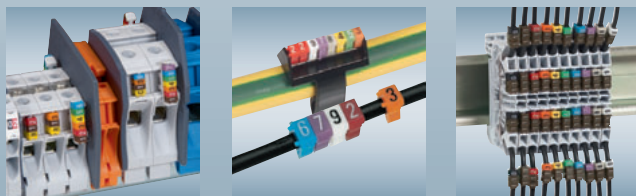
Perfect connections...



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

clearly marked



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

NF RU SP 100				
--	--	--	--	--

(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

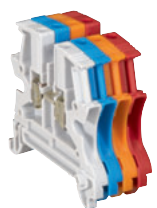
(4) Upper level only
 (5) Lower and intermediate levels

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	 Label holder for end stop (p. 140)
				0371 01											
				0371 21											
				0371 31											
	6	8		0371 77	0375 50 ⁽³⁾	0375 60	–	0375 07	–	–	–	0375 66	0375 68	0375 27	
				0371 02											
10	10		0371 62	0375 50 ⁽³⁾	0375 60	–	–	–	–	0375 40	0375 66	0375 68	–		
			0371 03												
16	12		0371 63	0375 51	0375 61	–	–	–	–	0375 42	0375 67	0375 69	–		
			0371 04												
35	15		0371 64	0375 51	0375 61	–	–	–	–	0375 44	0375 67	0375 69	–		
			0371 05												
70	22		0371 65	built-in	–	–	–	–	–	–	–	–	–	–	
	4	6		0371 66	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⁾	 Dividers (p. 140)
	0371 08														
	2-5	5		0371 51	0375 54	0375 54	0375 02 ⁽⁴⁾	–	0375 01 ⁽⁴⁾	0375 46 ⁽⁵⁾ 0375 47 ⁽⁵⁾	–	–	–	0375 27 ⁽⁴⁾	
	2-5	5		0371 70	0375 50 ⁽³⁾	–	–	–	–	–	–	–	–	–	
	4	6		0371 71											
	6	8		0371 72											
	10	10		0371 73											
	16	12		0371 74											
	35	15		0371 75											
	35	15		0371 76											
	4	6		0371 77	0375 50	0375 60	0375 05	–	0375 04	–	–	0375 65	0375 68	–	 Blown fuse indicators (p. 141)
	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												
			0371 85												
			0371 86												
10	12		0371 87											0375 55	0375 62
	10	12		0375 56	–	–	–	–	–	–	–	–	–		
	2-5	5		0371 51	0375 54	0375 54	0375 02 ⁽⁴⁾	–	0375 01 ⁽⁴⁾	0375 46 ⁽⁵⁾ 0375 47 ⁽⁵⁾	–	–	–	0375 27 ⁽⁴⁾	 Starfix ferrules (p. 160)
			0371 52												

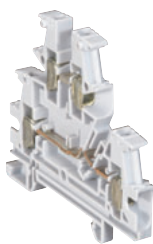
Viking 3 terminal blocks – screw connection for copper cable



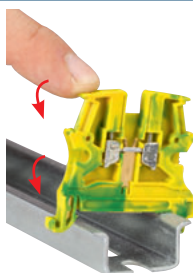
0371 60 + 0371 00 +
0371 20 + 0371 30



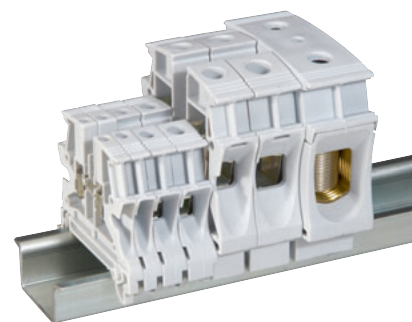
0371 69



0371 68



0371 70 on rail



0371 60 + 0371 61 + 0371 62 + 0371 63 +
0371 64 + 0371 65 + 0371 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

Pack	Cat. Nos.	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)
		1 connection - 1 entry/1 exit
60	0371 60	Grey ●
60	0371 00	Blue ●
60	0371 20	Orange ●
60	0371 30	Red ●
50	0371 61	Grey ●
50	0371 01	Blue ●
50	0371 21	Orange ●
50	0371 31	Red ●
40	0371 62	Grey ●
40	0371 02	Blue ●
30	0371 63	Grey ●
30	0371 03	Blue ●
20	0371 64	Grey ●
20	0371 04	Blue ●
20	0371 65	Grey ●
20	0371 05	Blue ●
10	0371 66 ⁽¹⁾	Grey ●
		1 connection - 2 entries/2 exits
25	0371 69	Grey ●
25	0371 09	Blue ●
		2 connections on 2 levels
60	0371 67	Grey ●
60	0371 07	Blue ●
60	0371 68	Grey ●
60	0371 08	Blue ●
		3 connections on 3 levels
50	0371 51 ⁽²⁾	Grey ●

Pack	Cat. Nos.	Protection					
		1 connection - 1 entry/1 exit - metal base					
		Screwless fixing on rail up to 10 mm width PEN from 10 mm²					
			Nominal cross section (mm²)	Capacity		Width (mm)	
		Colour		Rigid cable (mm²)	Flexible cable (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					
		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					
		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					
			Nominal cross section (mm²)	Capacity		Width (mm)	
		Colour		Rigid cable (mm²)	Flexible cable (mm²)		
50	0371 52 ²⁾	Grey 	2.5	0.25 to 4	0.25 to 2.5	5	



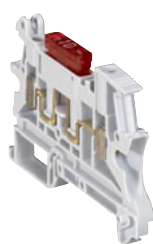
For Starfix ferrules, crimping tools and CAB 3 marking system

see p. 154-161

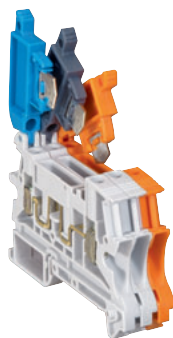
(1) Built-in end cap

(2) Cable capacity : 2.5 mm² max. only when used with bridging comb

Viking 3 terminal blocks – screw connection for copper cable (continued)



0371 80 + automotive-type fuse



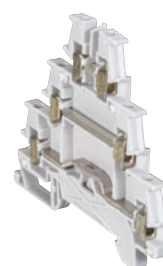
0371 82 + 0371 83 +
0371 85



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 15 mm depth 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

Pack	Cat. Nos.	Disconnection				
		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				
		Colour	Nominal cross section (mm ²)	Capacity		Width (mm)
				Rigid cable (mm ²)	Flexible cable (mm ²)	
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)

Pack	Cat. Nos.	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)				
		3 connections on 3 levels - for sensor				
		Colour	Nominal cross section (mm ²)	Capacity		Width (mm)
				Rigid cable (mm ²)	Flexible cable (mm ²)	
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)

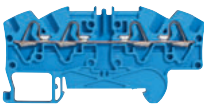
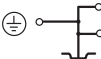
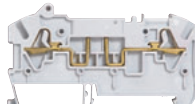
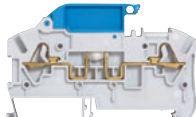
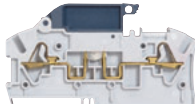
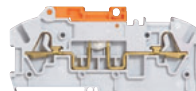


For Starfix ferrules, crimping tools and CAB 3 marking system

see p. 154-161

(1) Rigid cable capacity : 2.5 mm² max. only when used with bridging comb

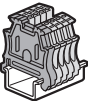
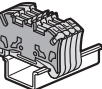
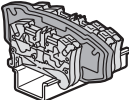
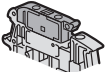
Viking 3 terminal blocks – spring connection for copper cable

				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						
	With mini lever						
	For circuit not broken	With handle lever					
		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			
				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⁾	 Blown fuse indicators (p. 141)		
				0372 08									
	4	5		0372 70	0375 86	–	–	–	–	–			
	4	6		0372 71									
	6	8		0372 72									
	10	10		0372 73									
					0372 74	built-in	–	–	–	–		–	
					4	5	0375 87	–	–	–		–	
4					6	built-in	–	–	–	–	–		
4					5	0375 88	–	–	–	–	–		
4					6	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									
				0372 84	0375 90	–	0375 05	–	0375 04	0375 27		 CAB 3 marking system (p. 154)	
				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
	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



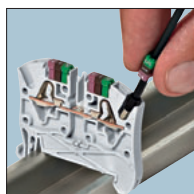
0372 21



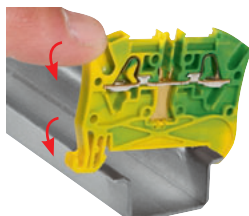
0372 63



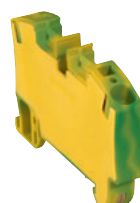
0372 40



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

Pack	Cat. Nos.	Connection					
		Grey for standard circuit Blue for neutral conductor Orange for circuit not broken by the master isolating device					
1 connection - 2 cables - 1 entry/1 exit							
		Colour	Nominal cross section (mm ²)	Rigid cable (mm ²)	Capacity Flexible cable (mm ²)	Flexible cable with ferrule (mm ²)	Width (mm)
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 					



Pack	Cat. Nos.	Protection																																				
		Metal base Screwless fixing on rail PEN from 10 mm ²																																				
1 connection - 2 cables - 1 entry/1 exit																																						
		<table><tr><th>Colour</th><th>Nominal cross section (mm²)</th><th>Rigid cable (mm²)</th><th>Capacity Flexible cable (mm²)</th><th>Flexible cable with ferrule (mm²)</th><th>Width (mm)</th></tr><tr><td>60 0372 70 Green/yellow</td><td>4</td><td>0.5 to 6</td><td>0.5 to 4</td><td>0.5 to 2.5</td><td>5</td></tr><tr><td>50 0372 71⁽¹⁾ Green/yellow</td><td>4</td><td>0.5 to 6</td><td>0.5 to 4</td><td>0.5 to 4</td><td>6</td></tr><tr><td>25 0372 72⁽¹⁾ Green/yellow</td><td>6</td><td>0.5 to 6</td><td>0.5 to 6</td><td>0.5 to 6</td><td>8</td></tr><tr><td>20 0372 73⁽¹⁾ Green/yellow</td><td>10</td><td>0.75 to 10</td><td>0.75 to 10</td><td>0.75 to 10</td><td>10</td></tr><tr><td>15 0372 74⁽¹⁾ Green/yellow</td><td>16</td><td>4 to 16</td><td>4 to 16</td><td>4 to 16</td><td>12</td></tr></table>	Colour	Nominal cross section (mm ²)	Rigid cable (mm ²)	Capacity Flexible cable (mm ²)	Flexible cable with ferrule (mm ²)	Width (mm)	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
Colour	Nominal cross section (mm ²)	Rigid cable (mm ²)	Capacity Flexible cable (mm ²)	Flexible cable with ferrule (mm ²)	Width (mm)																																	
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																																						
		<table><tr><td>40 0372 10 Green/yellow</td><td>4</td><td>0.5 to 6</td><td>0.5 to 4</td><td>0.5 to 2.5</td><td>5</td></tr><tr><td>30 0372 11⁽¹⁾ Green/yellow</td><td>4</td><td>0.5 to 6</td><td>0.5 to 4</td><td>0.5 to 4</td><td>6</td></tr></table>	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																								
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																																						
		<table><tr><td>40 0372 12 Green/yellow</td><td>4</td><td>0.5 to 6</td><td>0.5 to 4</td><td>0.5 to 2.5</td><td>5</td></tr><tr><td>30 0372 79⁽¹⁾ Green/yellow</td><td>4</td><td>0.5 to 6</td><td>0.5 to 4</td><td>0.5 to 4</td><td>6</td></tr></table>	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																								
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																																	

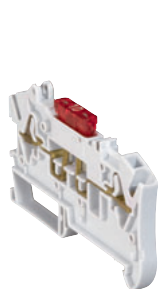


For Starfix ferrules, crimping tools and CAB 3 marking system

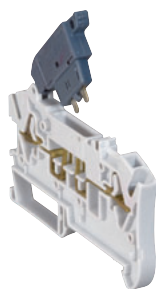
see p. 154-161

(1) Built-in end cap

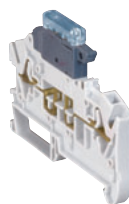
Viking 3 terminal blocks – spring connection for copper cable (continued)



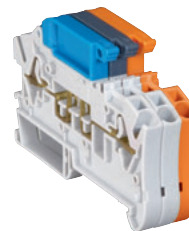
0372 80 with automotive-type fuse



0372 81 open



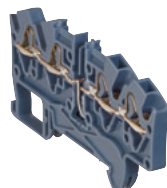
0372 81 with blown fuse indicator (p. 141)



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

Pack	Cat. Nos.	Disconnection					
		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					
			Nominal cross section (mm ²)	Rigid cable (mm ²)	Capacity Flexible cable (mm ²)	Flexible cable with ferrule (mm ²)	Width (mm)
20	0372 80	Colour Grey ●	2.5	0.5 to 2.5	0.5 to 2.5	0.5 to 2.5	6
20	0372 81	Grey ●	2.5	0.5 to 2.5	0.5 to 2.5	0.5 to 2.5	6
20	0372 82	Grey/blue ●	2.5	0.5 to 2.5	0.5 to 2.5	0.5 to 2.5	6
20	0372 83	Grey ●	2.5	0.5 to 2.5	0.5 to 2.5	0.5 to 2.5	6
20	0372 84	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					
		For neutral circuit with blue handle lever					
20	0372 85	Orange ●	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 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)

Pack	Cat. Nos.	Function blocks					
		1 connection - 4 cables - 2 entries/2 outlets - diode-carrier					
		Colour	Nominal cross section (mm ²)	Rigid cable (mm ²)	Capacity Flexible cable (mm ²)	Flexible cable with ferrule (mm ²)	Width (mm)
60	0372 54	Grey ●	4	0.5 to 6	0.5 to 4	0.5 to 2.5	5
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 - diode carrier					
		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)

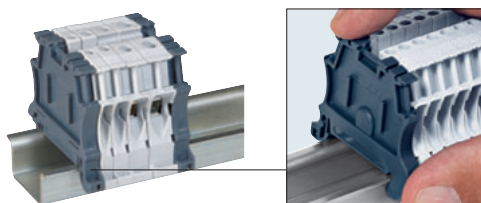
End stops (p. 140)



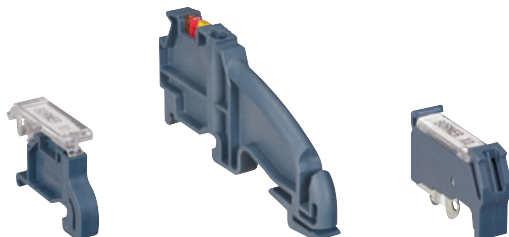
For Starfix ferrules, crimping tools and CAB 3 marking system

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

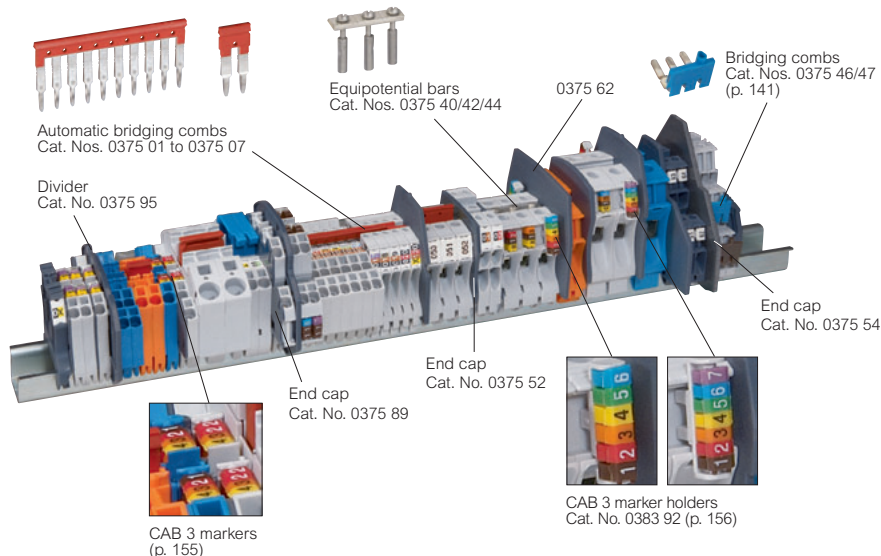
0375 13 with label holder 0395 96



Technical characteristics (p. 145)

Pack	Cat. Nos.	Rails
10	0374 04	Length 2 m
10	0374 07	EN 60715 depth 7.5 mm
		depth 15 mm
10	0394 49	45° mounting bracket Set of 2 supports for tilting a rail at an angle of 45° Supplied with 4 x M6 screws, nuts and washers
50	0375 10	End stops Grey Compatible with CAB 3 marking system 6 mm width Screwless mounting For rails EN 60715 depth 15 mm and EN 60715 depth 7.5 mm and 15 mm Accepts label holder Cat. No. 0395 96 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 For rails EN 60715 depth 15 mm and EN 60715 depth 7.5 mm and 15 mm Accepts label holder Cat. No. 0395 96
10	0375 12	10 mm width For rails EN 60715 depth 15 mm and EN 60715 depth 7.5 mm (except for rail fixed on plate) and 15 mm - IP 2X terminal block with flat steel bar 12 x 2 mm Cat. No. 0048 19 (p. 42) - Copper bar 12 x 4 mm Cat. No. 0373 89 (p. 45) - Shielding bar 10 x 3 mm Cat. No. 0375 34 (p. 141)
20	0375 13	12 mm width For rails EN 60715, EN 60715 depth 15 mm and EN 60715 depth 7.5 mm and 15 mm
20	0395 96	Identification accessories Transparent label holder With variable angle Fixing on end stops Cat. Nos. 0375 10/11 Supplied with label 32 x 9.5 mm Compatible with label Cat. No. 0395 97
20	0395 97	Label For engraving 28 x 9.5 mm For label holder Cat. No. 0395 96. Flexible ABS White background, black engraving
10	0395 98	Black felt tip pen For permanent marking

CAB 3® marking system (p. 154-156)



Automatic bridging combs
Cat. Nos. 0375 01 to 0375 07

Divider
Cat. No. 0375 95

Equipotential bars
Cat. Nos. 0375 40/42/44

0375 62

Bridging combs
Cat. Nos. 0375 46/47
(p. 141)

End cap
Cat. No. 0375 54

End cap
Cat. No. 0375 89

End cap
Cat. No. 0375 52

CAB 3 markers
(p. 155)

CAB 3 marker holders
Cat. No. 0383 92 (p. 156)

Pack	Cat. Nos.	End caps
		Grey
100	0375 50	For screw terminal blocks 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
50	0375 86	For spring terminal blocks with 5 mm width 5 mm pitch block becomes 6 mm pitch with end cap fitted Permits termination of a 4 mm ² cable complete with ferrule
50	0375 87	1 entry/1 exit
20	0375 88	1 entry/2 exits
20	0375 89	2 entries/2 exits
20	0375 90	2 levels
		For spring terminal blocks with 6 mm width Disconnection type
20	0375 60	Separation and insulation dividers Grey For screw terminal blocks 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
10	0375 95	For spring terminal blocks 1 entry/1 exit, 1 entry/2 exits and 2 entry/2 exits 5 and 6 mm width
10	0375 96	2 levels
20	0375 01 ⁽¹⁾	Bridging accessories Bridging combs for screw and spring terminal blocks Front mounting (automatic insertion), screwless Isolated and separable. Consecutive or alternating connection. Red
50	0375 02 ⁽¹⁾	For 10 blocks with 5 mm width
20	0375 04 ⁽¹⁾	For 2 blocks with 5 mm width
50	0375 05 ⁽¹⁾	For 10 blocks with 6 mm width
50	0375 07 ⁽¹⁾	For 2 blocks with 6 mm width
20		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

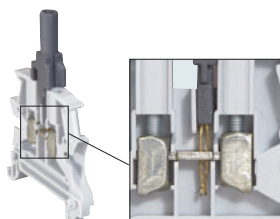
Viking 3 accessories for terminal blocks (continued)



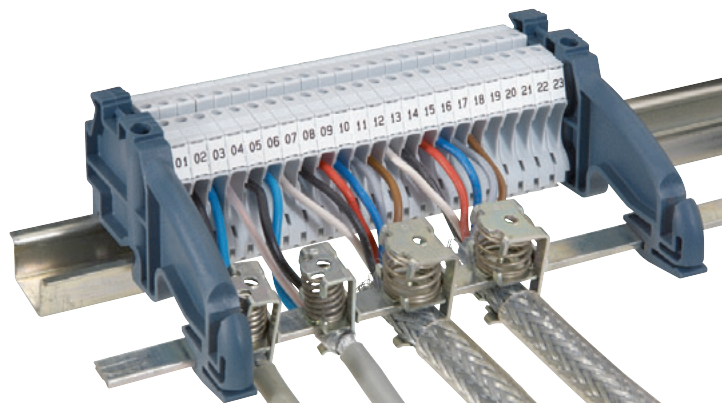
0372 81 + 0375 24



0371 63 + 0371 03 + 0375 66



0371 61 + 0375 27

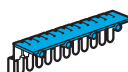


Shielding terminal block with end stops Cat. No. 0375 12 (p. 140), shielding bar Cat. No. 0375 34 and clamps Cat. Nos. 0375 30/31

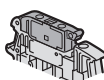


Technical characteristics (p. 145)

