Low Voltage Switches

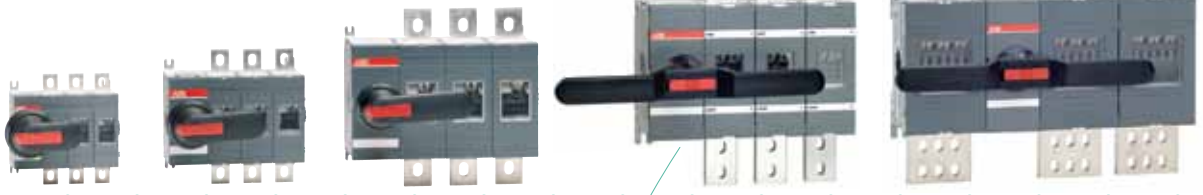
# Switches
# Switch-disconnectors

Power and productivity
for a better world™

# Switch-disconnector

## IEC

| | OT16F<br>OT25F<br>OT40F | OT63F<br>OT80F | OT100F<br>OT125F | OT160E |
|---|---|---|---|---|
| Ith /A | 25 32 40 | 63 80 | 115 125 | 200 |
| Ie /AC22A, ≤ 415V | 16 25 40 | 63 80 | 100 125 | 160 |
| Ie /AC23A, ≤ 415V | 16 20 23 | 45 75 | 80 90 | 135 |



| | OT200E<br>OT250E | OT315E<br>OT400E | OT630E<br>OT800E | OT1000_<br>OT1250_<br>OT1600_ | OT2000_<br>OT2500_ |
|---|---|---|---|---|---|
| Ith /A | 200 250 | 315 400 | 630 800 | 1000 1250 1600 | 2000 2500 |
| Ie /AC22A, ≤ 415V | 200 250 | 315 400 | 630 800 | 1000 1250 1600 | 2000 2500 |
| Ie /AC23A, ≤ 415V | 200 250 | 315 400 | 630 800 | 1000 1250 1250 | |

## UL / CSA

| | OT16F<br>OT25F<br>OT40F | OT63F<br>OT80F | OT30F<br>OT60F<br>OT100F | OT160E |
|---|---|---|---|---|
| Ampere rating/A | 20 30 40 | 60 80 | 30 60 100 | 100 |

| | OT200U | OT400U | OT600U | OT800U<br>OT1200U |
|---|---|---|---|---|
| Ampere rating/A | 200 | 400 | 600 | 800 1200 |

## Accessories

- Optional handles
- Extended shafts
- Legend plates
- Auxiliary contacts
- Fourth poles
- N & PE terminals
- Terminal shrouds
- Connecting accessories
- Conversion kits
- Locking accessories
- Motor operators

S 16...3150 A

# Switch-disconnectors

OT 16...2500
OETL 3150

OETL3150K

3150

OETL-NF1600
OETL-NF2000

1600 2000

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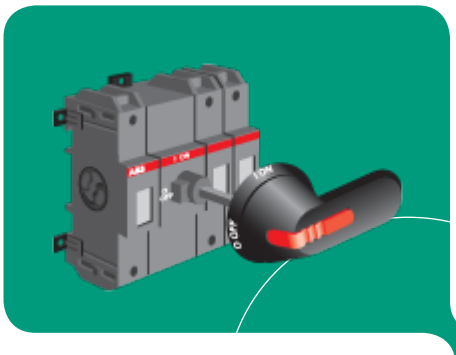
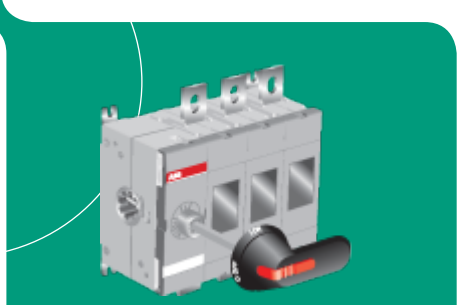
# Enhanced range of switch-disconnectors

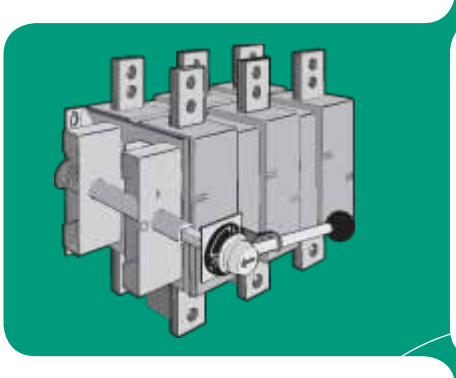
## From 16 to 3150 A, 690 V

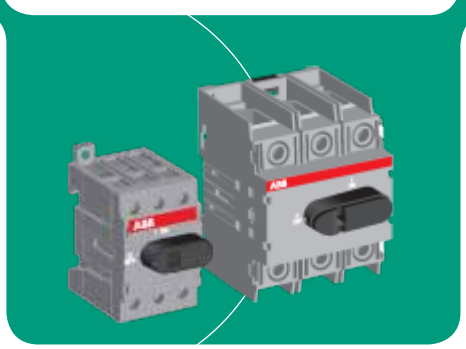
The switch-disconnectors are suitable for diverse applications, in motor control centers, in switchboards and as main switches in various equipment and machines. From single to 8-poles front operated switches with pistol handle or direct mounted handle. For installation in enclosures, side operated switches, switches with wide phase distance and combination switches for change-over, bypass, reversing etc.