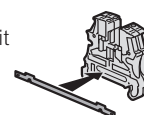
Pack	Cat. Nos.	Bridging accessories (continued)
		Bars for screw terminal blocks Front mounting with screws. Pre-assembled Consecutive or alternating connection
10	0375 40	For 12 blocks with 10 mm width
10	0375 42 ⁽¹⁾	For 12 blocks with 12 mm width
10	0375 44	For 12 blocks with 15 mm width
		Bridging 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



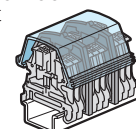
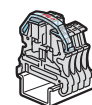
		Accessories for disconnection blocks For screw and spring terminal blocks
		Blown fuse indicators Clip directly on to blocks Cat. Nos. 0371 81 or 0372 81
50	0375 24	12/24/48 V _~ / $\sim$ for block with fuse cartridge 5 x 20 with handle lever
50	0375 25	110/250 V _~ for block with fuse cartridge 5 x 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 x 3 mm
10	0375 34	
50	0375 35	Screening continuity bracket 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 mm ²



		Protective screens
		1 pole For screw terminal blocks 1 entry/1 exit 5 and 6 mm width 8 and 10 mm width 12 and 15 mm width
10	0375 65	
10	0375 66	
10	0375 67	
		Cut to length Length 1 m Mounted on separation and insulation divider For screw terminal blocks 1 entry/1 exit 5, 6, 8 and 10 mm width (divider Cat. No. 0375 60, p. 140) 12 and 15 mm width (divider Cat. No. 0375 61, p. 140)
10	0375 68	
10	0375 69	



		Test meter adaptor For screw and spring terminal blocks Measurement socket for Ø4 mm plug for blocks with 5 and 6 mm width
10	0375 27 ⁽²⁾	



(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)

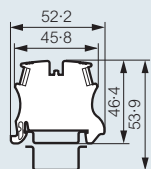
V2 polyamide according to UL 94, 960 °C according to IEC EN 60695-2-11

Connection blocks

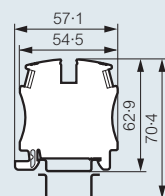
Cat. Nos.	Voltage (V)			Current (A)				Nominal cross section		
	IEC	CSA	UL	Ie	IEC	CSA	UL	IEC (mm²)	CSA (AWG)	UL (AWG)
0371 00/20/30/60	800	600	600	27	24	20	20	2.5	12	12
0371 01/21/31/61				36	32	30	30	4	10	10
0371 02/62				48	41	50	50	6	8	8
0371 03/63				63	57	60	60	10	6	6
0371 04/64				85	76	85	85	16	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	1000	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

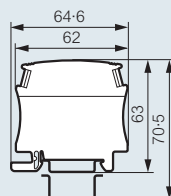
Cat. Nos. 0371 00/01/
02/03/20/21/30/31/60/
61/62/63/77/78



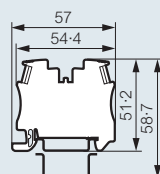
Cat. Nos.
0371 04/05/64/65



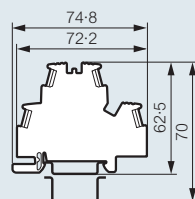
Cat. No. 0371 66



Cat. Nos. 0371 09/69



Cat. Nos. 0371 07/08/67/68



Approved by ATEX :
LCIE 07 ATEX 0010 U-0081 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

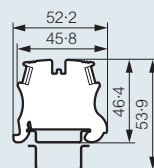
Cat. Nos.	Voltage (V)			Nominal cross section		
	IEC	CSA	UL	IEC (mm²)	CSA (AWG)	UL (AWG)
0371 70	800	600	600	2.5	12	12
0371 71				4	10	10
0371 72				6	8	8
0371 73 ⁽¹⁾				10	6	6
0371 74 ⁽¹⁾				16	4	4
0371 75 ⁽¹⁾				35	2	2
0371 76	—	—	—	35	—	—
0371 77	800	600	600	4	10	10
0371 78				6	8	8
0371 79	500	300	300	4	10	10

IEC 60947-7-1/7-2, CSA no. 22-2 no. 158, UL 1059

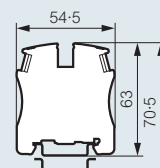
(1) PEN terminal blocks

Cat. Nos.

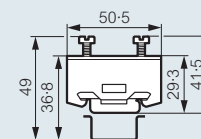
0371 70/71/72/73



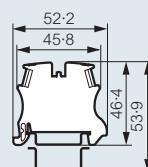
Cat. Nos. 0371 74/75



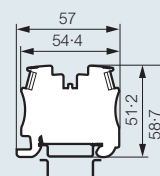
Cat. No. 0371 76



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		

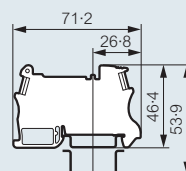
IEC 60947-7-1/7-3, CSA no. 22-2 no. 158, UL 1059

Power according to EN 60947-7-3

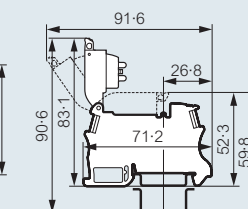
Cat. Nos.	Short-circuit		Short-circuit + overload	
	Separate blocks	Assembled blocks	Separate blocks	Assembled blocks
0371 81 or 0371 80 + 0375 15 ⁽¹⁾	4 W / 6.3 A Pvk = 4.75 W	1.6 W/6.3 A Pvk = 2 W	1.6 W/6.3 A Pv = 1.65 W	—
0371 87	4 W	2.5 W	1.6 W	—
	Pvk = 5 W	Pvk = 2.7 W	Pv = 1.8 W	—

(1) With or without blown fuse indicator Cat. No. 0375 25

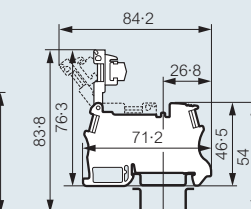
Cat. No. 0371 80



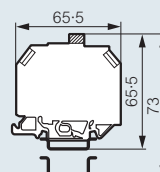
Cat. Nos. 0371 81/82/83/85



Cat. Nos. 0371 84/86



Cat. No. 0371 87

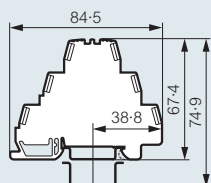


Blocks for sensors and actuators/PNE

Cat. Nos.	Voltage (V)			Current (A)				Nominal cross section		
	IEC	CSA	UL	Ie	IEC	CSA	UL	IEC (mm²)	CSA (AWG)	UL (AWG)
0371 51	400	300	300	27	24	20	20	2.5	12	12
0371 52										

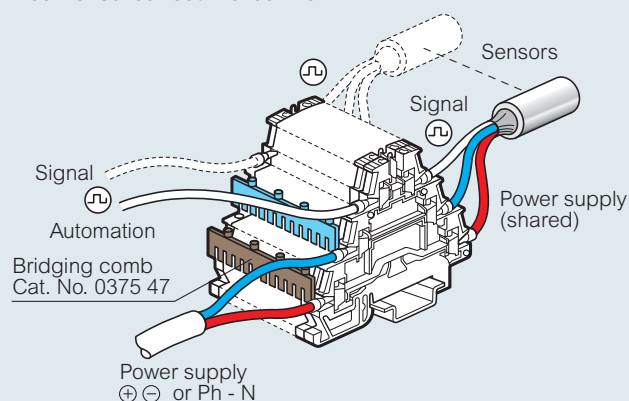
IEC 60947-7-1/7-2, CSA no. 22-2 no. 158, UL 1059
I_e: Rated current NF C 15100 table 52H, column 4

Cat. Nos. 0371 51/52

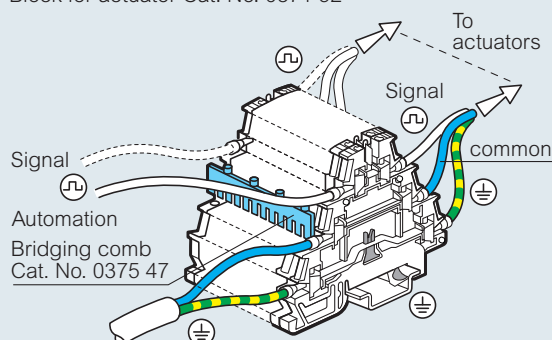


Wiring diagram

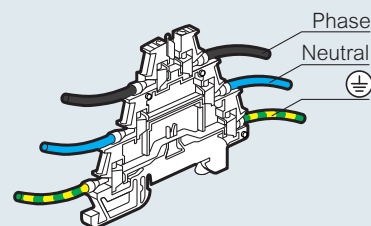
Block for sensor Cat. No. 0371 51



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	6 to 8
8	
10	10 to 12
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				48	41	30	30	6	10	10
0372 02				63	57	50	50	10	8	8
0372 03				85	76	65	65	16	6	6
0372 04	500	300	300	36	32	20	20	4	12	12
0372 07										
0372 08										
0372 09										
0372 20	800	600	600	36	32	20	20	4	12	12
0372 21										
0372 40										
0372 41										
0372 42										
0372 43										
0372 44										
0372 46										
0372 47										
0372 60										
0372 61										
0372 62										
0372 63										
0372 64										
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				6	8	8
0372 72						
0372 73 ⁽¹⁾						
0372 74 ⁽¹⁾						
0372 79				4	10	10

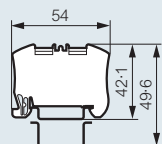
IEC 60947-7-2, CSA no. 22-2 no. 158, UL 1059
(1) PEN terminal blocks

Function blocks

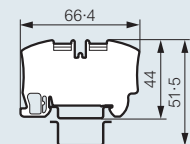
Cat. Nos.	Voltage (V)			Current (A)			Nominal cross section		
	IEC	CSA	UL	IEC	CSA	UL	IEC (mm²)	CSA (AWG)	UL (AWG)
0372 54	500	300	300	1	1	1	4	14	14
0372 55									
0372 56									

IEC 60947-7-1, CSA no. 22-2 no. 158, UL 1059

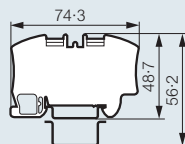
Cat. Nos. 0372 00/01/
20/21/60/61/70/71



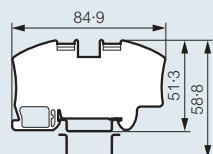
Cat. Nos. 0372 02/62/72



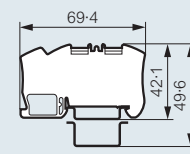
Cat. Nos. 0372 03/63/73



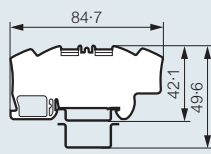
Cat. Nos. 0372 04/
64/74



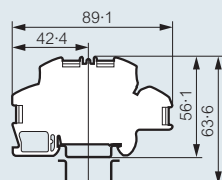
Cat. Nos. 0372 10/11/
40/41/42/43/44



Cat. Nos. 0372 09/12/
46/47/54/69/79

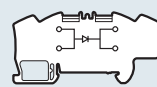


Cat. Nos. 0372 07/08/55/56/67/68

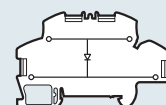


Function block schematic diagrams

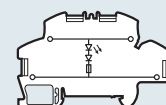
Cat. No. 0372 54



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 1000 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									

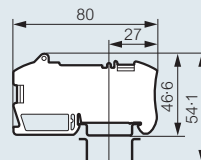
IEC 60947-7-1/7-3, CSA no. 22-2 no. 158, UL 1059

Power according to EN 60947-7-3

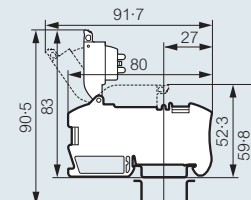
Cat. Nos.	Short-circuit		Short-circuit + overload	
	Separate blocks	Assembled blocks	Separate blocks	Assembled blocks
0372 81 or 0372 80 + 0375 15 ⁽¹⁾	4 W / 6.3 A	1.6 W / 6.3 A	1.6 W / 6.3 A	–
	P _{vk} = 4.75 W	P _{vk} = 2 W	P _v = 1.65 W	–

(1) With or without blown fuse indicator Cat. No. 0375 25

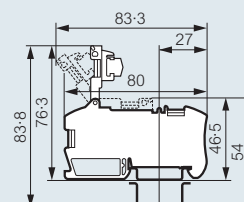
Cat. No. 0372 80



Cat. Nos. 0372 81/82/83/85



Cat. No. 0372 84/86



Viking 3 accessories for terminal blocks

Stripped lengths (mm)

Spring terminal width (mm)	Rigid or flexible cable
5	
6	8 to 12
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

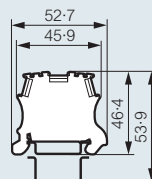
Art. EL 16, power supply circuits in security installations section 1a: "...the corresponding junction or deviation devices and their enclosures except for the waterproofing systems must satisfy the incandescent cable test defined in the standard in force, the temperature of the incandescent cable being 960 °C"

Viking 3 terminal blocks satisfy the incandescent cable test 960 °C according to standard IEC 60695-2-11

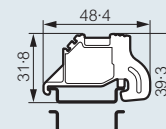
■ Characteristics and dimensions (mm)

End stops

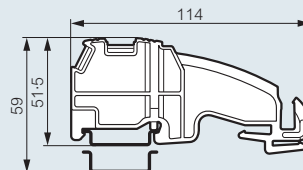
Cat. No. 0375 10



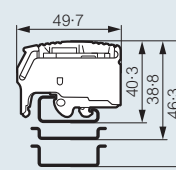
Cat. No. 0375 11



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 58	1
0375 59	1.1
0375 60	1.1
0375 61	1.1
0375 62	1.1
0375 63	1.1
0375 64	2

Separation and insulation dividers

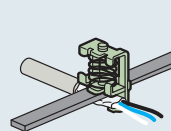
Cat. Nos.	Thickness (mm)
0375 54	2.5
0375 60	2.5
0375 61	2.6
0375 62	2.5
0375 63	2.5
0375 95	2.8
0375 96	2.7

Bridging combs/bars

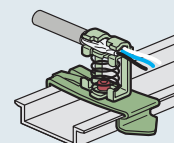
Cat. Nos.	Cross-section (mm²)
0375 01	2.5
0375 02	2.5
0375 04	4
0375 05	4
0375 07	6
0375 40	10
0375 42	16
0375 44	35
0375 46	2.5
0375 47	2.5
0375 62	10
0375 85	16

Shielding accessories

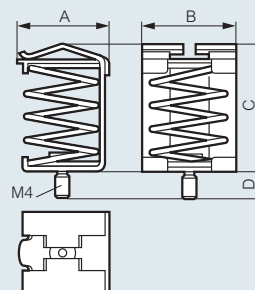
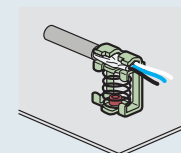
Mounting on bar
10 x 3
Cat. No. 0375 34



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.		Separation and insulation divider	Shunt	Cover 4 blocks	Cover 3 blocks	 CAB 3 marking system (p. 154)
 0390 11  0390 14  0390 21	Heavy duty terminal blocks (p. 147)	Cable - cable		—	42	0390 10	—					
				55	0390 11	—	—	0394 47	—	—		
		Cable lug - cable lug		—	36	0390 13	—	—	0394 46	—	—	
				42	0390 14	—	—	0394 46	—	—		
		55	0390 15	—	—	0394 47	—	—				
		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

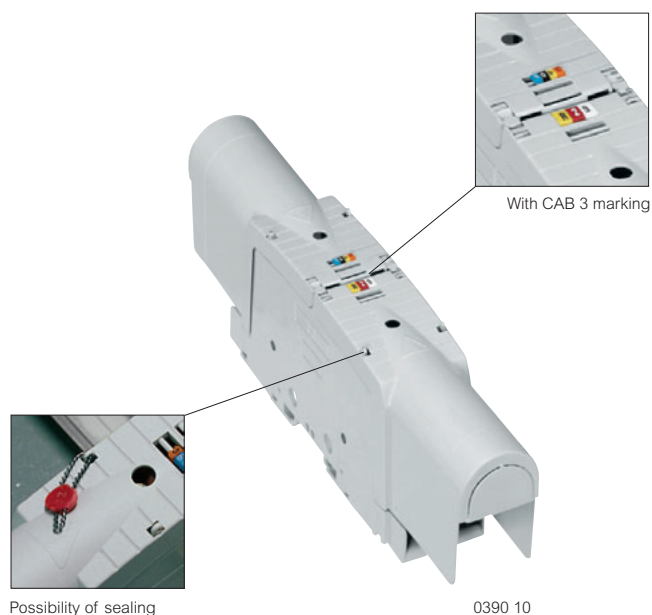


For enclosures

see p. 14-23

Viking 3 heavy duty terminal blocks

for copper and aluminium cables

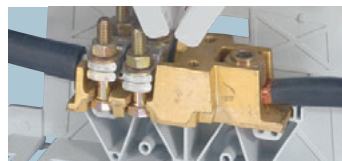


Technical characteristics (p. 149)

Pack	Cat. Nos.	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 Bridging the gap between the enclosure and external cables Fixed using metal clip for rails 15 mm depth and EN 60715, 15 mm depth or on plate with screws Fitted with hinged covers with cut-outs Permits the use of CAB 3 markers Test via test plug Ø4 closed covers Blocks with identical width can be joined using a threaded rod Supports shunt with Cat. Nos. 0394 46/47		
5	0390 10	Cable - Cable		Width (mm)
	0390 11	Rigid or flexible connecting cable (mm²)	Rigid or flexible connecting cable (mm²)	
5		Al/Cu 35 to 120	Cu 35 to 70	42
5		Al/Cu 70 to 300	Cu 70 to 150	55
5	0390 13	Cable lug - Cable lug		Width (mm)
	0390 14	Connecting plate max. (mm²)	Connecting plate max. (mm²)	
	0390 15	Al/Cu 95	Al/Cu 95	
		Al/Cu 150	Al/Cu 150	
5		Al/Cu 300	Al/Cu 300	55
5	Cable lug - Cable		Rigid or flexible connecting cable (mm²)	Width (mm)
	0390 17	Connecting plate max. (mm²)		
	0390 18	Al/Cu 150	Cu 35 to 95	42
5		Al/Cu 300	Cu 70 to 150	55

Termination options

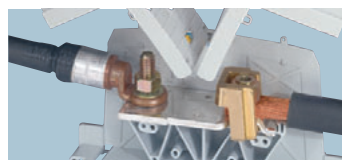
Cable - Cable



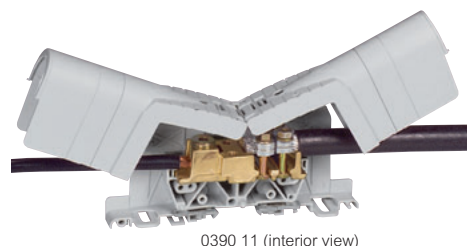
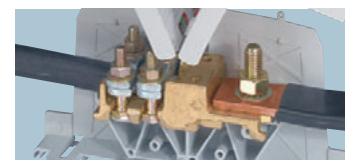
Cable lug - Cable lug



Cable lug - Cable



Cable - Cable lug



0390 11 (interior view)

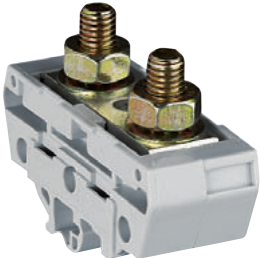
Pack	Cat. Nos.	Accessories
		Shunt
5	0394 46	For blocks with width 36 and 42 mm
5	0394 47	For blocks with width 55 mm



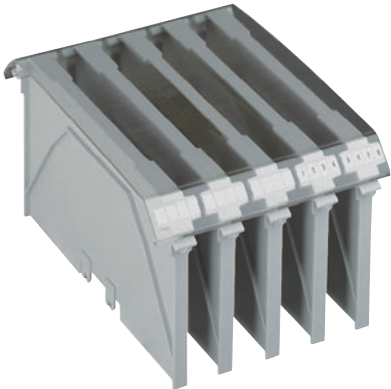
For DIN rails

see p. 140

Viking 3 heavy duty terminal blocks
for copper bars and cable lugs



0390 32



0394 78 + 86

 *Technical characteristics (p. 149)*

Pack	Cat. Nos.	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)			
		Connecting max. (mm ²)	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)			
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

Pack	Cat. Nos.	Accessories	
		Separation barriers	
		Take protective covers	
		Marking possible with CAB 3 marking system (p. 154)	
10	0394 77	For terminals with width 26 mm	
10	0394 78	For terminals with width 34 and 46 mm	
		Protective covers	
5	0394 86	For mounting on separation barriers	
		For 3 terminals with width 46 mm	
5	0394 88	or for 4 terminals with width 34 mm	
5	0394 89	For 4 terminals with width 26 mm	
		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 U_i : 1000 V

Impulse voltage U_{imp} : 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



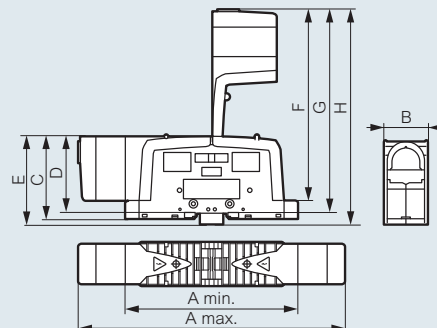
Currents table

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					
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 :

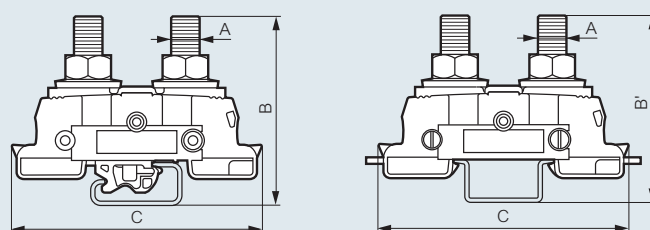
960 °C, IEC EN 60695-2-11

V2 according to UL 94

Insulating material :

polyamide -30 °C to +100 °C

Dimensions (mm)



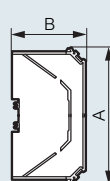
Cat. Nos. 0390 31/32/33/34

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

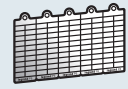
Cat. Nos.	A	B	Thickness
0394 77	106	82	8
0394 78	188	102	12

(1) Previously M 12 + block length 78.5 mm

(2) Previously M 16 + block length 94 mm



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



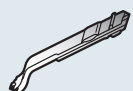
P. 158
Colring
cable ties
technical
information



P. 159
Colson
cable ties
technical
information



P. 160
Crimping tools
for Starfix
ferrules



P. 161
Applicators
for Starfix
crimping tools

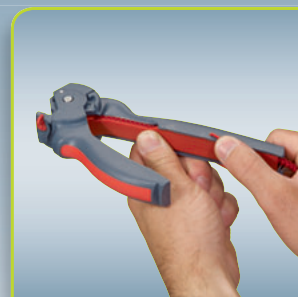


P. 161
Starfix
technical information

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

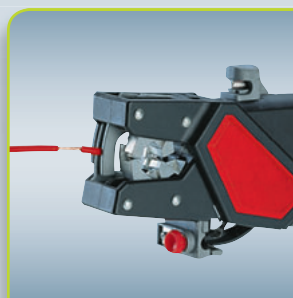


Insert cable and crimp

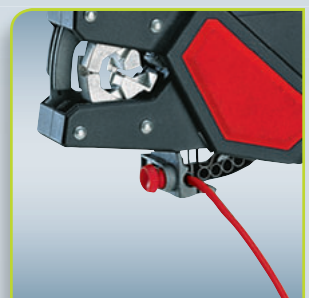
Starfix multi-purpose crimping tool – for cables from 0.5mm to 2.5mm²



Adjust cross section



Cut, strip and twist



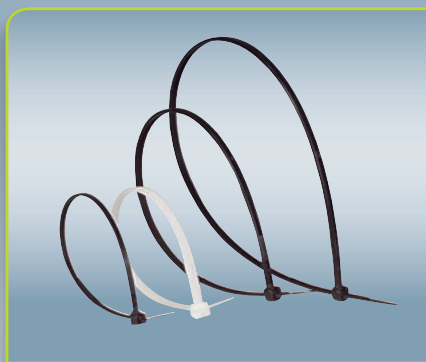
Crimp

Create reliable connections in seconds with Starfix crimping tools and ferrules... everything you need for 0.25 to 50mm² cables.



Crimping tools, applicators and mixed ferrules are available in convenient kits to get you started.

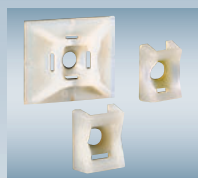
Colring® cable ties



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

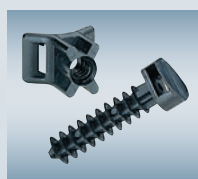
Colson® cable ties



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

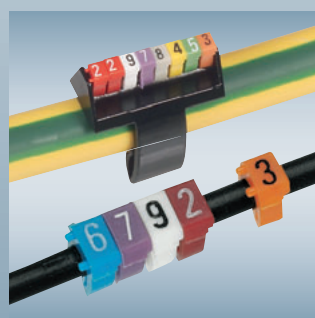


Screw mounting and wall plug bases available

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

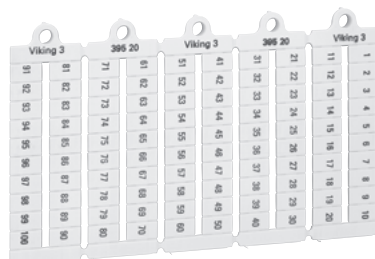


Markers can be fitted directly onto cables or via a marker holder



Terminal block installation with CAB 3 markers

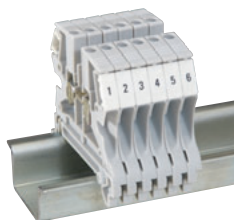
marking label sheets for Viking 3 terminal blocks



0395 20

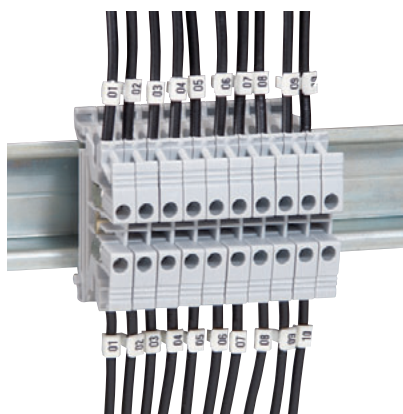


0395 98



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



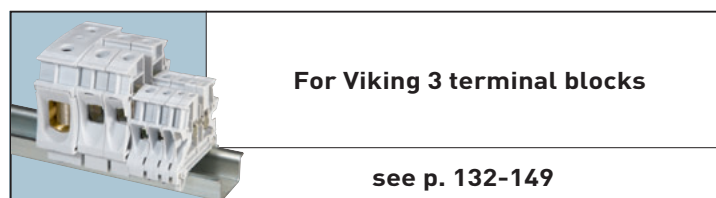
Technical information (p. 156)

Pack	Cat. Nos.	Blank markers
1000	0395 00	Displayed by sheet of 100 pre-cut markers
1000	0395 01	Manual marking with black felt tip pen Cat. No. 0395 98
1000	0395 02	For blocks 5 mm width
		For blocks 6 mm width
		For blocks 8 mm width

Pack	Cat. Nos.	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

Pack	Cat. Nos.	Black felt tip pen
10	0395 98	Permanent marker

Pack	Cat. Nos.	Markers for cables 1.5 to 2.5 mm ² 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

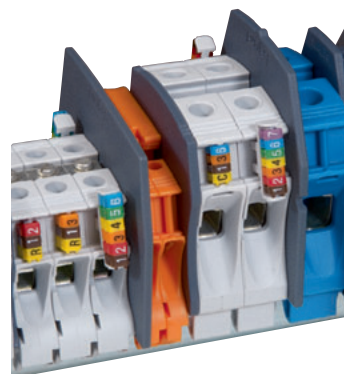
CAB 3[®] marking system for cables and Viking 3 terminal blocks



Perfect alignment of markers



0382 12



Terminal blocks with CAB 3 markers and label holders

Technical information (p. 156)

Pack ⁽¹⁾	Cat. Nos.	Markers for cables 0.15 to 0.5 mm ² and 0.5 to 1.5 mm ² cross section and terminal blocks
		On Viking 3 terminal blocks - 4 markers 0.15 to 0.5 mm ² max. - 3 markers 0.15 to 1.5 mm ² max.
		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	⊕

Pack ⁽¹⁾	Cat. Nos.	Markers for cables 1.5 to 2.5 mm ² and 4 to 6 mm ² cross section
		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	⊕

(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



Technical information (opposite)

Pack	Cat. Nos.	CAB 3 accessories
		Marker holders – for cable
		For cables with cross section from 10 mm ² to 70 mm ²
		Capacity :
		8 digit, letter or symbol markers from 0-5 to 1-5 mm ² or 1-5 to 2-5 mm ² cross section
		Black
100	0384 90	10 to 16 mm ² cable cross section
50	0384 91	25 to 35 mm ² cable cross section
50	0384 92	50 to 70 mm ² cable cross section
		Marker holders – for Viking 3 terminal blocks
100	0383 92	Can be clipped onto Viking 3 terminal blocks
		Capacity :
		7 markers from 0-15 to 0-5 mm ²
		6 markers from 0-5 to 1-5 mm ²
		Transparent applicators
		For rapid selection and application of markers onto cable
		For markers cross section (mm ²)
		Applicator colour for identification of cross section
10	0383 94	0-15 to 0-5
10	0383 95	0-5 to 1-5
10	0383 96	1-5 to 2-5
10	0383 97	4 to 6
		Set of mixed markers
1	0382 01	0-15 to 0-5 mm ² : 2 500 markers
		+ 10 applicators (250 digits from 0 to 9)
1	0382 02	0-5 to 1-5 mm ² : 3 000 markers
		+ 10 applicators (300 digits from 0 to 9)
1	0382 03	1-5 to 2-5 mm ² : 3 000 markers
		+ 10 applicators (300 digits from 0 to 9)
1	0382 04	4 to 6 mm ² : 2 000 markers
		+ 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.
		Height 85 mm, depth 280 mm, width 450 mm
		Metal, padlockable
		Supplied empty

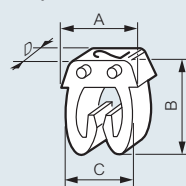
CAB 3® marking system

for cables and Viking 3 terminal blocks

■ Dimensions

Markers

Polyamide 6/6



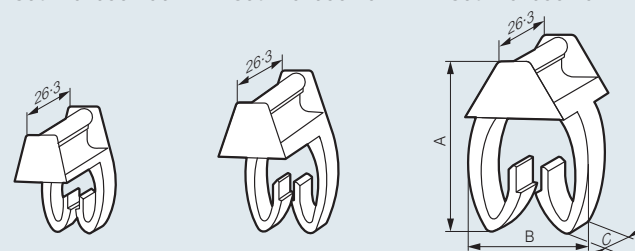
Dimensions	Cable cross section (mm ²)			
	0-15 to 0-5	0-5 to 1-5	1-5 to 2-5	4 to 6
A (mm)	5	5	5-6	8
B (mm)	5-05	6-4	7-6	9-6
C (mm)	3-7	4-3	4-9	7-1
D (mm)	2-3	3	3	3
Ø min./max. (mm)	0-8/2-2	2-2/3	2-8/3-8	4-3/5-3

Marker holders – for cable

Cat. No. 0384 90

Cat. No. 0384 91

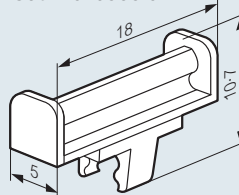
Cat. No. 0384 92



Dim.	Section of cable for marking (mm ²)		
	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

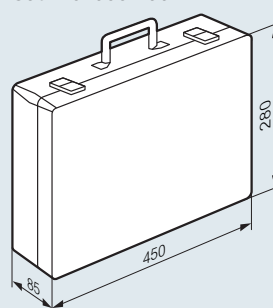
Marker holders – for Viking 3 terminal blocks

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

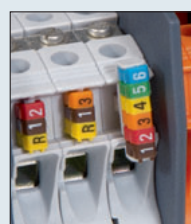
Top tray consists of :

- 12 small slots (<=> approx. 6 boxes of CAB 3)
- 1 medium slot for applicators

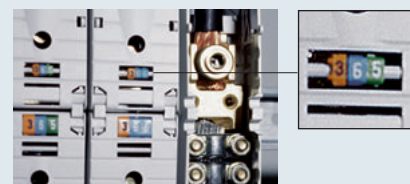
Capacity : approx. 15 000 CAB 3 markers

■ 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)

Pack	Cat. Nos.	Colring cable ties with internal teeth						
		Polyamide 6/6 colourless						
		Blister packed						
		Width (mm)	Flat length (mm)	Max. Ø grip capacity (mm)	Min. Ø grip capacity (mm)	Weight (g)		
		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						
		UV protected						
		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		
Self-adhesive base		
100	0320 65	For ties up to 4-6 mm max. width Colourless
Screw mounting bases		
1000	0320 70	For ties 4-6 mm max. width Central fixing (screw Ø 4 mm)
100	0320 72	For ties all widths Central fixing (screw Ø 5 mm)
Tool for Colring cable ties		
Max. width 4-6 mm Direct adjustment of clamping tension by using the milled screw at the base of the handle 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)

Pack	Cat. Nos.	Colson UV protected cable ties				
		UV protected External teeth Black polyamide 12				
		Width (mm)	Flat length (mm)	Max. Ø grip capacity (mm)	Min. Ø grip capacity (mm)	Weight (g)
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		
Screw-on base		
100	0319 50	Black For ties max. width 9 mm. 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 Ø 8 mm drilling
Tool for Colson cable ties		
1	0319 96	Black and red finish 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. ratchet force (daN)	Tensile strength	
Colourless Non UV protected	Black High temperature UV protected		According to EN 50146	
			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 absorption ⁽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 %

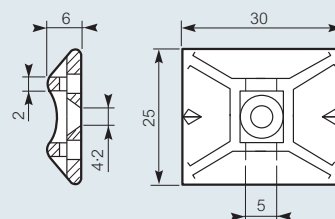
Fire resistance

- 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)

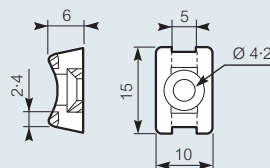
■ Dimensions

Accessories for Colring

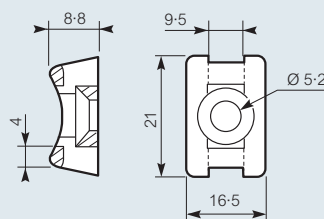
Cat. No. 0320 65



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

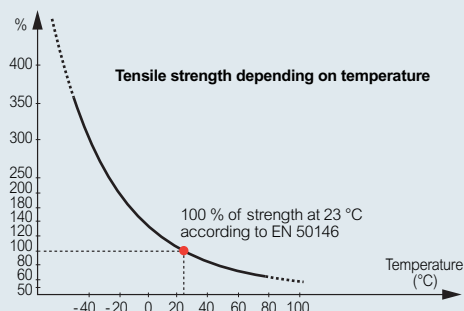
■ Technical data

Constant high quality

Type tests

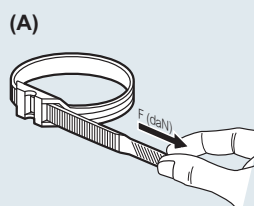
- Raw material test
- Product test on the production line and in the laboratory
- Packaging test

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



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

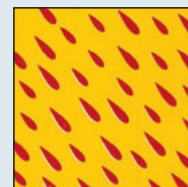
UV protected black cable ties for outdoor use
These black cable ties have successfully undergone UV resistance and climatic ageing tests representing actual conditions of use
These cycles combine a 1000 hours radiance under arc or xenon lamp according to ISO 4892-2 method 1

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 absorption ⁽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

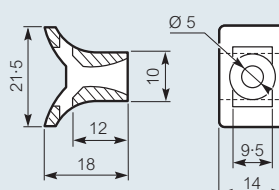
■ Colson traceability

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

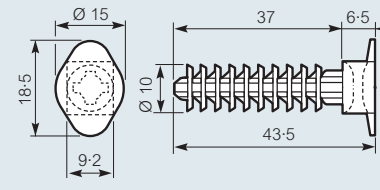
■ Dimensions

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 87



0376 64



0376 66



0376 67



0376 68



0376 43



0376 09 + refill 0376 43



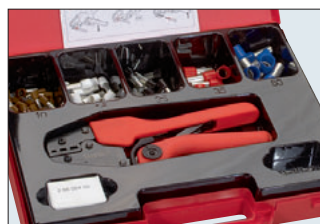
Adjustable cross section



0376 39



0376 06



0376 92

Technical information (p.161)

Pack	Cat. Nos.	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			
		For cables cross section (mm ²)	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			
100	0376 69	10	brown		
100	0376 70	16	white		
50	0376 71	25	black		
		Individual ferrules - double			
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			
		Cross section (mm ²)	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

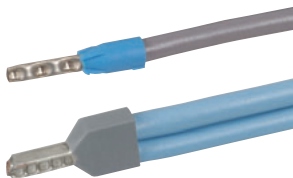
Cross sections in mm ² :	0-5	0-75	1	1-5	2-5	4	6

Pack	Cat. Nos.	Crimping tools for ferrules in strips	
		Cut and carry out 4-point crimping of ferrules from 0-25 to 6 mm ² 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	
1	0376 08	For ferrules with 0-25 and 0-34 mm² cross sections Supplied with empty applicator fitted	
1	0376 09	For ferrules with 0-5 to 2-5 mm² cross sections Fitted with an adjustment wheel Supplied with empty applicator fitted	
1	0376 10	For ferrules with 4 and 6 mm² cross sections Fitted with an adjustment wheel Supplied complete with empty applicator	
1	0376 39	Transport case for on-site use Assorted kit, comprising : - 1 Starfix crimping tool, Cat. No. 0376 09 with empty applicator fitted - 120 x 0-5 mm ² ferrules - 120 x 0-75 mm ² ferrules - 240 x 1-0 mm ² ferrules - 320 x 1-5 mm ² ferrules - 200 x 2-5 mm ² ferrules	
1	0376 97	Multi-purpose crimping tool for 0-5 to 2-5 mm² cross sections Tool cuts, strips, twists, crimps Supplied complete with 5 empty applicators	
		Crimping tool for single and double ferrules	
		Starfix crimping tool for 0-25 to 6 mm² cross sections For 4-point crimping of ferrules from 0-25 to 6 mm ² Recommended for spring connections Crimping tool with disengageable control system, crimping at end For right and left-handed usage	
1	0376 06		
1	0376 92	Transport case for on-site use Assorted kit. Supplied with : - 1 tool with crimping operation control system for individual ferrules 10 to 50 mm ² - 30 individual ferrules 10 mm ² - 20 individual ferrules 16 mm ² - 15 individual ferrules 25 mm ² - 10 individual ferrules 35 mm ² - 10 individual ferrules 50 mm ²	

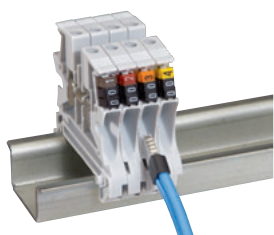
applicators for Starfix® crimping tools



0376 47



Example of single/double ferrules fitted on cables



Example of use with Viking 3 terminals



Technical information (opposite)

Pack Cat. Nos. Starfix applicators

Pack	Cat. Nos.	For Starfix crimping tools
		For dispensing strips of ferrules in Starfix crimping tools Cat. Nos. 0376 08/09/10/97
10	0376 46	For ferrules cross section (mm ²) 0.25 and 0.34
10	0376 47	0.5 to 2.5
10	0376 48	4 and 6
		Colour yellow red orange

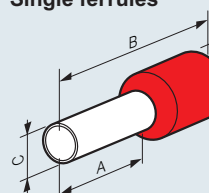
Starfix® ferrules, crimping tools and applicators

Correspondance table

Cross section (mm ²)			
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

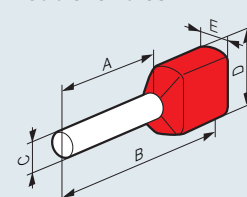
Dimensions (mm)

Single ferrules



Cat. Nos.	Cross section (mm ²)	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	0.5	8	14.5	1.5	3.4
0376 62	0.75	8	14.5	1.5	3.4
0376 63	1.0	8	14.5	1.7	3.6
0376 64	1.5	8	14.5	2	4.1
0376 66	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 (mm ²)	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



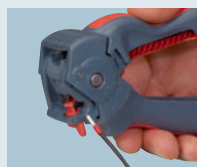
1 Fit the applicator



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**



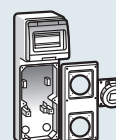
P. 196
IP 44
combination units
16/32/63 A

**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



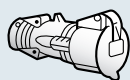
P. 169
IP 44/55
panel and surface
mounting sockets
LV 32 A



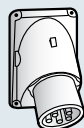
P. 169
IP 44/55
panel and surface
mounting sockets
LV 63 A



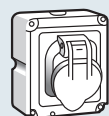
P. 170
Technical
information



P. 175 NEW
IP 44
plugs and sockets
ELV 16 A and
LV 16 A



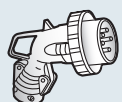
P. 176 NEW
IP 44
plugs and sockets
LV 32 A



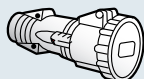
P. 176
IP 44
plugs and sockets
LV 63 A



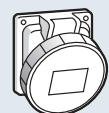
P. 177
Technical
information



P. 181 NEW
IP 66/67-55
plugs and sockets
LV 16 A



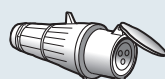
P. 182
IP 66/67-55
plugs and sockets
LV 32 A



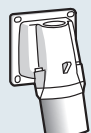
P. 182
IP 66/67-55
plugs and sockets
LV 63/125 A



P. 183
Technical
information



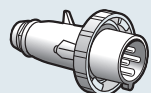
P. 189
IP 44
plugs and sockets
LV 16 A



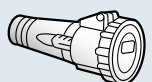
P. 189
IP 44
plugs and sockets
LV 32 A



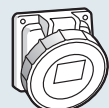
P. 190
Technical
information



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



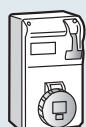
P. 196
IP 44
combination units
with Prisinter
16/32 A



P. 197
IP 66/67-55
combination units
LV 16/32/63 A



P. 198
Technical
information



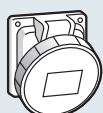
P. 200
IP 55
combination units
LV 16/32 A



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

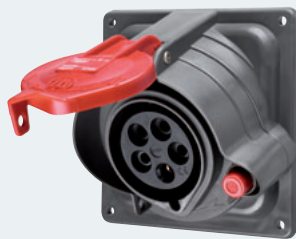


P. 204
Plugs and sockets
pin configurations

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.