- Mountable on DIN rails or base plates and on the door, both by snap-on and screw fitting
- Snap-on mounting of accessories







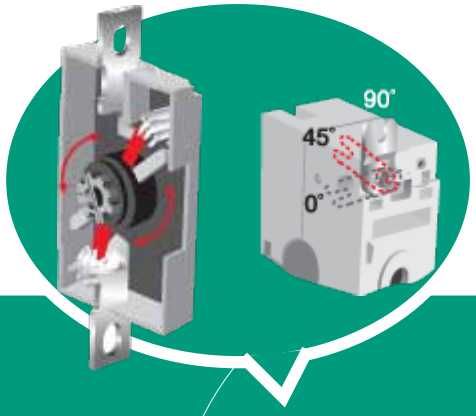


# The most compact disconnect (isolation) solution

Optimally designed, the OT switch-disconnector offers an advanced and compact solution, providing you with added value.

- The new double-sided spring construction in combination with fewer components made an innovative and compact design of the operation mechanism possible.
- The uniquely short current path enabled a small-sized contact construction.

# High performance despite the small size




The powerful new construction, with its quick-make and quick-break operation features and two contact points instead of one, adds value to and enhances the performance of the switch-disconnectors.

- The OT range offers you improved power ratings, the highest on the market. Full $I_{th}$ ratings can be used both in open air and in enclosures, without having to derate or enlarge the box.
- User-friendly and flexible,the OT switch-disconnector provides you with full AC-23A current ratings for all the voltages, even up to 690 V.

The OT switch-disconnector is easy to use and a snap to install according to your choice: horizontally or vertically - even in the ceiling! The adjustable mounting feet allow both top and side mounting of the switch.

ABB's switch-disconnector range meets disconnect and isolation requirements more effectively than ever, maximizing the benefits and optimizing your use of assets.

## Technical data according to IEC 60947-3

| | | Size<br>Switch type | A | 16<br>OT16_ | 25<br>OT25_ |
|---|---|---|---|---|---|
| Rated insulation voltage and rated operational voltage AC20/DC20 | Pollution degree 3 | | V | 750 | 750 |
| Dielectric strength | | 50 Hz 1min. | kV | 6 | 6 |
| Rated impulse withstand voltage | | | kV | 8 | 8 |
| Rated thermal current and rated operational current AC20/DC20 | ambient 40°C[3] | In open air | A | 25 | 32 |
| | ambient 40°C[3] | In enclosure | A | 25 | 32 |
| | ambient 60°C | In enclosure | A | 20 | 25 |
| ..with minimum conductor cross section | | Cu | $mm^2$ | 4 | 6 |
| Rated operational current, AC-21A | | up to 415 V | A | 16 | 25 |
| | | 440 - 690 V | A | 16 | 25 |
| Rated operational current, AC-22A | | up to 415 V | A | 16 | 25 |
| | | 440 - 500 V | A | 16 | 25 |
| | | 690 V | A | 16 | 25 |
| Rated operational current, AC-23A | | up to 415 V | A | 16 | 20 |
| | | 440 V | A | 16 | 20 |
| | | 500 V | A | 16 | 20 |
| | | 690 V | A | 10 | 11 |
| Rated operational current / poles in series, DC-21A | | 24 - 48 V[1] | A | 16/1 | 25/1 |
| | | 110 V | A | 16/2 | 25/2 |
| | | 220 V | A | 16/3 | 25/3 |
| | | 440 V | A | 16/4 | 16/4 |
| | | 500 V | A | 16/4 | 16/4 |
| | | 750 V | A | 16/8 | 25/8 |
| Rated operational current / poles in series, DC-22A | | 24 - 48 V[1] | A | 16/1 | 25/1 |
| | | 110 V | A | 16/2 | 25/2 |
| | | 220 V | A | 16/3 | 25/3 |
| | | 440 V | A | 10/4 | 10/4 |
| | | 750 V | A | 16/8 | 25/8 |
| Rated operational current / poles in series, DC-23A | | 24 - 48 V[1] | A | 16/1 | 25/1 |
| | | 110 V | A | 16/2 | 25/2 |
| | | 220 V | A | 16/4 | 25/4 |
| | | 440 V | A | 10/4 | 10/4 |
| | | 750 V | A | 16/8 | 16/8 |
| Rated operational power, AC-23A | | 220-240 V | kW | 3 | 4 |
| (These values are given | | 400-415 V | kW | 7.5 | 9 |
| for guidance and may vary | | 440 V | kW | 7.5 | 9 |
| acc. to the motor manufacturer) | | 500 V | kW | 7.5 | 9 |
| | | 690 V | kW | 7.5 | 9 |
| Rated breaking capacity, AC-23A | | up to 415 V | A | 128 | 160 |
| | | 440 V | A | 128 | 160 |
| | | 500 V | A | 128 | 160 |
| | | 690 V | A | 80 | 88 |
| Rated breaking capacity/poles in series, DC-23A | | 24 - 48 V | A | 64/1 | 100/1 |
| | | 110 V | A | 64/2 | 100/2 |
| | | 220 V | A | 64/3 | 100/4 |
| | | 440 V | A | 40/4 | 40/4 |
| | | 750 V | A | 64/8 | 64/8 |
| Rated conditional short-circuit current $I_p$ (r.m.s.) and corresponding max. allowed cut-off current $\hat{i}_c$ | $I_p$ (r.m.s.) | 50 kA | kA | 6.5 | 6.5 |
| | Max. OFA_ fuse size gG/aM | ≤ 415 V | A | 40/32 | 40/32 |
| | $I_p$ (r.m.s.) | 100 kA | kA | | |
| | Max. OFA_ fuse size gG/aM | ≤ 500 V | A | | |
| The cut-off current $\hat{i}_c$ refers to values listed by fuse manufacturers | $I_p$ (r.m.s.) | 10 kA | kA | | |
| | Max. OFA_ fuse size gG/aM | ≤ 690 V | A | | |
| (single phase test acc. to IEC60269) | $I_p$ (r.m.s.) | 50 kA | kA | 4 | 4 |
| | Max. OFA_ fuse size gG/aM | ≤ 690 V | A | 25/16 | 25/16 |
| Rated short-time withstand current | r.m.s. -value $I_{cw}$ | 690V, 0.25 s | kA | | |
| | r.m.s. -value $I_{cw}$ | 690V, 1s | kA | 0.5 | 0.5 |
| Rated short circuit making capacity | Peak value $I_{cm}$ | 690V/500V | kA | 0.705 | 0.705 |
| Rated capacitor power (The capacitor ratings are limited by the fuse link.) | | 400 - 415 V | kVAr | 6.5 | 10 |
| Power loss / pole | At rated operational current | | W | 0.3 | 0.6 |
| Mechanical endurance | Divide by two for operation cycles | | Oper. | 20 000 | 20 000 |
| Weight without accessories | 3-pole | | kg | 0.11 | 0.11 |
| | 4-pole | | kg | 0.15 | 0.15 |
| Cable size | Cu-wire size suitable for terminal clamps | | $mm^2$ | 0.75-10 | 0.75-10 |
| | | | AWG | 18-8 | 18-8 |
| Terminal tightening torque | Counter torque required | | Nm | 0.8 | 0.8 |
| Operating torque | 3-pole switch-disconnector | | Nm | 1 | 1 |

**[1] Below 48 V, two poles in parallel up to OT 80 are recommended particularly in polluted atmosphere**
**[2] 200A/min. 95 $mm^2$, use busbar connections OEZXX6/13 or OZXT2**
**[3] Acc. to IEC 60947-1, § 6.1.1.**