HYPRRA – 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 –

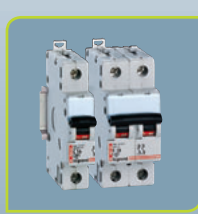
- IP44, IP55 and IP66 ranges
- IK08

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.



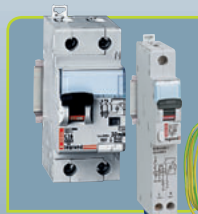
Enclosures
see p. 8 to 45



MCBs
see p. 79 to 82



RCDs
see p. 83



RCBOs
see p. 84

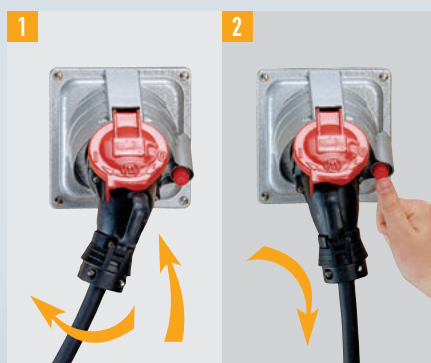
Hypra® Prisinter...

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

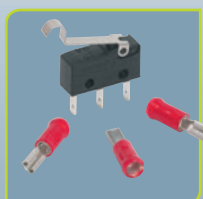
Related products and accessories



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)



Prisinter

			Panel mounting sockets		Surface mounting sockets		Auxiliary c/o contact microswitch
LV			METAL	PLASTIC	METAL	PLASTIC	
100 to 130 V 50/60 Hz	16 A	2 P + $\perp$	—	0519 10	—	0519 10+ 0520 49	0521 96
		2 P + $\perp$	—	0520 02	—	0520 02+ 0520 49	0521 96
200 to 250 V 50/60 Hz	16 A	3 P + $\perp$	—	0520 03	—	0520 03+ 0520 49	0521 96
		3 P + N + $\perp$	—	0520 04	—	0520 04+ 0522 49	0521 96
		2 P + $\perp$	—	0527 02	—	0527 02+ 0529 49	0521 96
	32 A	3 P + $\perp$	—	0527 03	—	0527 03+ 0529 49	0521 96
380 to 415 V 50/60 Hz	16 A	3 P + $\perp$	0522 13	0522 03	0522 13+ 0520 59	0522 03+ 0520 49	0521 96
		3 P + N + $\perp$	0522 14	0522 04	0522 14+ 0529 59	0522 04+ 0522 49	0521 96
	32 A	3 P + $\perp$	0529 13	0529 03	0529 13+ 0522 59	0529 03+ 0529 49	0521 96
		3 P + N + $\perp$	0529 14	0529 04	0529 14+ 0522 59	0529 04+ 0529 49	0521 96
	63 A	3 P + $\perp$	0538 00	0536 03	0538 00+ 0538 09	0536 03+ 0537 49	0521 96
		3 P + N + $\perp$	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	Plastic	
1	0519 10	0520 02	2 P + $\perp$
1	0520 02	0520 03	3 P + $\perp$
1	0520 03	0520 04	3 P + N + $\perp$
1	0522 13	0522 03	3 P + $\perp$
1	0522 14	0522 04	3 P + N + $\perp$

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~

2 P + $\perp$

200/250 V~

2 P + $\perp$

3 P + $\perp$

3 P + N + $\perp$

380/415 V~

3 P + $\perp$

3 P + N + $\perp$

Surface mounting boxes

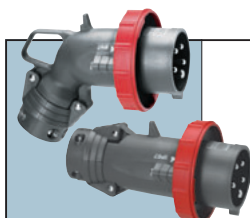
Enable Hypra Prisinter panel mounting
sockets to be surface mounted
Reversible entry box with 3 x M20 entries
with 2 blanking plugs plus rear knockout
entries

	Metal	Plastic	
1	0520 59	0520 49	For 2 P + $\perp$ / 3 P + $\perp$ sockets
1	0529 59	0522 49	For 3 P + N + $\perp$ 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.		Prisinter panel mounting sockets 32 A	
			Load break disconnect at the push of the button Accepts Ø6 mm padlock with cover closed Terminals accept 2.5 mm ² to 10 mm ² rigid cable (BS EN 60309-1 and IEC 60309-1) Possibility to fit 2 auxiliary C/O contacts Cat. No. 0521 96	
			200/250 V~	
1	Metal	0527 02	2 P + $\perp$	
1	Plastic	0527 03	3 P + $\perp$	
			380/415 V~	
1	0529 13	0529 03	3 P + $\perp$	
1	0529 14	0529 04	3 P + N + $\perp$	

Pack	Cat. Nos.		Surface mounting boxes
			Enable Hypra Prisinter panel mounting sockets to be surface mounted 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	Metal	0522 59	For 2 P + $\perp$ / 3 P + $\perp$ / 3 P + N + $\perp$ sockets
	Plastic	0529 49	

Hypra® Prisinter IP 44/55 - LV 63 A

interlocked switched sockets



0538 00 + 0538 09



Turn plug to lock in position and connect power



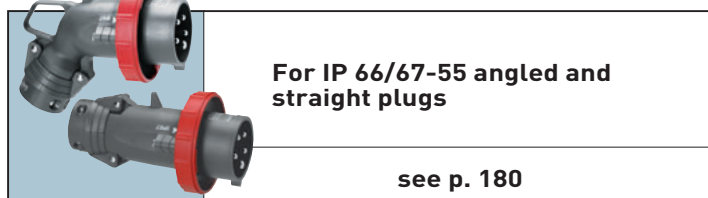
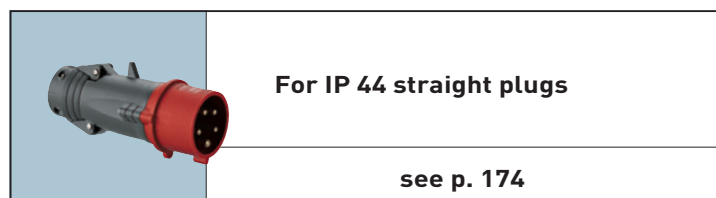
Press the isolator button to disconnect power and remove the plug

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.		Prisinter panel mounting sockets 63 A	
			Load break disconnect at the push of the button Accepts 3 x Ø8 mm padlocks with cover closed IP 2x protection against direct contact Terminals accept 6 mm ² to 25 mm ² rigid cable Possibility to fit 2 auxiliary C/O contacts Cat. No. 0521 96	
			380/415 V~	
1	Metal	0538 00	3 P + $\perp$	
1	Plastic	0536 03	3 P + N + $\perp$	
			380/415 V~	
1	0538 01	0536 04	3 P + N + $\perp$	

Pack	Cat. Nos.		Surface mounting boxes
			Enable Hypra Prisinter panel mounting sockets to be surface mounted Reversible entry box with 2 x M32 and 1 x M20 entries with 1 x M32 and 1 x M20 blanking plugs
1	Metal	0538 09	For 3 P + $\perp$ / 3 P + N + $\perp$ sockets
	Plastic	0537 49	



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

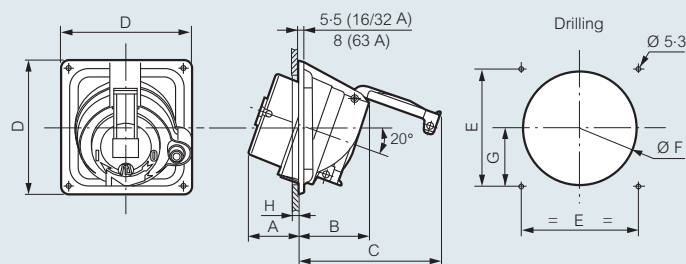
Stainless steel screws

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)		G (mm)	H (mm)
	min.	max.									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

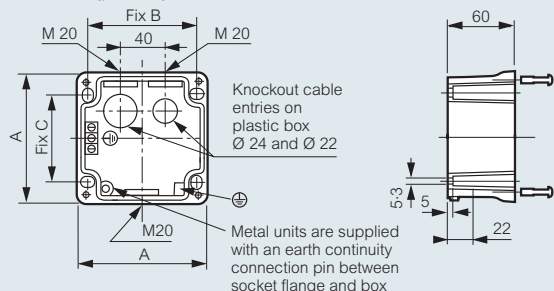
Padlockable cover in closed position

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

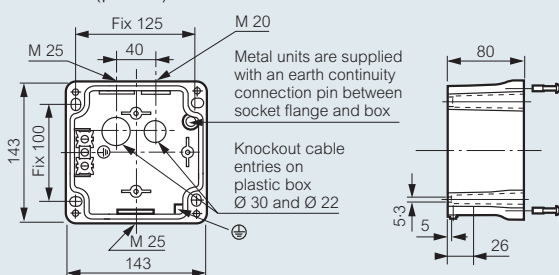
Equipped with :

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 + ⊕	Plastic	0.14	115	97	78
3 P + ⊕	Plastic	0.16	125	107	88
3 P + N + ⊕	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

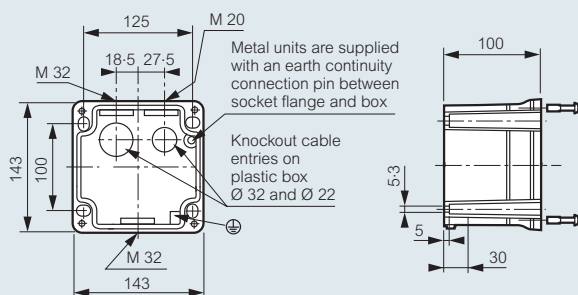
Equipped with :

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

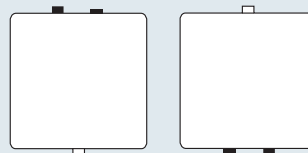
Equipped with external earth terminal on the metal box

Material	Weight (kg)
Plastic	0.35
Metal	1.75

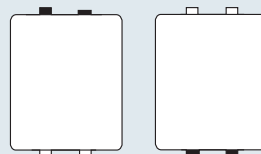
■ Box entries

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.

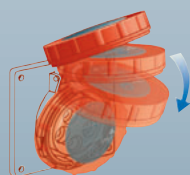
The plastic and rubber units are IK09 rated, while the class leading metal units are IK10 rated – the highest rating for impact.

FEATURES:

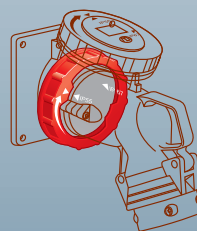
- **Integrated cable gland on entire IP66/67-55 range** - providing the highest levels of ingress protection
- **Captive, slotted connection screws** - for fast secure connections
- **Nickel-plated brass pins and contact sleeves** - creating high quality, reliable connections
- **Captive, stainless steel external screws** - maximise durability
- **Double jaw cable clamps** - provide powerful cable fastening
- **Available in 2 ranges** - IP44 and IP66/67-55



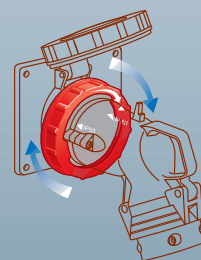
UNDERSTANDING THE IP66/67-55 RATING



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)

ELV			Straight plugs	Mobile sockets	Panel appliance inlets	Surface mounting sockets		Through entry surface mounting sockets	Panel mounting sockets		
			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

**Modular sockets have
70 x 70 mm fixing centres
across 16 A and 32 A range**

see 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

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

Pack Cat. Nos. 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	
Pack	Cat. Nos.	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	
Pack	Cat. Nos.	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 + ⊥	
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

Pack	Cat. Nos.	LV Plastic	Covers available, see opposite
1	0519 70	2 P + ⊥	100 to 130 V~
			200 to 250 V~
1	0521 72	2 P + ⊥	
1	0520 73	3 P + ⊥	
			380 to 415 V~
1	0521 73	3 P + ⊥	
1	0521 74	3 P + N + ⊥	

Pack Cat. Nos. Panel mounting sockets 16 A

Pack	Cat. Nos.		Panel mounting sockets	
	ELV			
	Metal	Plastic		20 to 25 V~
5		0524 01	2 P	
1		0524 02	3 P	
				20 to 50 V=
1		0524 05	2 P	
	LV			
	Metal	Plastic		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 + ⊥	
				
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

Surface mounting boxes

For ELV 2 P / 3 P sockets
For LV 16 A 2 P + ⊥ sockets
For LV 16 A 3 P + ⊥ / 3 P + N + ⊥ sockets

Through entry surface mounting boxes

For LV 16 A 2 P + ⊥ sockets
For LV 16 A 3 P + ⊥ / 3 P + N + ⊥ sockets

Appliance inlet covers

For LV 16 A 2 P + ⊥ appliance inlets
For LV 16 A 3 P + ⊥ appliance inlets
For LV 16 A 3 P + N + ⊥ appliance inlets

Hypra® IP 44 - LV 32 A

metal and plastic plugs and sockets



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
1	Plastic	200 to 250 V~
1	0527 42	2 P + $\perp$
1	0527 43	3 P + $\perp$
1	0529 43	380 to 415 V~
1	0529 44	3 P + $\perp$
1		3 P + N + $\perp$

Pack	Cat. Nos.	Mobile sockets 32 A
1	Plastic	200 to 250 V~
1	0527 82	2 P + $\perp$
1	0527 83	3 P + $\perp$
1	0529 83	380 to 415 V~
1	0529 84	3 P + $\perp$
1		3 P + N + $\perp$

Pack	Cat. Nos.	Panel appliance inlets 32 A
1	Plastic	Covers available, see below
1	0528 72	200 to 250 V~
1		2 P + $\perp$
1	0528 73	380 to 415 V~
1	0528 74	3 P + $\perp$
1		3 P + N + $\perp$

Pack	Cat. Nos.	Panel mounting sockets 32 A
1	Metal	200 to 250 V~
1	0527 32	2 P + $\perp$
1	0527 33	3 P + $\perp$
1	0529 33	380 to 415 V~
1	0529 34	3 P + $\perp$
1	0529 20	3 P + N + $\perp$

Pack	Cat. Nos.	Back boxes
1	Metal	Surface mounting boxes
1	0529 39	For LV 32 A 2 P + $\perp$ / 3 P + $\perp$ / 3 P + N + $\perp$ sockets
5	Plastic	Through entry surface mounting boxes
5	0529 90	For LV 32 A 2 P + $\perp$ / 3 P + $\perp$ / 3 P + N + $\perp$ sockets

Pack	Cat. Nos.	Appliance inlet covers
5	0521 27	For LV 32 A 2 P + $\perp$ / 3 P + $\perp$ appliance inlets
5	0527 99	For LV 32 A 3 P + N + $\perp$ appliance inlets

Hypra® IP 44 - LV 63 A

metal and plastic plugs and sockets



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
1	Plastic	380 to 415 V~
1	0538 43	3 P + $\perp$
1	0538 44	3 P + N + $\perp$

Pack	Cat. Nos.	Mobile sockets 63 A
1	Plastic	380 to 415 V~
1	0538 83	3 P + $\perp$
1	0538 84	3 P + N + $\perp$

Pack	Cat. Nos.	Panel appliance inlets 63 A
1	Plastic	380 to 415 V~
1	0537 73	3 P + $\perp$
1	0537 74	3 P + N + $\perp$

Pack	Cat. Nos.	Surface mounting socket 63 A
1	Plastic	380 to 415 V~
1	0537 24	3 P + N + $\perp$

Pack	Cat. Nos.	Panel mounting sockets 63 A
1	Metal	380 to 415 V~
1	0538 33	3 P + $\perp$
1	0538 34	3 P + N + $\perp$
1	Plastic	
1	0538 23	3 P + $\perp$
1	0538 24	3 P + N + $\perp$

Pack	Cat. Nos.	Appliance inlet cover
5	0536 99	For LV 63 A 3 P + $\perp$ / 3 P + N + $\perp$ 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 ²)	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

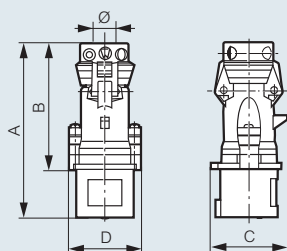
Tightening torque of connection screws

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

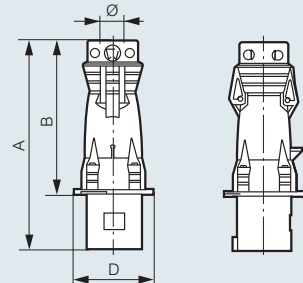
■ Dimensions

Straight plugs IP 44

ELV 16 A, LV 16/32 A (p. 175-176)



LV 63 A (p. 176)

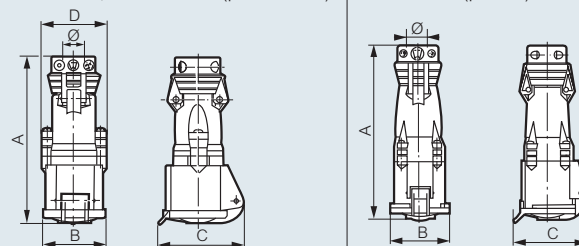


	Material	Weight (kg)	A	Dimensions (mm)	Ø Clamping and grip (mm)
				B C D	
ELV 16 A					
2 P	Plastic	0.180	142	107 62	55 8.5 to 22
LV 16 A					
2 P + ⊥	Plastic	0.150	135	100 57	55 8 to 15
3 P + ⊥	Plastic	0.175	139	103 65	60 8 to 15
3 P + N + ⊥	Plastic	0.210	154	118 73	66 10 to 18
LV 32 A					
2 P + ⊥	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)

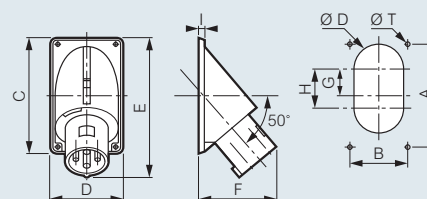
Mobile sockets IP 44

ELV 16 A, LV 16/32 A (p. 175-176) LV 63 A⁽¹⁾ (p. 176)



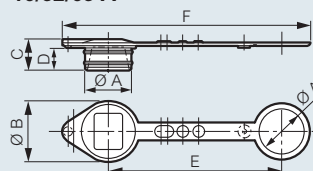
	Material	Weight (kg)	Dimensions (mm)	Ø Clamping and grip (mm)
			A B C D	
ELV 16 A				
2 P	Plastic	0.190	148 54.5 74	55 8.5 to 22
LV 16 A				
2 P + ⊥	Plastic	0.170	147 54.5 74	55 8 to 15
3 P + ⊥	Plastic	0.200	151 61.5 81	60 8 to 15
3 P + N + ⊥	Plastic	0.245	172 69.5 90	66 10 to 18
LV 32 A				
2 P + ⊥	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)	Dimensions (mm)
			A B ØT ØD G 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 + ⊥ 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)

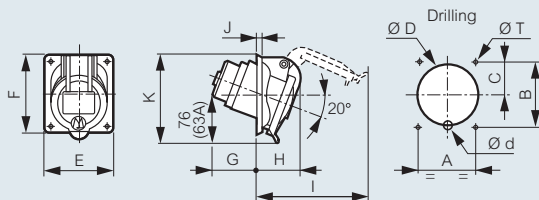
Hypra® IP 44 - ELV 16 A and LV 16/32 A

surface mounting back boxes

■ Dimensions (continued)

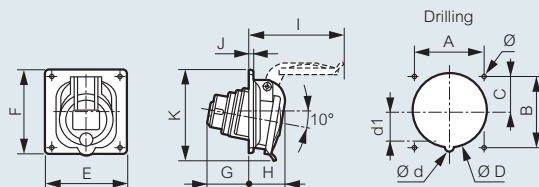
Panel mounting sockets IP 44

ELV 16 A plastic and LV 16/32/63 A plastic and metal (p. 175-176)



	Material	Weight (kg)	Drilling (mm)							Dimensions (mm)						
			A	B	C	ØD	Ød	ØT		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)

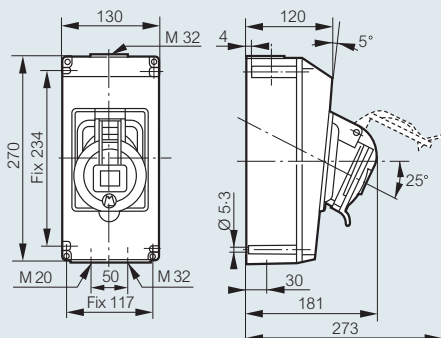


	Weight (kg)	Drilling (mm)							Dimensions (mm)							
		A	B	C	Ø D	Ø d	d1	E	F	G	H	I	J	K	Ø	
LV 16 A																
2 P + ±	0-110	70	70	35	76-2	–	–	84	84	37	36	89	4-5	88	4-2	
3 P + ±	0-140	70	70	35	76-2	–	–	84	84	43	36	97	4-5	89	4-2	
3 P + N + ±	0-165	70	70	35	76-2	–	–	84	84	43	37	106	4-5	91	4-2	
LV 32 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



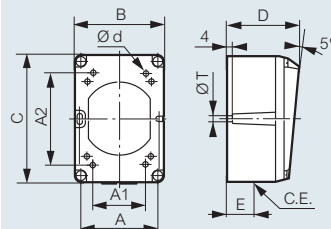
	Material	Weight (kg)
63 A		
3 P + ±	Plastic	1-50

■ Dimensions

Reversible boxes for surface mounting sockets

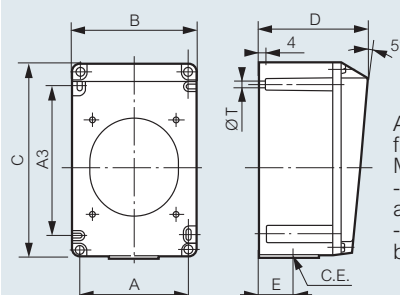
Boxes can be rotated to aid entry

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)							Dimensions (mm)					C.E.
			A1	A2	Ød	A	A3	ØT		B	C	D	E		
ELV 16 A/32 A															
2 P	Plastic	0-115	51	68	4-2	64	—	5-3	74	106	58	20	M25		
LV 16 A															
2 P + ±	Plastic	0-115	51	68	4-2	64	—	5-3	74	106	58	20	M20		
	Metal	0-520	68	68	4-2	85	—	5-3	96	122	60	22	M20		
3 P + N + ±	Plastic	0-160	68	68	4-2	85	—	5-3	96	122	60	22	M20		
	Metal	0-520													
LV 32 A															
2 P + ±	Plastic	0-340	—	—	—	90	125	5-3	102	162	90	26	M25		
	Metal	0-910													
3 P + ±	Plastic	0-340	—	—	—	90	125	5-3	102	162	90	26	M25		
	Metal	0-910													
3 P + N + ±	Plastic	0-340	—	—	—	90	125	5-3	102	162	90	26	M25		
	Metal	0-910													

Hypra® IP 44 - LV 16/32 A

through entry surface mounting boxes

Hypra® IP 44 - LV 63 A

pilot pin connection

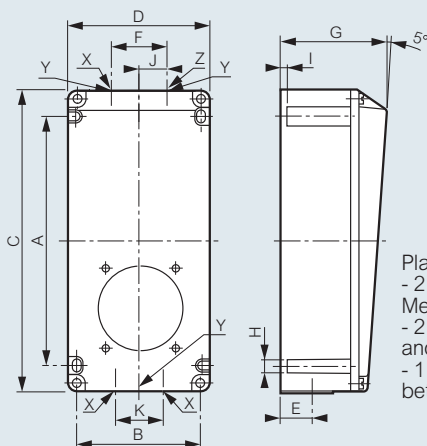
■ Technical information

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)



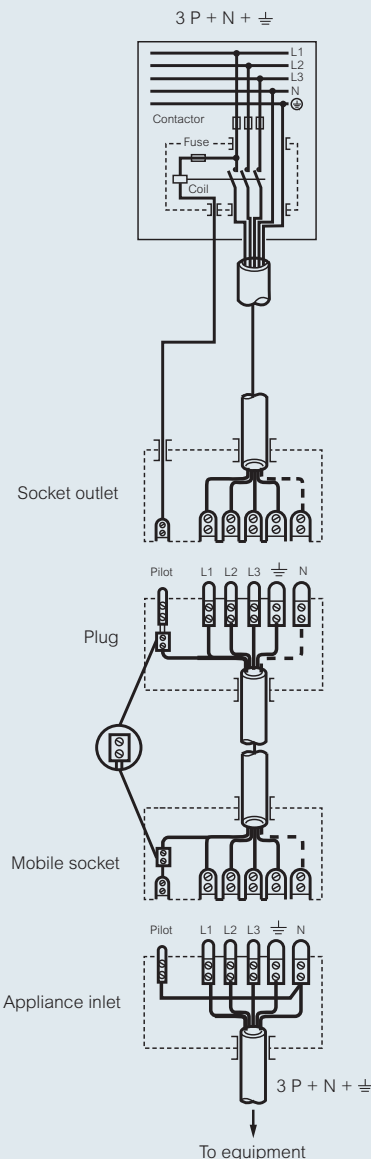
Plastic box equipped with :
- 2 internal linked earth terminals
Metal box equipped with :
- 2 internal linked earth terminals
and 1 external earth terminal
- 1 tulip earth pin connection
between base and cover

Back boxes → Panel mounting sockets ↓	Material	Weight (kg)	Fixings (mm)			Dimensions (mm)															
			A	B	H	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

■ 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



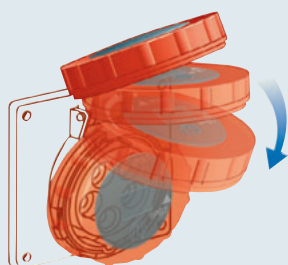
modular⁽¹⁾ with single
fixing centres

LV

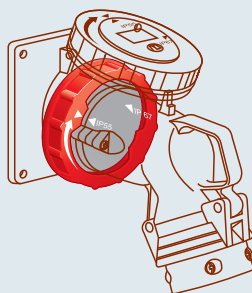
100 to 130 V 50/60 Hz	16 A	2 P + $\perp$	0511 55	—	0511 75	0511 25 + 0520 29	0511 25 + 0520 89	0511 25	—
200 to 250 V 50/60 Hz	16 A	2 P + $\perp$	0511 56	0511 06	0511 76	0511 26 + 0520 29	0511 26 + 0520 89	0511 26	0511 46
	32 A	2 P + $\perp$	0530 56	0530 06	0530 76	0530 46 + 0529 40	0530 46 + 0529 90	—	0530 46
380 to 415 V 50/60 Hz	16 A	3 P + $\perp$	0511 60	0511 10	0511 80	0511 30 + 0522 29	0511 30 + 0522 89	0511 30	0511 50
		3 P + N + $\perp$	0511 61	0511 11	0511 81	0511 31 + 0522 29	0511 31 + 0522 89	0511 31	0511 51
	32 A	3 P + $\perp$	0530 60	0530 10	0530 80	0530 50 + 0529 40	0530 50 + 0529 90	—	0530 50
		3 P + N + $\perp$	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 + $\perp$	0594 47	—	0594 87	0594 37	—	0594 27	—
		3 P + N + $\perp$	0594 48	—	0594 88	0594 38	—	0594 28	—
	125 A	3 P + $\perp$	0595 22	—	0595 32	0595 02	—	0595 12	—
		3 P + N + $\perp$	0595 23	—	0595 33	0595 03	—	0595 13	—

(1) 70 x 70 mm fixing centres

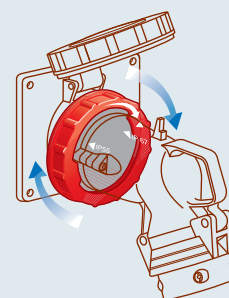
Complete range from 16 A to 125 A : IP 55 (minimum) guaranteed



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



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

Pack	Cat. Nos.	Straight plugs 16 A	
1	0511 55		100 to 130 V~
		2 P + $\perp$	
1	0511 56		200 to 250 V~
		2 P + $\perp$	
5	0511 60		380 to 415 V~
5	0511 61	3 P + $\perp$	
		3 P + N + $\perp$	

Pack	Cat. Nos.	Angled plugs 16 A	
1	0511 06		100 to 130 V~
		2 P + $\perp$	
1	0511 10		200 to 250 V~
1	0511 11		380 to 415 V~
		3 P + $\perp$	
		3 P + N + $\perp$	

Pack	Cat. Nos.	Mobile sockets 16 A	
1	0511 75		100 to 130 V~
		2 P + $\perp$	
1	0511 76		200 to 250 V~
		2 P + $\perp$	
1	0511 80		380 to 415 V~
1	0511 81	3 P + $\perp$	
		3 P + N + $\perp$	

Pack	Cat. Nos.		Panel mounting sockets 16 A	
	Plastic	Modular		100 to 130 V~
1	0511 25		2 P + $\perp$	
5/1	0511 26	0511 46		200 to 250 V~
			2 P + $\perp$	
1	0511 30	0511 50		380 to 415 V~
1	0511 31	0511 51	3 P + $\perp$	
			3 P + N + $\perp$	

Pack	Cat. Nos.	Back boxes	
5	0520 29	Surface mounting boxes	
5	0522 29	For LV 16 A 2 P + $\perp$ sockets	
		For LV 16 A 3 P + $\perp$ / 3 P + N + $\perp$ sockets	
1	0520 89	Through entry surface mounting boxes	
5	0522 89	For LV 16 A 2 P + $\perp$ sockets	
		For LV 16 A 3 P + $\perp$ / 3 P + N + $\perp$ 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	
1	0530 56	100 to 130 V~	2 P + ⊥
1	0530 60	380 to 415 V~	3 P + ⊥
1	0530 61		3 P + N + ⊥

Pack	Cat. Nos.	Angled plugs 32 A	
1	0530 06	100 to 130 V~	2 P + ⊥
1	0530 10	380 to 415 V~	3 P + ⊥
1	0530 11		3 P + N + ⊥

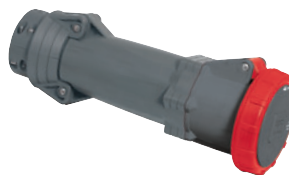
Pack	Cat. Nos.	Mobile sockets 32 A	
1	0530 76	100 to 130 V~	2 P + ⊥
1	0530 80	380 to 415 V~	3 P + ⊥
1	0530 81		3 P + N + ⊥

Pack	Cat. Nos.	Panel mounting sockets (modular) 32 A	
1	Modular 0530 46	100 to 130 V~	2 P + ⊥
1	0530 50	380 to 415 V~	3 P + ⊥
1	0530 51		3 P + N + ⊥

Pack	Cat. Nos.	Back boxes	
1	0529 40	Surface mounting boxes For LV 32 A 2 P + ⊥ / 3 P + ⊥ / 3 P + N + ⊥ sockets	
5	0529 90	Through entry surface mounting boxes 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.	Straight plugs 63 and 125 A	
1	63 A 125 A 0594 47 0595 22	380 to 415 V~	3 P + ⊥
1	0594 48 0595 23		3 P + N + ⊥

Pack	Cat. Nos.	Mobile sockets 63 and 125 A	
1	63 A 125 A 0594 87 0595 32	380 to 415 V~	3 P + ⊥
1	0594 88 0595 33		3 P + N + ⊥

Pack	Cat. Nos.	Surface mounting sockets 63 and 125 A	
1	63 A 125 A 0594 37 0595 02	380 to 415 V~	3 P + ⊥
1	0594 38 0595 03		3 P + N + ⊥

Pack	Cat. Nos.	Panel mounting sockets 63 and 125 A	
1	63 A 125 A 0594 27 0595 12	380 to 415 V~	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 ²)	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 + $\perp$	0.165	135	72.5	8 to 15
3 P + $\perp$	0.195	139	81	8 to 15
3 P + N + $\perp$	0.220	154	86.5	10 to 18
LV 32 A				
2 P + $\perp$	0.280	164	94.5	10 to 18
3 P + $\perp$	0.280	164	94.5	12 to 22
3 P + N + $\perp$	0.325	170	101	12 to 22

LV 63 A (p. 182)

	Weight (kg)	Ø Clamping and grip (mm)
LV 63 A		
3 P + $\perp$	0.680	18.5 to 29
3 P + N + $\perp$	0.750	20.5 to 32

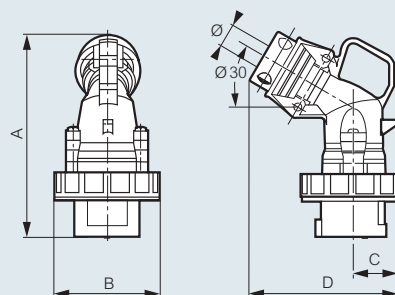
LV 125 A (p. 182)

	Weight (kg)	Ø Clamping and grip (mm)
LV 125 A		
3 P + $\perp$	1.54	24 to 48
3 P + N + $\perp$	1.7	28 to 48

■ Dimensions (continued)

Angled plugs IP 66/67-55

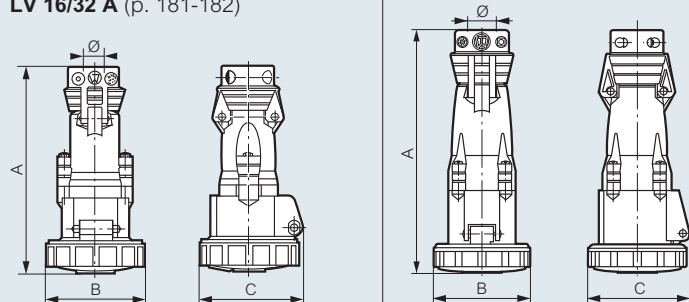
LV 16/32 A (p. 181-182)



	Weight (kg)	Dimensions (mm)				Ø Clamping and grip (mm)
		A	B	C	D	
LV 16 A						
2 P + $\perp$	0.165	136	72.5	29.5	100	8 to 15
3 P + $\perp$	0.195	141	81	33.5	105	8 to 15
3 P + N + $\perp$	0.220	150	86.5	37.5	114	10 to 18
LV 32 A						
2 P + $\perp$	0.280	161	94.5	39.5	116	10 to 18
3 P + $\perp$	0.280	161	94.5	39.5	116	12 to 22
3 P + N + $\perp$	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)			Ø Clamping and grip (mm)
			A	B	C	
LV 16 A						
2 P + $\perp$	Plastic	0.180	150	72.5	75.5	8 to 15
3 P + $\perp$	Plastic	0.215	154	81	86	8 to 15
3 P + N + $\perp$	Plastic	0.275	189	86.5	89	10 to 18
LV 32 A						
2 P + $\perp$	Plastic	0.320	179	94.5	99	10 to 18
3 P + $\perp$	Plastic	0.320	179	94.5	99	12 to 22
3 P + N + $\perp$	Plastic	0.375	185	101	106	12 to 22
LV 63 A						
3 P + $\perp$	Plastic	0.850	278	113.5	119	18.5 to 29
3 P + N + $\perp$	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 + $\perp$	1.8	24 to 48
3 P + N + $\perp$	2.0	28 to 48

(1) Wiring diagram for 63 A and 125 A shown on p. 185

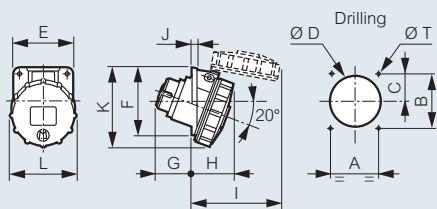
Hypra® IP 66/67-55 - LV 16/32/63/125 A

plastic plugs and sockets (continued)

■ Dimensions (continued)

Panel mounting sockets IP 66/67-55

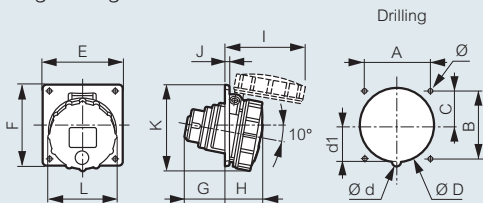
LV 16 A (p. 181)



	Weight (kg)	Drilling (mm)					Dimensions (mm)									
		A	B	C	ØD	ØT	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		

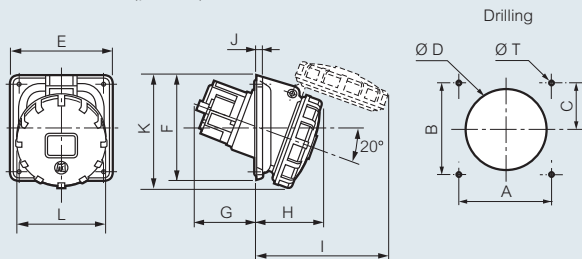
LV 16/32 A with modular fixings (p. 181-182)

Single fixing centres



	Weight (kg)	Drilling (mm)					Dimensions (mm)									
		A	B	C	ØD	Ød	d1	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)

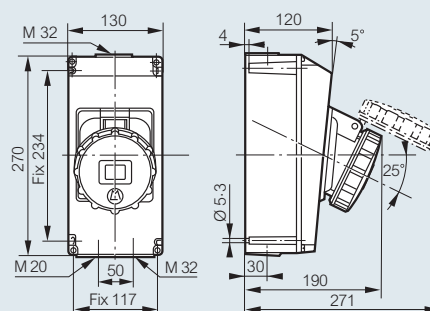


	Weight (kg)	Drilling (mm)					Dimensions (mm)									
		A	B	C	ØD	ØT	E	F	G	H	I	J	K	L		
LV 63 A																
3 P + ±	0.71	77	85	42.5	92	6.5	106	106	98	79	158	6	127	113.5		
3 P + N + ±	0.77	77	85	42.5	92	6.5	106	106	98	79	158	6	127	113.5		
LV 125 A																
3 P + ±	1.40	124	124	62	120	6.5	146	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)

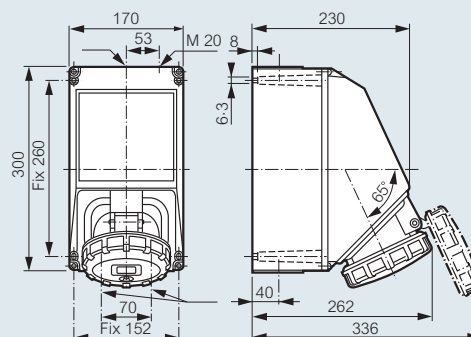
Surface mounting sockets IP 66/67-55

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

Hypra® IP 66/67-55 - LV 63 and 125 A

pilot pin connection

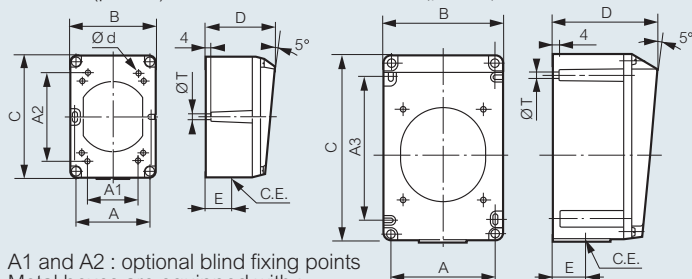
■ Dimensions

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 :

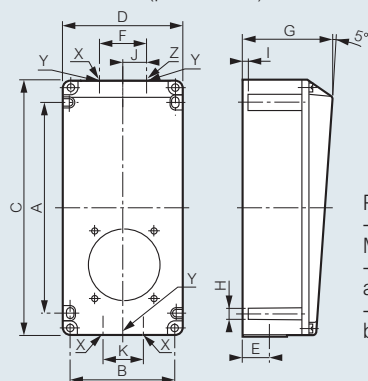
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

Back boxes → Panel mounting sockets ↓	Material	Weight (kg)	Fixings (mm)					Dimensions (mm)					C.E.
			A1	A2	ød	A	A3	ØT	B	C	D	E	
LV 16 A													
2 P + ⊕	Plastic	0.115	51	68	4.2	64	—	5.3	74	106	58	20	M20
3 P + ⊕	Plastic	0.160	68	68	4.2	85	—	5.3	96	122	60	22	M20
3 P + N + ⊕	Plastic	0.160	68	68	4.2	85	—	5.3	96	122	60	22	M20
LV 32 A													
2 P + ⊕ / 3 P + ⊕	Plastic	0.340	—	—	—	90	125	5.3	102	162	90	26	M25
3 P + N + ⊕													

Through entry surface mounting boxes

Reversible boxes for surface mounting through entry sockets

LV 16 to 63 A (p. 181-182)

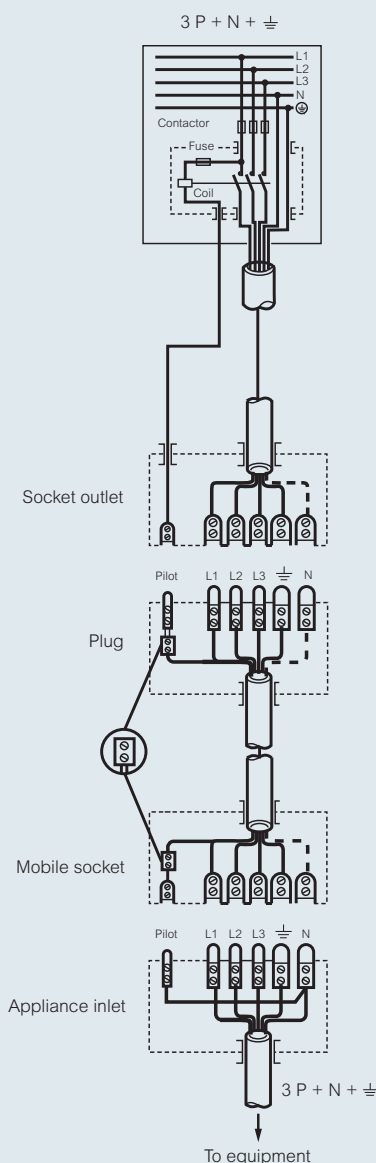


Plastic box equipped with :
- 2 internal linked earth terminals
Metal box equipped with :
- 2 internal linked earth terminals
and 1 external earth terminal
- 1 tulip earth pin connection
between base and cover

Back boxes → Panel mounting sockets ↓	Material	Weight (kg)	Fixings (mm)					Dimensions (mm)												
			A	B	H	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	—				
3 P + N + ⊕	Plastic	0.330	145	74	5.3	182	86	22	34	75	4	—	—	—	M20	—				
32 A																				
2 P + ⊕	Plastic	0.670	234	117	5.3	270	130	30	50	110	4	—	—	—	M25	—				
3 P + ⊕	Plastic	0.670	234	117	5.3	270	130	30	50	110	4	—	—	—	M25	—				
3 P + N + ⊕	Plastic	0.670	234	117	5.3	270	130	30	50	110	4	—	—	—	M25	—				
63 A																				
3 P + ⊕	Plastic	2.000	260	152	6.3	300	170	40	—	150	8	50	70	M32	—	M20				
3 P + N + ⊕	Plastic	2.000	260	152	6.3	300	170	40	—	150	8	50	70	M32	—	M20				

■ 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

Note : Through entry boxes provide extra wiring space but not looping terminals

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.