| 40<br>OT40_ | 63<br>OT63_ | 80<br>OT80_ | 100<br>OT100_ | 125<br>OT125_ | 160<br>OT160_ |
|---|---|---|---|---|---|
| 750<br>6<br>8 | 750<br>6<br>8 | 750<br>6<br>8 | 750<br>6<br>8 | 750<br>6<br>8 | 750<br>10<br>12 |
| 40<br>40<br>32<br>10 | 63<br>63<br>50<br>16 | 80<br>80<br>63<br>25 | 115<br>115<br>80<br>35 | 125<br>125<br>100<br>50 | 200<br>160<br>125<br>70 |
| 40<br>40 | 63<br>63 | 80<br>80 | 100<br>100 | 125<br>125 | 200[2)]<br>160 |
| 40<br>40<br>40 | 63<br>63<br>63 | 80<br>80<br>80 | 100<br>100<br>100 | 125<br>125<br>125 | 200[2)]<br>160<br>160 |
| 23<br>23<br>23<br>12 | 63<br>63<br>45<br>20 | 75<br>65<br>58<br>20 | 80<br>65<br>60<br>40 | 90<br>78<br>70<br>50 | 135<br>125<br>125<br>80 |
| 32/1<br>32/2<br>32/3<br>16/4<br>16/4<br>32/8 | 63/1<br>63/2<br>63/4<br>16/4<br>16/4 | 80/1<br>80/2<br>80/4<br>16/4<br>16/4 | 100/1<br>100/2<br>100/4 | 125/1<br>125/2<br>125/4 | 160/1<br>160/1<br>160/2<br>160/3<br>125/3<br>160/4 |
| 32/1<br>32/2<br>32/4<br>10/4<br>25/8 | 63/1<br>63/2<br>45/4<br>10/4 | 80/1<br>80/2<br>45/4<br>10/4 | 100/1<br>100/2<br>63/4 | 125/1<br>125/2<br>80/4 | 160/1<br>160/1<br>160/2<br>160/3 |
| 32/1<br>32/2<br>32/4<br>10/4<br>16/8 | 63/1<br>63/2<br>45/4<br>10/4 | 80/1<br>80/2<br>45/4<br>10/4 | 100/1<br>100/2<br>63/4 | 125/1<br>125/2<br>63/4 | 160/1<br>160/1<br>160/2<br>160/3 |
| 5.5<br>11<br>11<br>11<br>11 | 11<br>22<br>22<br>22<br>15 | 22<br>37<br>37<br>37<br>18.5 | 22<br>37<br>37<br>37<br>37 | 22<br>45<br>45<br>45<br>45 | 45<br>75<br>75<br>75<br>75 |
| 184<br>184<br>184<br>96 | 360<br>360<br>360<br>160 | 640<br>448<br>464<br>160 | 640<br>520<br>480<br>320 | 720<br>624<br>560<br>400 | 1 080<br>1 000<br>1 000<br>640 |
| 128/1<br>128/2<br>128/4<br>40/4<br>64/8 | 180/1<br>180/2<br>180/4<br>40/4 | 252/1<br>252/2<br>180/4<br>40/4 | 400/1<br>400/2<br>252/4 | 500/1<br>500/2<br>252/4 | 640/1<br>640/1<br>640/2<br>640/3 |
| 6.5<br>40/32 | 13<br>100/80 | 13<br>100/80 | 16.5<br>125/125 | 16.5<br>125/125 | |
| | 17<br>100/80 | 17<br>100/80 | | | 30<br>200/250 |
| | | | 8.2<br>125/100 | 8.2<br>125/100 | |
| 4<br>25/16 | 11<br>80/63 | 11<br>80/63 | 10<br>63/63 | 10<br>63/63 | 24<br>200/250 |
| 0.5<br>0.705 | 1<br>1.4 | 1.5<br>2.1 | 2.5<br>3.6 | 2.5<br>3.6 | 7<br>4<br>12 |
| 15 | 25 | 30 | 40 | 50 | 65 |
| 1.6<br>20 000 | 2.8<br>20 000 | 4.5<br>20 000 | 4.0<br>20 000 | 6.3<br>20 000 | 6.5<br>20 000 |
| 0.11<br>0.15 | 0.27<br>0.35 | 0.27<br>0.35 | 0.36<br>0.50 | 0.36<br>0.50 | 1.1<br>1.3 |
| 0.75-10<br>18-8 | 1.5-35<br>14-4 | 1.5-35<br>14-4 | 10-70<br>8-00 | 10-70<br>8-00 | 10-70<br>8-00 |
| 0.8<br>1 | 2<br>1.2 | 2<br>1.2 | 6<br>2 | 6<br>2 | 6<br>6 |

## Technical data according to IEC 60947-3

| | | Size<br>Switch type | A |
|---|---|---|---|
| Rated insulation voltage and rated operational voltage AC-20, DC-20 | Pollution degree 3 | | V |
| Dielectric strength | | 50 Hz 1min. | kV |
| Rated impulse withstand voltage | | | kV |
| Rated thermal current and rated operational current AC-20, DC-20 in ambient 40 °C [4] | In open air | | A |
| | In enclosure | | A |
| ...with minimum cable cross section | | Cu | $mm^2$ |
| Rated operational current, AC-21A | | ≤ 500 V | A |
| | | 690 V | A |
| | | 1000 V | A |
| Rated operational current, AC-22A | | ≤ 500 V | A |
| | | 690 V | A |
| | | 1000 V | A |
| Rated operational current, AC-23A | | ≤ 500 V | A |
| | | 690 V | A |
| | | 1000 V | A |
| Rated operational current / poles in series, DC-21A...23A[1] | | 24 - 110 V | A |
| | | 220 V | A |
| | | 440 V | A |
| | | 660 V | A |
| Rated operational current / poles in series, DC-21B | | 800 V | A |
| | | 1000 V | A |
| Rated operational power, AC-23[3] | | 230 V | kW |
| | | 400 V | kW |
| | | 415 V | kW |
| | | 500 V | kW |
| | | 690 V | kW |
| Rated breaking capacity in category AC-23 | | ≤ 500 V | A |
| | | 690 V | A |
| Rated conditional short-circuit current $I_p$ (r.m.s.) and corresponding max. allowed cut-off current $\hat{i}_c$ | $I_p$ (r.m.s.) | 100 kA, 500 V | kA |
| | Max. OFA_ fuse size | gG/aM | A |
| The cut-off current $\hat{i}_c$ refers to values listed by fuse manufacturers (single phase test acc. to IEC60269). | $I_p$ (r.m.s.) | 80 kA, 690 V | kA |
| | Max. OFA_ fuse size | gG/aM | A |
| Rated short-time withstand current | r.m.s. value $I_{cw}$ | ≤ 1000 V 0,15s | kA |
| | | ≤ 1000 V 0,25s | kA |
| | | ≤ 1000 V 1s | kA |
| Rated short-time making capacity | Peak value $I_{cm}$ | ≤ 1000 V | kA |
| Rated capacitor power | The capacitor ratings | 415 V | kVAr |
| When no initial charge on the capacitor | are limited by | 500 V | kVAr |
| | the fuse links | 690 V | kVAr |
| Power loss / pole | With rated current | | W |
| Mechanical endurance | Divide by two for oper. cycles | | Oper. |
| Weight without accessories | 3-pole switch | | kg |
| Terminal bolt size | Metric thread diameter x length | | mm |
| Terminal tightening torque | Counter torque required | | Nm |
| Operating torque | 3-pole switch disconnector | | Nm |