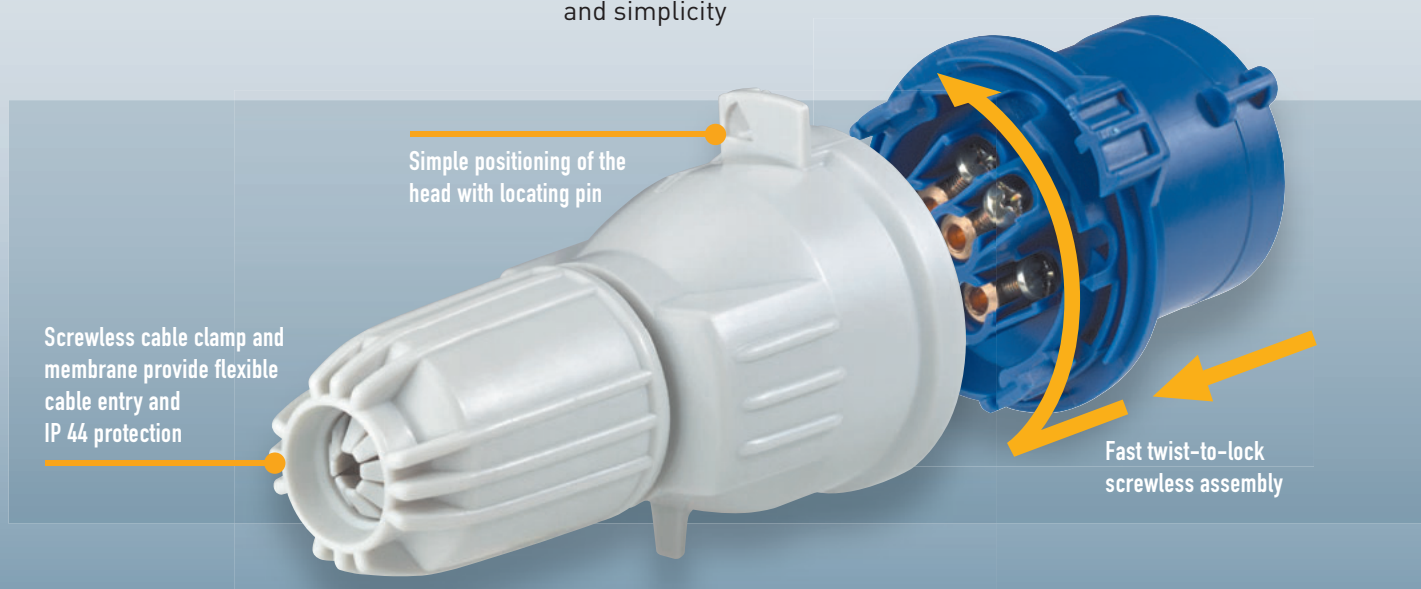
Packed with features which are designed to save assembly time, the range is available in IP44 and IP66/67 IK09 rated formats, ranging from plugs and mobile sockets to surface mounted sockets and appliance inlets.

Innovative design

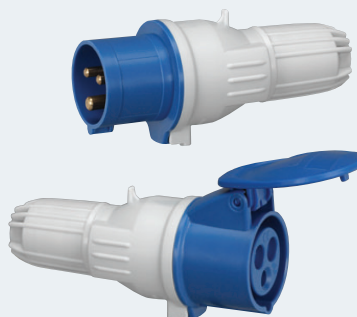
The two part plugs and mobile sockets feature a simple twist-lock action that reduces assembly time by incorporating a membrane gland entry with screwless cable clamp.

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

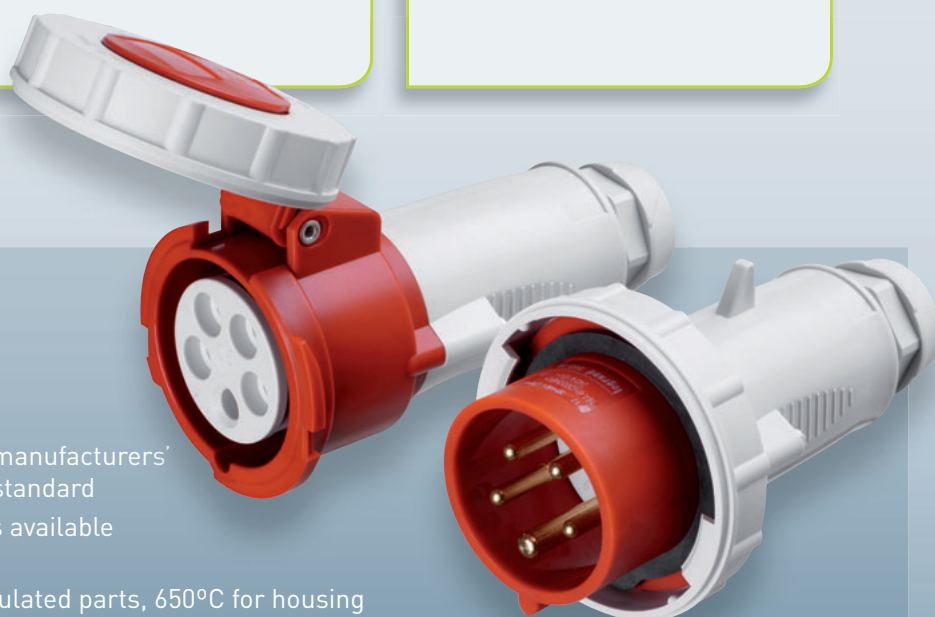
APPROVALS: BS EN 60309-1
 BS EN 60309-2
 BS EN 60529 (IP)
 BS EN 62262 (IK)

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 + $\perp$	0574 31	0575 11	0575 81	0553 50	0555 50	0576 10	0573 51
	32 A	2 P + $\perp$	0581 21	0582 01	—	—	—	0576 08	—
200 to 250 V 50/60 Hz	16 A	2 P + $\perp$	0574 34	0575 14	0575 84	0553 53	0555 53	0576 11	0573 54
	32 A	2 P + $\perp$	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 + $\perp$	0574 38	0575 18	0575 88	0553 57	0555 57	0576 17	0573 58
		3 P + N + $\perp$	0574 39	0575 19	0575 89	0553 58	0555 58	0576 23	0573 59
	32 A	3 P + $\perp$	0581 38	0582 18	—	—	—	0576 18	—
		3 P + N + $\perp$	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 + $\perp$	0563 03	0562 03	0553 03
	32 A	2 P + $\perp$	0563 23	0562 23	0553 23
	63 A	2 P + $\perp$	0587 00	0587 10	0587 40
380 to 415 V 50/60 Hz	16 A	3 P + $\perp$	0563 07	0562 07	0553 07
		3 P + N + $\perp$	0563 08	0562 08	0553 08
	32 A	3 P + $\perp$	0563 27	0562 27	0553 27
		3 P + N + $\perp$	0563 28	0562 28	0553 28
	63 A	3 P + $\perp$	0587 04	0587 14	0587 44
		3 P + N + $\perp$	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 + $\perp$ plug – 13 A 2 P + $\perp$ 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)

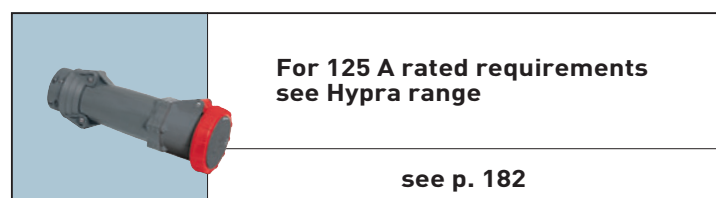
Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2
IP 44
IK 08 (surface mounting sockets)
IK 09 (straight plugs, mobile sockets, panel mounting sockets and appliance inlets)
Self-extinguishing : 850 °C for insulated parts (650 °C for housing and cover)
Temp. rating : -25 °C to +40 °C

Pack	Cat. Nos.		Straight plugs 16 and 32 A	
	16 A	32 A		
1/5	0574 31	0581 21	100 to 130 V~	2 P + ⊥
			200 to 250 V~	3 P + ⊥
1	0574 34	0581 34		3 P + N + ⊥
1			380 to 415 V~	3 P + ⊥
1	0574 38	0581 38		3 P + N + ⊥
1	0574 39	0581 39		

Pack	Cat. Nos.		Mobile sockets 16 and 32 A	
	16 A	32 A		
1/5	0575 11	0582 01	100 to 130 V~	2 P + ⊥
			200 to 250 V~	3 P + ⊥
1	0575 14	0582 14		3 P + N + ⊥
1			380 to 415 V~	3 P + ⊥
1	0575 18	0582 18		3 P + N + ⊥
1	0575 19	0582 19		

Pack	Cat. Nos.		Appliance inlets 16 and 32 A	
	16 A	32 A		
5	0575 81		100 to 130 V~	2 P + ⊥
			200 to 250 V~	3 P + ⊥
5	0575 84	0582 84		3 P + N + ⊥
5			380 to 415 V~	3 P + ⊥
5	0575 88			3 P + N + ⊥
5	0575 89	0582 89		

For appliance inlet covers see p. 174



Pack	Cat. Nos.		Surface mounting sockets 16 and 32 A	
	16 A	32 A		
5	0553 50		100 to 130 V~	2 P + ⊥
			200 to 250 V~	3 P + ⊥
10	0553 53	0553 73		3 P + N + ⊥
5			380 to 415 V~	3 P + ⊥
10	0553 57	0553 78		3 P + N + ⊥
10	0553 58			

Pack	Cat. Nos.		Surface mounting sockets inclined 16 and 32 A	
	16 A	32 A		
1	0555 50		100 to 130 V~	2 P + ⊥
			200 to 250 V~	3 P + ⊥
1	0555 53	0555 73		3 P + N + ⊥
1			380 to 415 V~	3 P + ⊥
1	0555 57	0555 78		3 P + N + ⊥
1	0555 58			

Pack	Cat. Nos.		Panel mounting sockets 16 and 32 A inclined modular	
	16 A	32 A		
5/1	0576 10	0576 08	100 to 130 V~	2 P + ⊥
			200 to 250 V~	3 P + ⊥
10	0576 11	0576 12		3 P + N + ⊥
10			380 to 415 V~	3 P + ⊥
10	0576 17	0576 18		3 P + N + ⊥
10	0576 23	0576 24		

Pack	Cat. Nos.		Panel mounting sockets 16 and 32 A straight small flange	
	16 A	32 A		
5	0573 51		100 to 130 V~	2 P + ⊥
			200 to 250 V~	3 P + ⊥
5	0573 54	0580 54		3 P + N + ⊥
5			380 to 415 V~	3 P + ⊥
5	0573 58	0580 59		3 P + N + ⊥
5	0573 59			

P 17 Temptra® 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

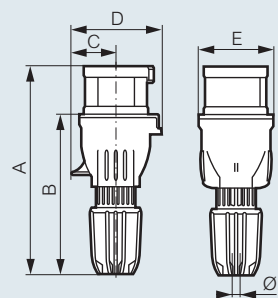
Type	Current	Conductors size (mm ²)	Conductors type
Straight plugs and mobile sockets	LV 16 A	1 to 2.5	Flexible
	LV 32 A	2.5 to 6	Flexible
Panel appliance inlets	LV 16 A	1 to 2.5	Rigid
	LV 32 A	2.5 to 6	Rigid
Surface and panel mounting sockets	LV 16 A	1.5 to 4	Rigid
	LV 32 A	2.5 to 10	Rigid

■ Dimensions

Straight plugs IP 44

LV 16/32 A

Design with twist clamp and membrane gland
Screwless body assembly (p. 189)



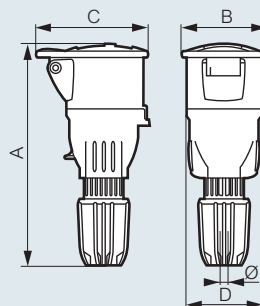
	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Ø clamping and grip (mm)
LV 16 A							
2P+⊥	0.122	143 to 159	106 to 122	30	65	56	8 to 14
3P+⊥	0.150	143 to 159	106 to 122	34	69	56	8 to 14
3P+N+⊥	0.177	152 to 168	115 to 131	38	78	65	10 to 18
LV 32 A							
2P+⊥	0.217	161 to 177	115 to 131	39	79	65	10 to 18
3P+⊥	0.234	161 to 177	115 to 131	39	79	65	12 to 20
3P+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

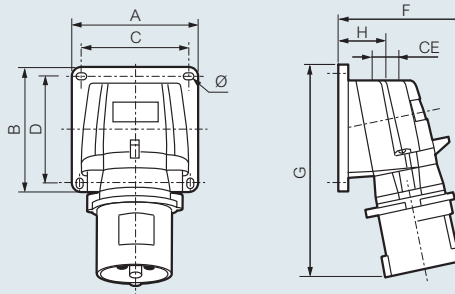
Design with twist clamp and membrane gland
Screwless body assembly (p. 189)



	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	Ø clamping and grip (mm)
LV 16 A						
2P+⊥	0.150	153 to 169	55	78	56	8 to 14
3P+⊥	0.179	153 to 169	62	85	56	8 to 14
3P+N+⊥	0.212	164 to 180	70	94	65	10 to 18
LV 32 A						
2P+⊥	0.240	174 to 190	71	98	65	10 to 18
3P+⊥	0.265	174 to 190	71	98	65	12 to 20
3P+N+⊥	0.305	177 to 191	77	101	72	14 to 21

Appliance inlets IP 44

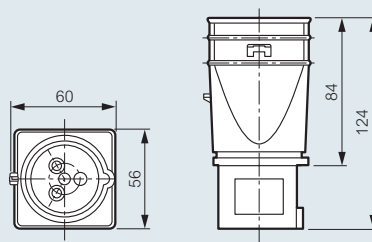
LV 16/32 A (p. 189)



	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										
2P+⊥	0.168	84	84	72	72	77	126	34	M20	4.3
3P+⊥	0.232	84	84	72	72	84	134	34	M20	4.3
3P+N+⊥	0.256	84	84	72	72	91	141	34	M20	4.3
LV 32 A										
3P+N+⊥	0.364	110	110	98	98	102	168	39	M25	5.3

Adaptor from IEC to BS (p. 188)

Cat. No. 0521 01
16 A 2P+⊥ 230 V plug to 13 A 3 pin BS socket



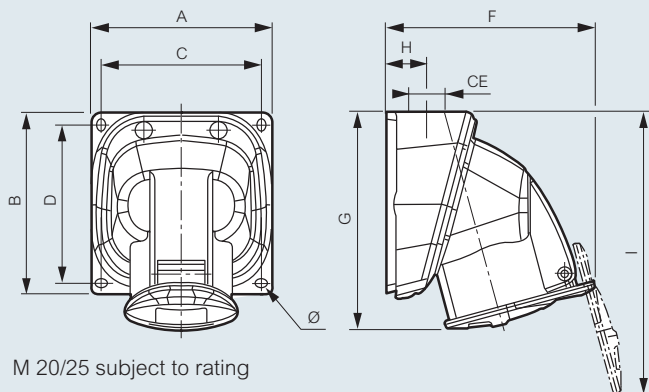
P 17 Tempra® IP 44 - LV 16 and 32 A

plastic plugs and sockets (continued)

■ Dimensions (continued)

Surface mounting sockets IP 44

LV 16/32 A (p. 189)

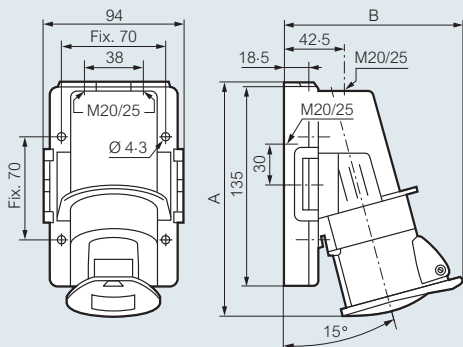


M 20/25 subject to rating

	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	M20	4.3
3P+±	0.244	100	100	88	87	115	120	24	156	M20	4.3
3P+N+±	0.269	100	100	88	87	118.5	121	24	162	M20	4.3
LV 32 A											
2P+±	0.220	70	70	35	76.2	—	—	84	94	54	44
3P+±	0.255	70	70	35	76.2	8	36	84	94	54	45

Surface mounting sockets inclined IP 44

LV 16/32 A (p. 189)



M 20/25 dual knockout entry

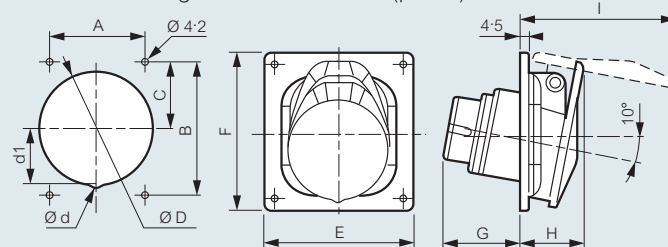
	A (mm)	B (mm)
LV 16 A		
2P+±	158	121
3P+±	158	123
3P+N+±	171	130
LV 32 A		
3P+N+±	192	140

■ Dimensions (continued)

Panel mounting sockets IP 44

LV 16/32 A

With modular fixing centres 70 x 70 mm (p. 189)

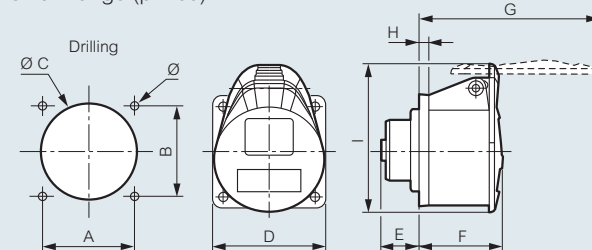


	Weight (kg)	A (mm)	B (mm)	C (mm)	Ø D (mm)	Ø d (mm)	d1 (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
LV 16 A												
2P+±	0.110	70	70	35	76.2	—	—	84	84	42	33	83.5
3P+±	0.140	70	70	35	76.2	—	—	84	84	43	34.5	91.3
3P+N+±	0.165	70	70	35	76.2	—	—	84	84	43	36.5	100
LV 32 A												
2P+±	0.220	70	70	35	76.2	—	—	84	94	54	44	112
3P+±	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

P 17 Tempra® IP 66/67 - LV 16/32/63 A

plastic plugs and sockets



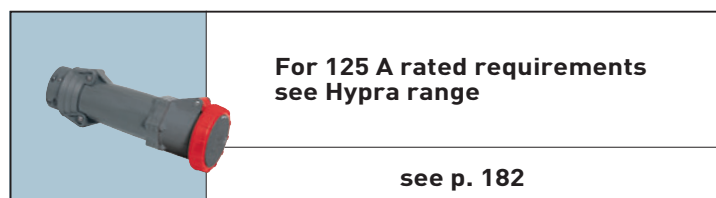
Technical information and dimensions (p. 193)
Conformity to International Standards (p. 204)

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

Pack	Cat. Nos.		Straight plugs 16/32/63 A	
	16 A	32 A		
5	0563 03	0563 23	2 P + $\perp$	200 to 250 V~
			380 to 415 V~	
5	0563 07	0563 27	3 P + $\perp$	200 to 250 V~
5	0563 08	0563 28	3 P + N + $\perp$	380 to 415 V~
	63 A			
1	0587 00		2 P + $\perp$	200 to 250 V~
			380 to 415 V~	
1	0587 04		3 P + $\perp$	200 to 250 V~
1	0587 05		3 P + N + $\perp$	380 to 415 V~

Pack	Cat. Nos.		Mobile sockets 16/32/63 A	
	16 A	32 A		
5	0562 03	0562 23	2 P + $\perp$	200 to 250 V~
			380 to 415 V~	
5	0562 07	0562 27	3 P + $\perp$	200 to 250 V~
5	0562 08	0562 28	3 P + N + $\perp$	380 to 415 V~
	63 A			
1	0587 10		2 P + $\perp$	200 to 250 V~
			380 to 415 V~	
1	0587 14		3 P + $\perp$	200 to 250 V~
1	0587 15		3 P + N + $\perp$	380 to 415 V~