**[1] Further ratings on request**
**[2] Category B**
**[3] These values are given for guidance and may vary acc. to the motor manufacturer.**
**[4] Acc. to IEC 60947-1, § 6.1.1.**

# Switch-disconnectors OT 200..800
## Technical data

| 200<br>OT200E_ | 250<br>OT250_ | 315<br>OT315_ | 400<br>OT400_ | 630<br>OT630_ | 800<br>OT800_ |
|---|---|---|---|---|---|
| 1 000<br>10<br>12 | 1 000<br>10<br>12 | 1 000<br>10<br>12 | 1 000<br>10<br>12 | 1 000<br>10<br>12 | 1 000<br>10<br>12 |
| 200<br>200<br>95 | 250<br>250<br>120 | 315<br>315<br>185 | 400<br>400<br>240 | 630<br>630<br>2x185 | 800<br>800<br>2x240 |
| 200<br>200<br>200 | 250<br>250<br>250 | 315<br>315<br>315 | 400<br>400<br>400 | 630<br>630<br>630 | 800<br>800<br>800 |
| 200<br>200<br>200 | 250<br>250<br>250 | 315<br>315<br>315 | 400<br>400<br>400 | 630<br>630<br>630 | 800<br>800<br>800 |
| 200<br>200<br>135 | 250<br>250<br>135 | 315<br>315<br>200 | 400<br>400<br>200 | 630<br>630<br>400 | 800<br>800<br>400 |
| 200/2<br>200/2<br>200/3<br>200/4 | 250/2<br>250/2<br>250/3<br>230/4[2)] | 315/1[2)]<br>315/2[2)]<br>315/3<br>315/4 | 400/1[2)]<br>400/2[2)]<br>360/3<br>360/4 | 630/1<br>630/1<br>630/2<br>630/4[2)] | 800/1<br>800/1<br>800/2<br>650/4[2)] |
| 200/5<br>200/6 | 250/5<br>250/6 | 315/5<br>315/6 | 400/5<br>400/6 | 600/5<br>600/6 | 600/5<br>600/6 |
| 60<br>110<br>110<br>132<br>200 | 75<br>140<br>145<br>170<br>250 | 100<br>160<br>180<br>220<br>315 | 132<br>220<br>230<br>280<br>400 | 200<br>355<br>355<br>400<br>630 | 250<br>450<br>450<br>560<br>800 |
| 1 600<br>1 600 | 2 000<br>2 000 | 2 520<br>2 520 | 3 200<br>3 200 | 5 040<br>5 040 | 6 400<br>6 400 |
| 40.5<br>315/315 | 40.5<br>315/315 | 61.5<br>500/450 | 61.5<br>500/450 | 90<br>800/1 000 | 90<br>800/1 000 |
| 40.5<br>355/315 | 40.5<br>355/315 | 59<br>500/500 | 59<br>500/500 | 83.5<br>800/1 000 | 83.5<br>800/1 000 |
| 15 | 15 | 31 | 31 | 38 | 38 |
| 15 | 15 | 24 | 24 | 36 | 36 |
| 8 | 8 | 15 | 15 | 20 | 20 |
| 30 | 30 | 65 | 65 | 80 | 80 |
| 100<br>120<br>160 | 115<br>135<br>190 | 145<br>175<br>250 | 180<br>215<br>325 | 250<br>300<br>450 | 310<br>375<br>550 |
| 4 | 6.5 | 6.5 | 10 | 25 | 40 |
| 20 000 | 20 000 | 16 000 | 16 000 | 10 000 | 10 000 |
| 1.2 | 1.2 | 2.2 | 2.2 | 5.2 | 5.2 |
| M8x25<br>15-22<br>7 | M8x25<br>15-22<br>7 | M10x30<br>30-44<br>16 | M10x30<br>30-44<br>16 | M12x40<br>50-75<br>27 | M12x40<br>50-75<br>27 |

## Placing options of the operating mechanism

At the end of
the switch fuse
OT_03 or 04

Between the poles
OT_12 or 22

Side operated types
OT_30 or 40
OT_03 or 04

## Technical data according to IEC 60947-3

| | | Size<br>Switch type | A |
|---|---|---|---|
| Rated insulation voltage and<br>rated operational voltage AC20/DC20<br>Dielectric strength<br>Rated impulse withstand voltage | <br>Pollution degree 3<br><br> | <br><br>50 Hz 1min.<br> | <br>V<br>kV<br>kV |
| Rated thermal current and<br>rated operational current AC20/DC20<br><br><br>..with minimum conductor cross section | <br>ambient 40°C[8)]<br>ambient 40°C[8)]<br>ambient 60°C<br>Cu | <br>In open air<br>In enclosure<br>In enclosure<br> | <br>A<br>A<br>A<br>$mm^2$ |
| Rated operational current, AC-21A | | up to 690 V<br>1000 V | A<br>A |
| Rated operational current, AC-22A | | up to 500 V<br>690 V | A<br>A |
| Rated operational current, AC-23A | | up to 500 V<br>690 V | A<br>A |
| Rated operational current / poles in series, DC-21A | | 24 - 48 V<br>110 V<br>220 V | A<br>A<br>A |
| Rated operational power, AC-23A<br>(These values are given for guidance and<br>may vary acc. to the motor manufacturer) | | 400-415 V<br>440 V<br>500 V<br>690 V | kW<br>kW<br>kW<br>kW |
| Rated breaking capacity, AC-23A | | up to 500 V<br>690 V | A<br>A |
| Rated conditional short-circuit<br>current $I_p$ (r.m.s.) and corresponding<br>max. allowed cut-off current $\hat{i}_c$<br>The cut-off current $\hat{i}_c$ refers to values<br>listed by fuse manufacturers<br>(single phase test acc. to IEC60269) | $I_p$ (r.m.s.)<br>Max. OFA_ fuse size gG/aM<br>$I_p$ (r.m.s.)<br>Max. OFA_ fuse size gG/aM<br>$I_p$ (r.m.s.)<br>Max. OFA_ fuse size gG/aM | 80 kA<br>≤ 415 V<br>100 kA<br>≤ 500 V<br>50 kA<br>≤ 690 V | kA<br>A<br>kA<br>A<br>kA<br>A |
| Rated short-time withstand current | r.m.s. -value $I_{cw}$ | 690 V 0.25s<br>690 V 1s | kA<br>kA |
| Rated short circuit making capacity | Peak value $I_{cm}$ | 415 V<br>500 V<br>690 V | kA<br>kA<br>kA |
| | Max. distance from switch frame to<br>nearest busbar/cable support | | <br>mm |
| Rated capacitor power<br>When no initial charge on the capacitor | The capacitor ratings<br>are limited by<br>the fuse links | 415 V<br>500 V<br>690 V | kVAr<br>kVAr<br>kVAr |
| Power loss / pole<br>Mechanical endurance | At rated operational current<br>Divide by two for operation cycles | | W<br>Oper. |
| Weight without accessories<br><br>Terminal bolt size | 3-pole<br>4-pole<br>Metric thread diameter x length | | kg<br>kg<br>mm |
| Terminal tightening torque<br>Operating torque | Counter torque required<br>3-pole switch-disconnector | | Nm<br>Nm |

**[1)] Extended phase distance (185 mm)**
**[2)] IEC 947-3, utilization category B, infrequent operation**
**[3)] Pf. 0.95**
**[4)] Pf. 0.65**
**[5)] Maximum distance between busbar support and switch terminal 70 mm.**
**[6)] 690 V: 2500 A**
**[7)] The value is 92 kA for 4-pole switch-disconnectors.**