Pack	Cat. Nos.		Surface mounting sockets 16/32/63 A	
	16 A	32 A		
5	0553 03	0553 23	2 P + $\perp$	200 to 250 V~
			380 to 415 V~	
5	0553 07	0553 27	3 P + $\perp$	200 to 250 V~
5	0553 08	0553 28	3 P + N + $\perp$	380 to 415 V~
	63 A			
1	0587 40		2 P + $\perp$	200 to 250 V~
			380 to 415 V~	
1	0587 44		3 P + $\perp$	200 to 250 V~
1	0587 45		3 P + N + $\perp$	380 to 415 V~



■ 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 accessible 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

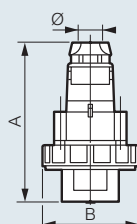
■ Connection capacity

Type	Current	Conductors size (mm ²)	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

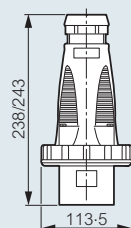
Straight plugs IP 66/67

LV 16/32 A (opposite)



	Weight (kg)	A (mm)	B (mm)	Ø clamping and grip (mm)
LV 16 A				
2 P + $\perp$	0.165	122	72.5	8 to 14
3 P + $\perp$	0.175	126	81	8 to 14
3 P + N + $\perp$	0.218	142	86.5	10 to 17.5
LV 32 A				
2 P + $\perp$	0.255	152	94.5	10 to 17.5
3 P + $\perp$	0.276	152	94.5	12 to 21.5
3 P + N + $\perp$	0.325	158	101	12 to 21.5

LV 63 A (opposite)

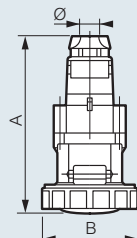


	Weight (kg)
3 P + $\perp$	0.57
3 P + N + $\perp$	0.64

	Ø clamping and grip (mm)
3 P + $\perp$	19.3 to 28.5
3 P + N + $\perp$	21.3 to 31.3

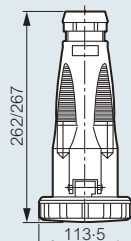
Mobile sockets IP 66/67

LV 16/32 A (opposite)



	Weight (kg)	A (mm)	B (mm)	C (mm)	Ø clamping and grip (mm)
LV 16 A					
2 P + $\perp$	0.180	139	72.5	78.5	8 to 14
3 P + $\perp$	0.215	144	81	89.5	8 to 14
3 P + N + $\perp$	0.275	160	86.5	92	10 to 17.5
LV 32 A					
2 P + $\perp$	0.320	171	94.5	103	10 to 17.5
3 P + $\perp$	0.320	171	94.5	103	12 to 21.5
3 P + N + $\perp$	0.387	177	101	109	12 to 21.5

LV 63 A (opposite)



	Weight (kg)
3 P + $\perp$	0.78
3 P + N + $\perp$	0.85

	Ø clamping and grip (mm)
3 P + $\perp$	19.3 to 28.5
3 P + N + $\perp$	21.3 to 31.3

P 17 Tempra® IP 66/67 - LV 16/32/63 A

plastic plugs and sockets (continued)

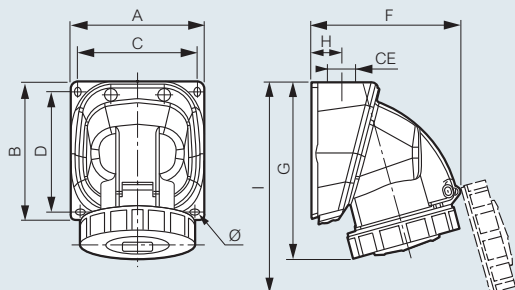
P 17 Tempra® IP 66/67 - LV 63 A

pilot pin connection

■ Dimensions (continued)

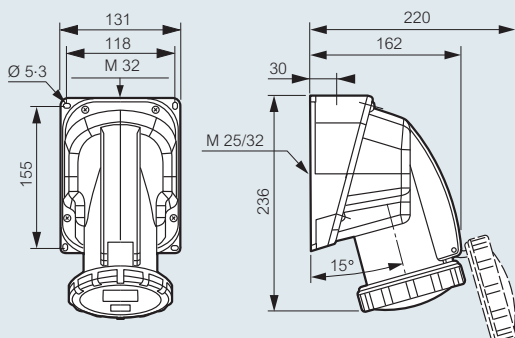
Surface mounting sockets IP 66/67

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 + $\perp$	0.230	84	84	73	72	94	112	20	130	M20	4.3
3 P + $\perp$	0.289	100	100	88	87	108	128	24	154	M20	4.3
3 P + N + $\perp$	0.317	100	100	88	87	110	129	24	157	M20	4.3
LV 32 A											
2 P + $\perp$	0.425	110	110	98	97	126	146	30	175	M25	5.3
3 P + $\perp$	0.425	110	110	98	97	126	146	30	175	M25	5.3
3 P + N + $\perp$	0.467	110	110	98	97	136	170.5	30	205	M25	5.3

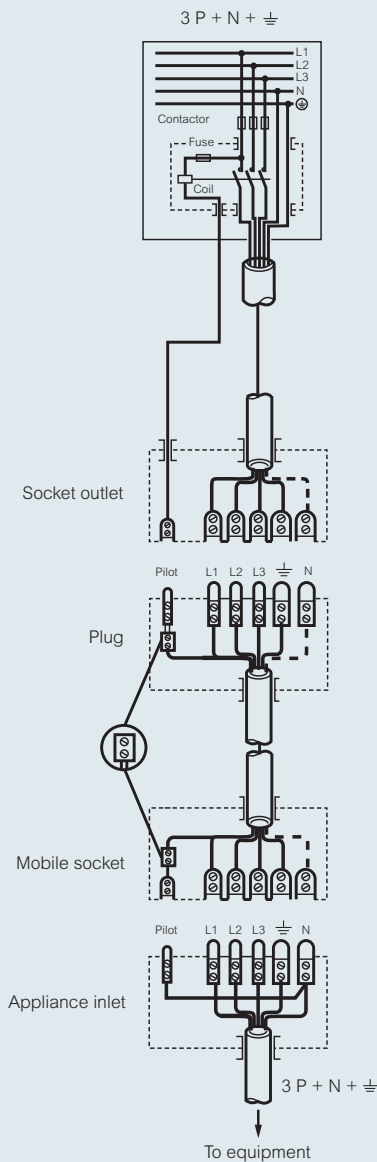
LV 63 A (p. 192)



	Weight (kg)
3 P + $\perp$	0.90
3 P + N + $\perp$	0.95

■ Example of 63 A 3 P + $\perp$ and 3 P + N + $\perp$ 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

Hyptra® and P17® combination units...

safe, secure connections

Hyptra®

Tough and durable units which are available with Hyptra Prisinter or panel mounting sockets.

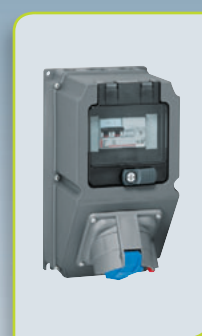
- **Lockable transparent window** - for security and instant monitoring of protection device status
- **Captive, stainless steel external screws** - for added durability
- **Off load connection and disconnection on Prisinter equipped versions** - providing additional safety for users and circuits alike
- **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



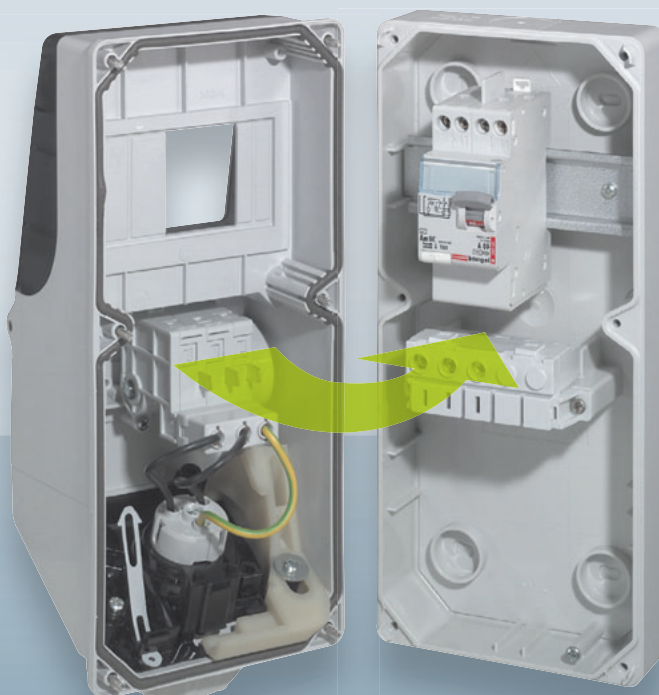
Self assembly units



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

Pack	Cat. Nos.		Single socket units with switch
	16 A	32 A	Double mechanical interlock
1	0592 00		200 to 250 V~ 2 P + ⊥
1	0592 03	0592 43	200 to 250 V~ 2 P + ⊥
1	0592 09	0592 49	380 to 415 V~ 3 P + ⊥
1	0592 16	0592 56	380 to 415 V~ 3 P + N + ⊥
	63 A		380 to 415 V~ 3 P + ⊥
1	0592 34		380 to 415 V~ 3 P + N + ⊥
1	0592 35		

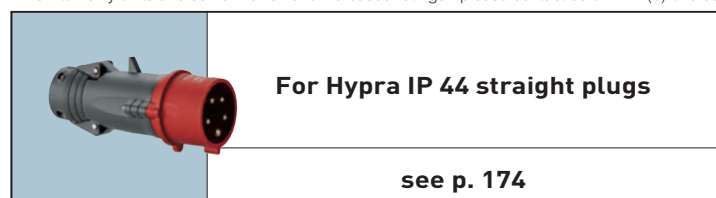
Pack	Cat. Nos.		Single socket units protected by 30 mA RCBO
	16 A	32 A	Transparent plastic hinged viewing window Supplied complete with 16/32 A 30 mA RCBO With 5 module DIN rail
1	0592 07	0592 47	200 to 250 V~ with RCBO 2 P + ⊥
1	0592 14		380 to 415 V~ with RCBO 3 P + ⊥
1	0592 19	0592 59	380 to 415 V~ with RCBO 3 P + N + ⊥

Pack	Cat. Nos.		Single socket units with switch and protected by 30 mA RCBO
	16 A	32 A	Transparent plastic hinged viewing window Supplied complete with 16/32 A 30 mA RCBO With 6 module DIN rail
1	0596 01	0596 05	200 to 250 V~ with RCBO 2 P + ⊥
1	0596 02	0596 07	380 to 415 V~ with RCBO 3 P + ⊥
1	0596 03	0596 08	380 to 415 V~ with RCBO 3 P + N + ⊥

Pack	Cat. Nos.		Single socket units with switch and protected by RCD
	63 A		Transparent plastic hinged viewing window Supplied complete with RCD With 6 module DIN rail
1	0592 83		380 to 415 V~ 3 P + ⊥ with MCB + RCD add-on module
1	0592 84		380 to 415 V~ 3 P + N + ⊥ with RCD

Pack	Cat. Nos.		Prisinter single socket units protected by 30 mA RCBO
	16 A	32 A	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
1	0592 24		200 to 250 V~ 2 P + ⊥
1	0592 25	0592 28	380 to 415 V~ 3 P + ⊥
1	0592 26	0592 29	380 to 415 V~ 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



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⁾

Pack	Cat. Nos.		Single socket units with switch
	16 A	32 A	Double mechanical interlock
1	0592 60	0592 63	200 to 250 V~ 2 P + ⊥
			380 to 415 V~ 3 P + ⊥
1	0592 61	0592 64	3 P + N + ⊥
1	0592 62	0592 65	380 to 415 V~ 3 P + N + ⊥
	63 A		380 to 415 V~ 3 P + ⊥
1	0592 66		3 P + N + ⊥
1	0592 67		380 to 415 V~ 3 P + ⊥
	125 A		3 P + N + ⊥
1	0591 14 ⁽²⁾		
1	0591 15 ⁽²⁾		

Pack	Cat. Nos.		Single socket units with 1 rail only, or complete with MCB 16/32 A
	16 A	32 A	Transparent plastic hinged viewing window Cable glands are not supplied (ISO) With 6 module DIN rail
1	0596 60		100 to 130 V~ 1 rail only 2 P + ⊥
1	0596 61		200 to 250 V~ with MCB 2 P + ⊥
			380 to 415 V~ with MCB 3 P + ⊥
1		0596 67	3 P + N + ⊥
1		0596 68	

Pack	Cat. Nos.		Single socket units with switch and protected by 30 mA RCBO or RCD
	16 A	32 A	Transparent plastic hinged viewing window Cable glands are not supplied (ISO) With 6 module DIN rail
1	0596 51	0596 55	200 to 250 V~ with RCBO 2 P + ⊥
			380 to 415 V~ with RCBO 3 P + ⊥
1	0596 52	0596 57	3 P + N + ⊥
1	0596 53	0596 58	
	63 A		380 to 415 V~ with RCD 3 P + N + ⊥
1	0596 81		

(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

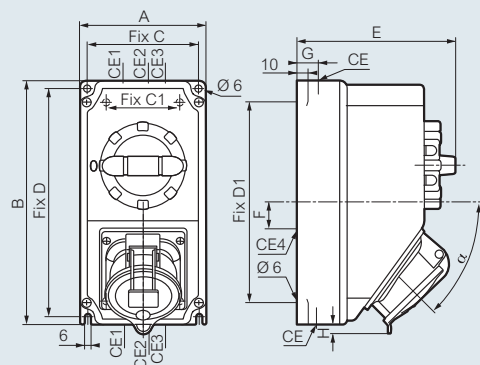
IP 44 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262 and IEC 62262
External screws in stainless steel - Nickel plated contacts
Icc 10 kA conforms to BS EN 60309-1 and IEC 60309-1
Self-extinguishing : 850 °C for insulated parts (650 °C for housing)
according to BS EN 60695-1, BS EN 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 :

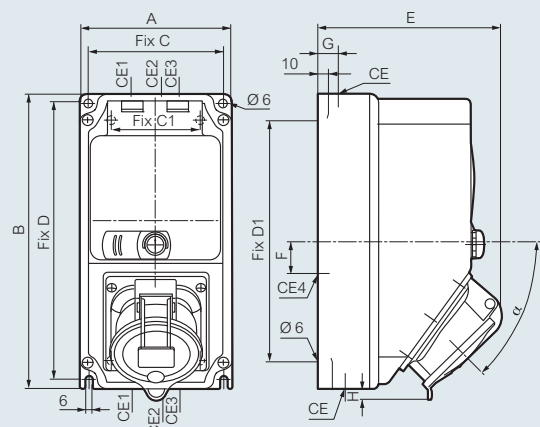
	16 A	32 A	63 A
AC1	16 A - 400 V~	32 A - 400 V~	63 A - 400 V~
AC3	8.4 kW	16.8 kW	33 kW
AC23	8.4 kW	16.8 kW	33 kW

Single socket units with switch (p. 196)



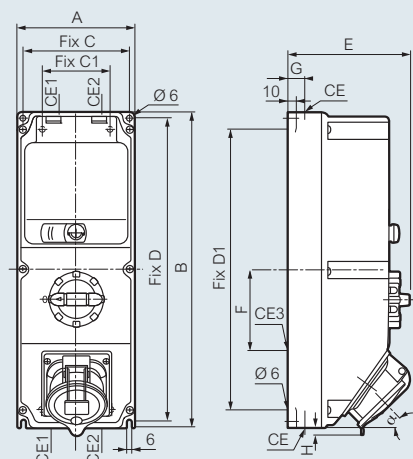
		Cat. Nos.			Dimensions (mm)											Knock-out entries for cable gland			
		110 to 130 V~	200 to 250 V~	380 to 415 V~	A	B	C	D	C1	D1	E	F	G	H	α	CE1	CE2	CE3	CE4
16 A	2P+⊥	0592 00	0592 03		120	230	106	216	70	190	151	25	20	0	46°	M 20/25	-	M 20/25	Ø 29
	3P+⊥		0592 09											0					
	3P+N+⊥		0592 16											1-5					
32 A	2P+⊥		0592 43		170	320	156	306	100	270	204	65	28	9	56°	M 20/25	-	M 20/25	Ø 29
	3P+⊥		0592 49											9					
	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
	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.		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 07		120	230	106	216	70	190	132			0	46°	M 20/25	-	M 20/25	Ø 29
	3P+⊥		0592 14							134			0					
	3P+N+⊥		0592 19							138	25	20	1-5					
32 A	2P+⊥	0592 47		170	320	156	306	100	270	145			9	56°	M 20/25	-	M 20/25	Ø 29
	3P+⊥		0592 59							148			10					
	3P+N+⊥		0592 59															
Prisinter 16 A	2P+⊥	0592 24		170	320	156	306	100	270	195			0	56°	M 20/25	M 25/32	M 20	Ø 38
	3P+⊥		0592 25							195	65	28	0					
	3P+N+⊥		0592 26							202			0					
	3P+⊥		0592 28							206	65	28	0					
32 A	3P+⊥		0592 28	170	320	156	306	100	270	214			0	56°	M 20/25	M 25/32	M 20	Ø 38
	3P+N+⊥		0592 29										0					

Single socket units with switch and protected by 30 mA RCBO or RCD (p. 196)



		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
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
	3P+⏚		0596 02										0				
	3P+N+⏚		0596 03										1-5				
32 A	2P+⏚	0596 05		160	470	146	456	90	420	204	125	28	9	56°	M 25/32	M 20/25	Ø 38
	3P+⏚		0596 07										9				
	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
	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

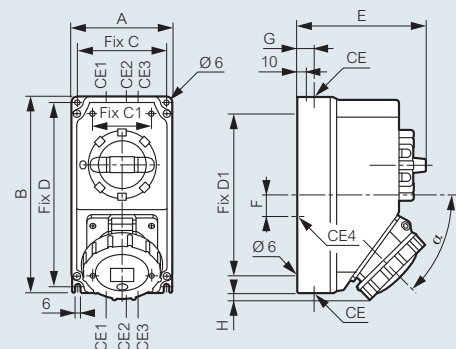
Caution : a residual current device (RCD) does not provide protection against overloads and short circuits

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)

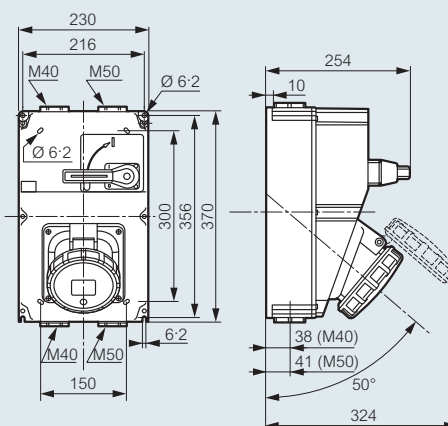


		Cat. Nos.		Dimensions (mm)											Knock-out entries for cable gland				
		200 to 250 V~	380 to 415 V~	A	B	C	D	C1	D1	E	F	G	H	α	CE1	CE2	CE3	CE4	
16 A	2P+⌵	0592 60		120	230	106	216	70	190	151	25	20	2	46°	M20/ M25	—	M20/ M25	M25/ Ø 29	
	3P+⌵		0592 61							151									0
	3P+N+⌵		0592 62							151									8
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	

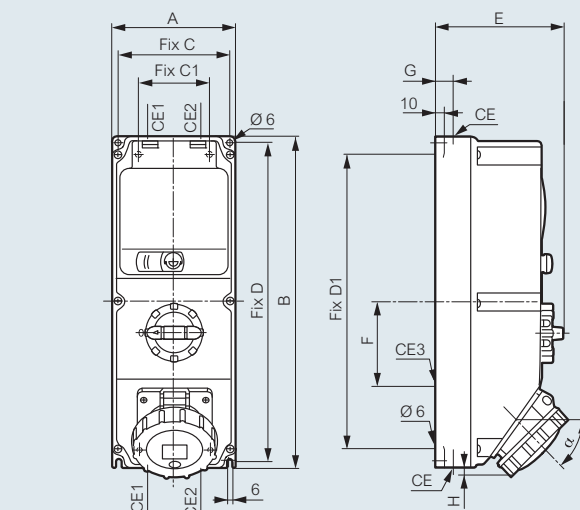
■ Single socket units with switch (continued) (p. 197)

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+⏏	0596 60	0596 61/51								151			0				
	3P+⏏		0596 52								151			0				
	3P+N+⏏		0596 53	140	370	126	356	74	330	151	95	20	2	46°	M20/M25	M20/M25	M25/Ø29	
32 A	2P+⏏		0596 55								152			8				
	3P+⏏		0596 67/57								152			8				
	3P+N+⏏		0596 68/58								156			12				
63 A	3P+N+⏏		0596 81	160	470	146	456	90	420	204	125	28	17	56°	M25/M32	M25/M32	M25/M38/Ø38	

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

IP 44



IP 55



With DIN rail 125 x 280 mm

IP 44



With 5 module DIN rail

IP 66



With 5 module DIN rail

Pack

Cat. Nos.

Pack

Cat. Nos.

Pack

Cat. Nos.

Pack

Cat. Nos.