| 1000<br>OT1000 | 1250<br>OT1250 | 1600<br>OT1600 | 1250<br>OETL1250M | 2000<br>OT2000 | 2500<br>OT2500 | 3150<br>OETL3150 |
|---|---|---|---|---|---|---|
| 1 000<br>10<br>12 | 1 000<br>10<br>12 | 1 000<br>10<br>12 | 1 000<br>8<br>8 | 1 000<br>10<br>12 | 1 000<br>10<br>12 | 1 000<br>8<br>8 |
| 1 000<br>1 000<br><br>2x300 | 1 250<br>1 250<br><br>2x400 | 1 600<br>1 600<br><br>2x500 | 1 250<br>1 250<br>1 000<br>2x(80x5) | 2 000<br><br><br>3x500 | 2 500<br><br><br>4x500 | 3 150<br>2 600<br>2 300<br>3x(100x10) |
| 1 000<br>1 000 | 1 250<br>1 250 | 1 600<br>1 600 | 1 250<br>1 000 | 2 000[2] | 2 500[2] | 3 150[2) 6)]<br>1 000[2] |
| 1 000<br>1 000 | 1 250<br>1 250 | 1 600<br>1 600 | 1 250 | 2 000[2) 9)]<br>2 000[2) 9)] | 2 500[2) 9)]<br>2 500[2) 9)] | 1 600[2] |
| 1 000<br>1 000 | 1 250<br>1 250 | 1 250<br>1 250 | 800 | | | |
| | | | 1 250/1<br>1 250/2<br>1 250/3 | | | |
| 560<br>630<br>710<br>1 000 | 710<br>800<br>900<br>1 200 | 710<br>800<br>900<br>1 200 | 400<br>400<br>450 | | | |
| 10 000<br>10 000 | 10 000<br>10 000 | 10 000<br>10 000 | 6 400<br>2 500[3] | | | 6 400<br>4 800[4] |
| 100<br>1 250/1 250 | 100<br>1 250/1 250 | 100<br>1 250/1 250 | 105 | | | 140 |
| 106<br>1 250/1 250 | 106<br>1 250/1 250 | 106<br>1 250/1 250 | 105 | | | 140 |
| | | | 105 | | | 105 |
| 50<br>50 | 50<br>50 | 50<br>50 | 56[5]<br>50[5] | 80<br>55 | 80<br>55 | <br>80[5] |
| <br><br>110[7] | <br><br>110[7] | <br><br>110[7] | 105<br>105<br>105 | <br><br>176 | <br><br>176 | 176[1]<br>140<br>105 |
| 150 | 150 | 150 | | 150 | 150 | |
| 460<br>550<br>750 | 575<br>690<br>950 | 575<br>690<br>950 | | | | |
| 19<br>6 000 | 29<br>6 000 | 48<br>6 000 | 40<br>6 000 | 55<br>6 000 | 85<br>6 000 | 140<br>1 200 |
| 14.1<br>18<br>M12x50 | 14.1<br>18<br>M12x50 | 15.2<br>19,5<br>M12x60 | 16.3<br>20.5<br>M12x60 | 22<br>28<br>M12x60 | 22<br>28<br>M12x60 | 37<br>47<br>M12x60 |
| 50...75<br>65 | 50...75<br>65 | 50...75<br>65 | 50...75<br>24 | 50-75<br>65 | 50-75<br>65 | 50...75<br>50 |

**[8] Acc. to IEC60947-1, § 6.1.1.**
**[9] Phase barriers or terminal shrouds must be used on both sides of the switch at voltages >= 500 V.**