LV

100 to 130 V 50/60 Hz	16 A	2 P + $\downarrow$	1	0566 00	1	0566 20	1	0566 40	1	—
200 to 250 V 50/60 Hz	16 A	2 P + $\downarrow$	1	0566 01	1	0566 21	1	0566 41	1	0566 61
	32 A	2 P + $\downarrow$	1	0566 09	1	0566 29	1	0566 49	1	0566 69
380 to 415 V 50/60 Hz	16 A	3 P + $\downarrow$	1	0566 05	1	0566 25	1	0566 45	1	0566 65
		3 P + N + $\downarrow$	1	0566 06	1	0566 26	1	0566 46	1	0566 66
	32 A	3 P + $\downarrow$	1	0566 13	1	0566 33	1	0566 53	1	0566 73
		3 P + N + $\downarrow$	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

IP 66



With DIN rail 125 x 501 mm

IP 66



With 5 module DIN rail

Pack

Cat. Nos.

Pack

Cat. Nos.

LV

380 to 415 V 50/60 Hz	63 A	3 P + N + $\downarrow$	1	0589 10	1	0572 99
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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

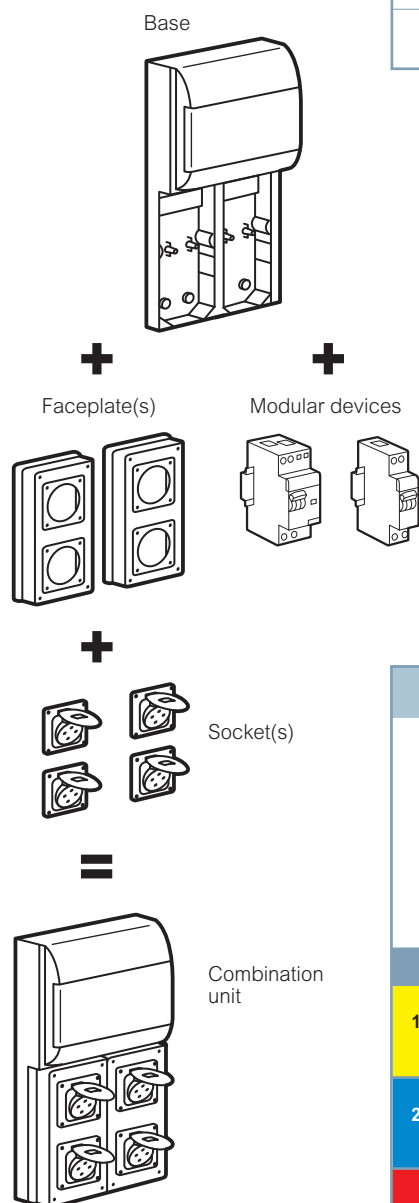
IK 08 according to BS EN 62262 and IEC 62262

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 + $\perp$	10	0576 10
	32 A	2 P + $\perp$	10	0576 08
200 to 250 V 50/60 Hz	16 A	2 P + $\perp$	10	0576 11
	32 A	2 P + $\perp$	10	0576 12
380 to 415 V 50/60 Hz	16 A	3 P + $\perp$	10	0576 17
		3 P + N + $\perp$	10	0576 23
	32 A	3 P + $\perp$	10	0576 18
		3 P + N + $\perp$	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

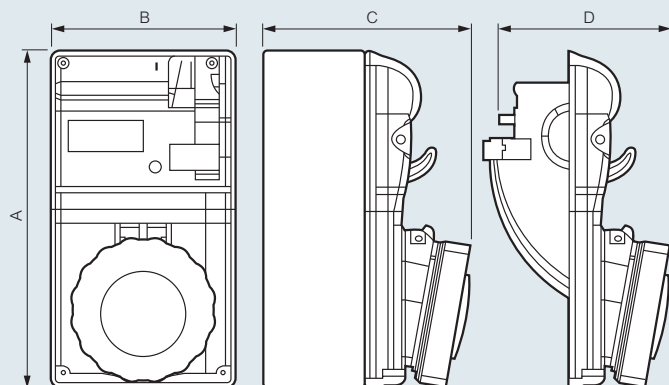
IP 44, IP 55, IP 66 according to BS EN 60529 and IEC 60529

IK 08 according to BS EN 62262 and IEC 62262

Switch ratings (p. 203)

Interlocked switched sockets without protection - IP 44/IP 55

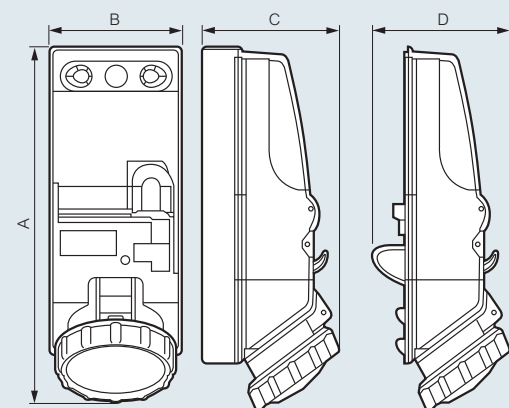
LV 16/32 A (p. 200)



		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)

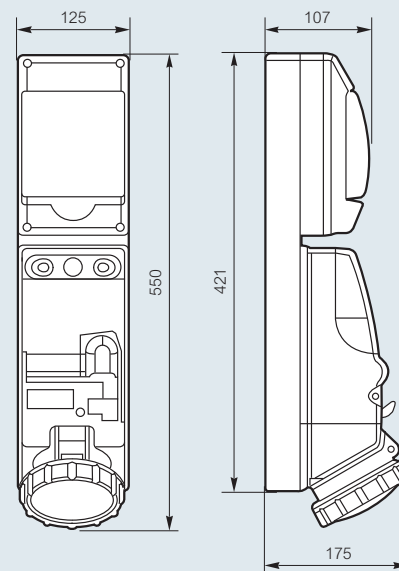


		IP 44 Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	IP 66 Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)
LV 16 A	2 P+ ⊥	0566 40/41	290	125	155	135	0566 61	300	125	155	135
	3 P+ ⊥	0566 45	290	125	155	135	0566 65	300	125	155	135
	3 P+N+⊥	0566 46	290	125	155	135	0566 66	300	125	155	135
LV 32 A	2 P+ ⊥	0566 49	295	125	155	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



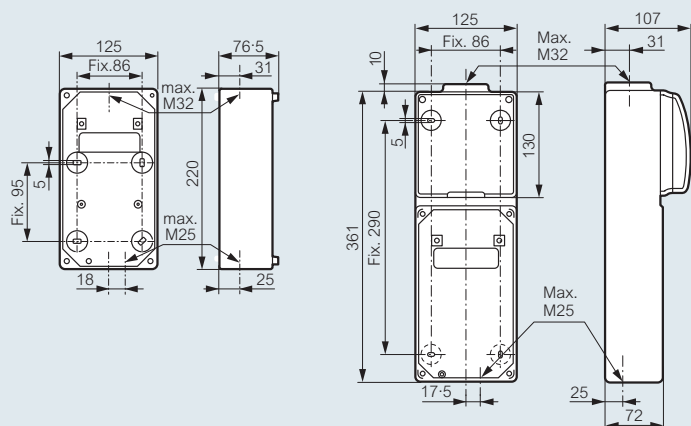
P 17 Tempra® IP 44 self assembly combination units - LV 16/32 A

plastic surface mounting

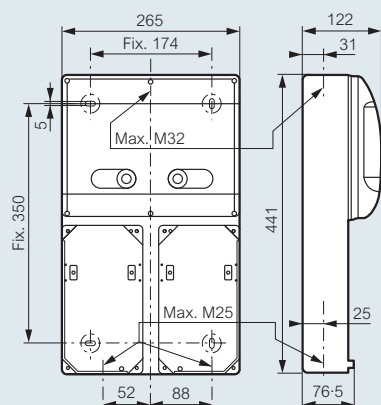
■ Box and bases without DIN rail (p. 201)

Box Cat. No. 0577 10

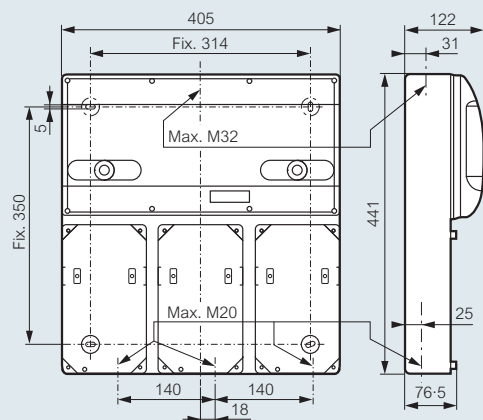
Base Cat. No. 0589 38



Base Cat. No. 0577 05



Base Cat. No. 0577 06

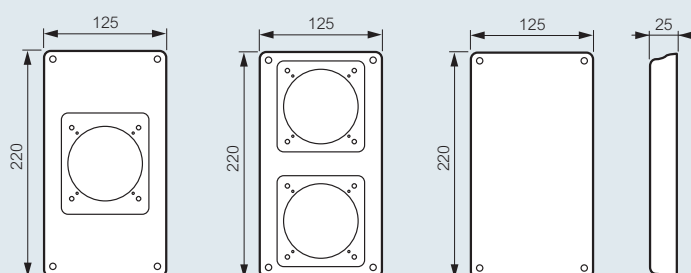


■ Faceplates modular fixing centre sockets (p. 201)

Cat. No. 0577 12

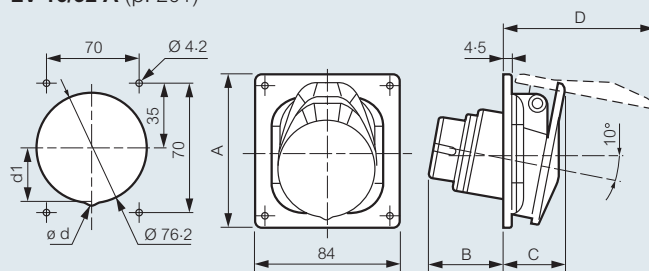
Cat. No. 0577 13

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 + $\frac{1}{2}$	0576 10/11	Plastic	0-110	84	42	33	83.5	-
	3 P + $\frac{1}{2}$	0576 17	Plastic	0-140	84	43	34.5	91.3	-
	3 P + N + $\frac{1}{2}$	0576 23	Plastic	0-165	84	43	36.5	100	-
32 A	2 P + $\frac{1}{2}$	0576 08/12	Plastic	0-220	94	54	44	112	-
	3 P + $\frac{1}{2}$	0576 18	Plastic	0-220	94	54	44	112	-
	3 P + N + $\frac{1}{2}$	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

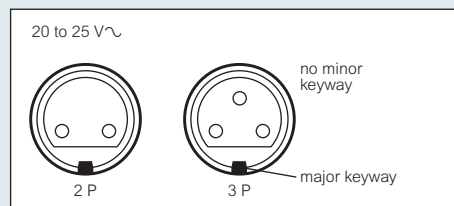
■ With Legrand Hypra and P 17 Tempra industrial plugs and sockets, your installations will comply fully with international standards :

- 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

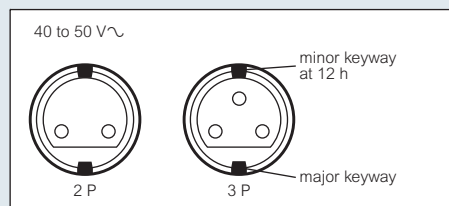
These safety regulations, together with the requirements of standard BS EN 60309-1, define the safety conditions necessary for normal operation. It is prudent to go one step further and insist on equipment which ensures the safety of the persons as a priority as well as ease of operation. Many manufacturers therefore use sockets which incorporate a switch, to avoid on-load disconnection (eg : Hypra Prisinter).

ELV by position of the minor keyway

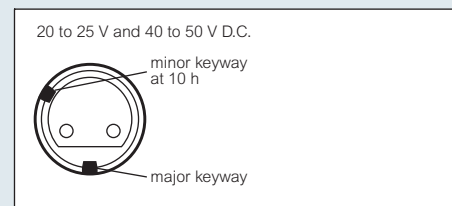
24 V~ 50 – 60 Hz Violet



42 V~ 50 – 60 Hz White

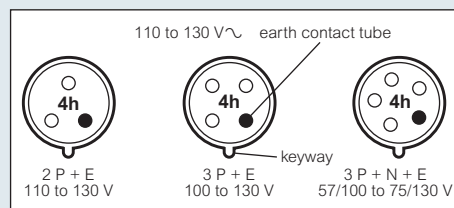


42 V= White

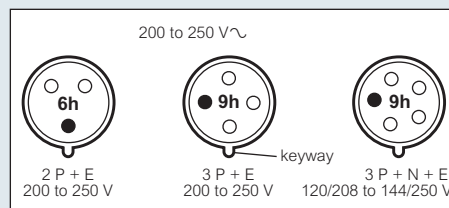


LV by the position of the earth contact tube in relation to the major keyway in the socket outlets

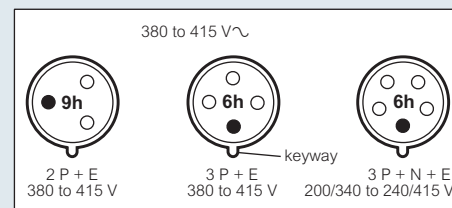
110 V~ 50 – 60 Hz Yellow



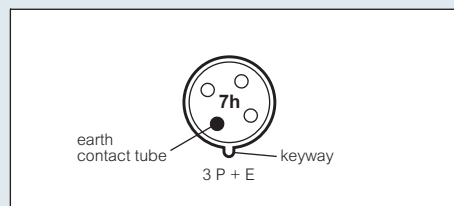
230 V~ 50 – 60 Hz Blue



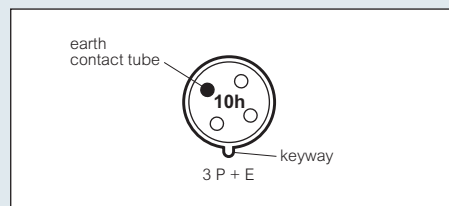
400 V~ 50 – 60 Hz Red



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) 1 x 2.5 mm (B)
LV 32 A	1 x 10 mm (A) 1 x 6 mm (B)
LV 63 A	1 x 25 mm (A) 1 x 16 mm (B)
LV 125 A	1 x 70 mm (A) 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~ 42 V~ 42 V=	Phase	6	6	–	–
110 V~ 230 V~ 400 V~ 440 V~ 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

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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0010 00		0044 17	26	0048 40	42	0066 40	79	0068 45	79	0079 00	84	0091 49	83	0143 10	91
		32	116	42	-	41	-	46	-	01	-	50	-	16	-
0013 01	35	33	-	44	-	42	-	52	-	11	-	58	-	20	-
02	-	36	-	46	-	45	-	53	-	19	-	59	-	25	-
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62	-	21	-	40	-	06	-	33	-	43	-	0530 06	182	45	-
63	-	22	-	41	-	09	-	34	-	44	-	10	-	46	-
64	-	23	-	42	-	10	-	35	-	49	168	11	-	49	-
66	-	24	-	43	-	15	-	36	-	59	-	46	-	53	-
67	-	25	-	44	-	16	-	37	-	73	175	50	-	54	-
68	-	26	-	45	-	19	-	38	-	82	-	51	-	61	-
69	-	27	-	46	-	20	-	39	-	83	-	56	-	65	-
70	-	28	-	47	-	21	-	40	-	89	-	60	-	66	-
71	-	29	-	48	-	96	140	61	-	0521 01	181	61	-	69	-
87	-	30	-	49	-	97	-					76	-	73	-

Obsolete items cross-reference tables

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	0	n/a	-
300 x 300 x 150	n/a	-	0399 31	14
300 x 300 x 160	0355 05	0	n/a	-
300 x 300 x 200	0355 30	0	0399 32	14
300 x 400 x 200	0355 01	0	0399 33	14
400 x 300 x 150	n/a	-	0399 34	14
400 x 300 x 160	0355 09	0	n/a	-
400 x 300 x 200	0355 02	0	0399 35	14
400 x 400 x 200	0355 31	0	0399 36	14
400 x 600 x 250	0355 06	0	0399 37	14
500 x 400 x 150	n/a	-	0399 38	14
500 x 400 x 200	0355 03	0	0399 39	14
500 x 400 x 250	0355 07	0	0399 40	14
500 x 500 x 250	0355 32	0	0399 41	14
600 x 400 x 200	0355 04	0	0399 42	14
600 x 400 x 250	0355 08	0	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	0	0399 46	14
600 x 600 x 300	0355 20	0	n/a	-
600 x 600 x 400	0355 36	0	n/a	-
600 x 800 x 300	0355 21	0	n/a	-
600 x 1000 x 300	0355 37	0	n/a	-
700 x 500 x 200	n/a	-	0399 51	14
700 x 500 x 250	0355 12	0	0399 52	14
700 x 500 x 300	0355 22	0	n/a	-
800 x 600 x 200	n/a	-	0399 54	14
800 x 600 x 250	0355 14	0	0399 55	14
800 x 600 x 300	0355 23	0	0399 56	14
800 x 600 x 400	0355 28	0	n/a	-
800 x 800 x 250	0355 15	0	n/a	-
800 x 800 x 300	0355 24	0	0399 59	14
800 x 1000 x 250	0355 33	0	n/a	-
800 x 1000 x 300	0355 34	0	n/a	-
1000 x 600 x 250	0355 17	0	n/a	-
1000 x 600 x 300	0355 26	0	0399 63	14
1000 x 800 x 250	0355 18	0	0399 64	14
1000 x 800 x 300	0355 27	0	0399 65	14
1000 x 800 x 400	0355 29	0	n/a	-
1000 x 1000 x 300	0355 91	0	n/a	-
1000 x 1200 x 300	0355 90	0	n/a	-
1200 x 800 x 300	0355 92	0	0399 69	14
1200 x 800 x 400	0355 96	0	n/a	-
1200 x 1000 x 300	0355 93	0	n/a	-
1200 x 1200 x 300	0355 94	0	n/a	-
1200 x 1200 x 400	0355 97	0	n/a	-
1400 x 800 x 400	0355 98	0	n/a	-
1400 x 1000 x 300	0355 95	0	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	AlphaRex ³ D21 230 V	120
0047 71	AlphaRex D22 230V	P	4126 41	AlphaRex ³ 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	AlphaRex ³ Astro D21 230 V	120
0047 67	AlphaRex Astro D22 230 V	P	4126 57	AlphaRex ³ 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

Cat. Nos.	Page No.	Cat. Nos.	Page No.	Cat. Nos.	Page No.	Cat. Nos.	Page No.
0566 74	200	0592 60	197	4130 91	116	6071 67	58
0572 99	200	61	-	93	-	68	-
0573 51	189	62	-	95	-	69	-
54	-	63	-	96	-	70	59
58	-	64	-	97	-	72	-
59	-	65	-	98	-	75	-
0574 31	189	66	-	6000 00		76	-
34	-	67	-			80	-
38	-	83	196			81	-
39	-	84	-			82	-
0575 11	189	0594 27	182	76	-	83	58
14	-	28	-	78	-	6072 00	59
18	-	37	-	81	-	01	-
19	-	38	-	82	-	02	-
81	-	47	-	83	-	03	-
84	-	48	-	85	-	04	-
88	-	87	-	86	-	05	-
89	-	88	-	87	-	06	-
0576 08	189	0595 02	182	88	-	10	58
10	-	03	-	6022 51	61	11	-
11	-	12	-	52	-	12	-
12	-	13	-	53	-	13	-
17	-	22	-	54	-	14	-
18	-	23	-	6027 10	83	15	-
23	-	32	-	11	-	16	-
24	-	33	-	6037 70	123	17	-
0577 05	201	0596 01	196	71	-	18	-
06	-	02	-	6064 10	84	6360 95	50
10	-	03	-	11	-	96	-
12	-	05	-	12	-	6361 00	50
13	-	07	-	13	-	01	-
15	-	08	-	14	-	02	-
0580 54	189	51	197	15	-	03	-
59	-	52	-	6071 00	58	05	-
0581 21	189	53	-	01	-	06	-
34	-	55	-	02	-	07	-
38	-	57	-	03	-	08	-
39	-	58	-	04	-	09	-
0582 01	189	60	-	05	-	11	-
14	-	61	-	06	-	12	-
18	-	67	-	07	-	13	-
19	-	68	-	08	-	14	-
84	-	81	-	09	-	15	-
89	-	0900 00		10	-	16	-
0587 00	192			11	-	17	-
04	-			12	-	18	-
05	-			13	-	19	-
10	-	0921 00	37	14	-	20	-
14	-	01	-	15	-	21	-
15	-	04	-	16	-	22	-
40	-	22	40	17	-	23	-
44	-	26	37	18	-	25	-
45	-	27	-	19	-	90	-
0589 10	200	28	38	20	59	95	-
38	201	36	37	21	-	6362 02	50
0591 14	197	37	-	22	-	07	-
15	-	38	38	23	-	12	-
0592 00	196	0922 84	40	30	-	13	-
03	-	0980 03	33	31	-	17	-
07	-	4000 00		50	58	25	-
09	-			51	-	93	-
14	-			52	-	94	-
16	-			53	-	6423 62	108
19	-	31	120	54	-	63	-
24	-	41	-	55	-	64	-
25	-	54	-	56	-	65	-
26	-	57	-	57	-	66	-
28	-	4127 80	125	58	-	68	-
29	-	90	-	59	-	-	-
34	-	94	-	60	-	-	-
35	-	95	-	61	-	-	-
43	-	4128 12	125	62	-	-	-
47	-	13	-	63	-	-	-
49	-	72	120	64	-	-	-
56	-	73	-	65	-	-	-
59	-	4130 90	116	66	-	-	-

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