# Non fusible disconnect switches OT 16...600
# Technical data

| | | | Size<br>Switch type | A | 20<br>OT16_ | | 30<br>OT25_ | |
|---|---|---|---|---|---|---|---|---|
| | | | Approvals[1] | 2 pole<br>3 pole<br>4 pole | <br>UL508 & IEC<br>UL508 & IEC | | <br>UL508 & IEC<br>UL508 & IEC | |
| **Technical data according to UL/CSA** | | | **AC ratings** | | | | | |
| General purpose amp rating | pf= 0.7...0.8 | -40° to 40 °C | | A | 20 | | 30 | |
| Max. oprerating voltage | | | | V | 600 | | 600 | |
| Max. horsepower rating /motor FLA current | pf= 04...0.5 Three phase | 240 V | | HP/A | 5/15.2 | | 7.5/22.0 | |
| | | 480 V | | HP/A | 10/14.0 | | 15/21.0 | |
| | | 600 V | | HP/A | 15/17 | | 20/22.0 | |
| | Single phase | 120 V | | HP/A | 1/16.0 | | 1.5/20.0 | |
| | | 240 V | | HP/A | 2/13.2 | | 3/18.7 | |
| Short circuit rating with fuse | Maximum fuse size | | | A | 30 | 60[2] | 30 | 60[2] |
| | Fuse type | CC | | kA | 10 | | 10 | |
| | Fuse type | J | | kA | 10 | 10 | 10 | 10 |
| | Fuse type | T | | kA | 10 | 10 | 10 | 10 |
| | Fuse type | RK1 | | kA | 10 | | 10 | |
| | Fuse type | RK5 | | kA | 5 | 5 | 5 | 5 |
| | Fuse type | L | | kA | | | | |
| | Fuse type | H | | kA | | | | |
| **Maximum General Use** | | | **DC ratings** | | | | | |
| Current rating | | at 250VDC | | A | | | | |
| | | at 600VDC | | A | | | | |
| DC horsepower rating for 4-pole switch | | at 600VDC | | HP | | | | |
| DC horsepower rating for 2-pole switch | | at 125VDC | | HP | | | | |
| | | at 250VDC | | HP | | | | |
| DC short circuit rating for 4-pole switch | | with circuit breaker | | kA | | | | |
| DC short circuit rating for 2-pole switch | | with circuit breaker at 250VDC | | kA | | | | |
| | | with circuit breaker at 600VDC | | kA | | | | |
| | | with Calss J fuse at 250VDC | | kA | | | | |
| | | ... with fuse size | | A | | | | |
| **Endurances** | | | | | | | | |
| Min. electrical endurance, pf. 0,75 - 0,8 | | | | oper. cycles | 6 000 | | 6 000 | |
| Mechanical endurance | | | | operations | 20 000 | | 20 000 | |
| Terminal lug kits | | | | | integral | | integral | |
| Wire range | | | | AWG | 18-8 | | 18-8 | |
| Torgue | | Wire tightening<br>Lug mounting | | lg. in. | 7 | | 7 | |
| **Technical data according to IEC 60947-3** | | | | | | | | |
| Rated insulation voltage and rated operational voltage AC20/DC20 | Pollution degree 3 | | | V | 750 | | 750 | |
| Dielectric strength | | 50 Hz 1min. | | kV | 6 | | 6 | |
| Rated impulse withstand voltage | | | | kV | 8 | | 8 | |
| Rated operational current, AC-22A | | up to 415 V | | A | 16 | | 25 | |
| | | 440 - 500 V | | A | 16 | | 25 | |
| | | 690 V | | A | 16 | | 25 | |
| Rated operational current, AC-23A | | up to 415 V | | A | 16 | | 20 | |
| | | 440 V | | A | 16 | | 20 | |
| | | 500 V | | A | 16 | | 20 | |
| | | 690 V | | A | 10 | | 11 | |
| Rated conditional short-circuit current $I_p$ (r.m.s.) and corresponding max. allowed cut-off current $\hat{i}_c$ The cut-off current $\hat{i}_c$ refers to values listed by fuse manufacturers (single phase test acc. to IEC60269) | $I_p$ (r.m.s.) | 50 kA | | kA | 6.5 | | 6.5 | |
| | Max. OFA_ fuse size gG/aM | 415 V | | A | 40/32 | | 40/32 | |
| | $I_p$ (r.m.s.) | 10 kA | | kA | | | | |
| | Max. OFA_ fuse size gG/aM | 690 V | | A | | | | |
| | $I_p$ (r.m.s.) | 50 kA | | kA | 4 | | 4 | |
| | Max. OFA_ fuse size gG/aM | 690 V | | A | 25/16 | | 25/16 | |
| | at prospective SC-current | 80 kA | | kA | | | | |
| | Max. OFA_fuse size gG/aM | 690 V | | A | | | | |
| Rated short-time withstand current | r.m.s. -value $I_{cw}$ | 690V, 1s | | kA | 0.5 | | 0.5 | |
| Rated short circuit making capacity | Peak value $I_{cm}$ | 690V/500V | | kA | 0.705 | | 0.705 | |
| Power loss / pole | | At rated operational current | | W | 0.3 | | 0.6 | |
| Mechanical endurance | | Divide by two for operation cycles | | Oper. | 20 000 | | 20 000 | |
| Weight without accessories | | 3-pole | | kg | 0.11 | | 0.11 | |
| | | 4-pole | | kg | 0.15 | | 0.15 | |

**[1] UL Listed switches are also CSA Approved**
**[2] Fuse size 70A for RK5**
**[3] 200A/min. 95 mm², use busbar connections OEZXX16/13 or OZXT2**

# Non fusible disconnect switches OT 16...600
## Technical data

| 40<br>OT40_ | 60<br>OT63_ | 80<br>OT80_ | 30<br>OT30_ | 60<br>OT60 | 100<br>OT100_ | 100<br>OT160_ | 200<br>OT200_U | 400<br>OT400_U | 600<br>OT600_U |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC |
| UL508 & IEC | UL508 & IEC | UL508 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC |
| UL508 & IEC | UL508 & IEC | UL508 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC | UL 98 & IEC |
| 40 | 60 | 80 | 30 | 60 | 100 | 100 | 200 | 400 | 600 |
| 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| 10/28.0 | 15/42.0 | 20/54.0 | 10/28.0 | 20/54.0 | 30/80.0 | 40/104.0 | 75/192.0 | 125/312.0 | 200/480.0 |
| 20/27.0 | 30/40.0 | 40/52.0 | 20/27.0 | 40/52.0 | 50/65.0 | 75/96.0 | 150/180.0 | 250/302.0 | 450/515.0 |
| 25/27.0 | 30/32.0 | 40/41.0 | 30/32.0 | 40/41.0 | 50/52.0 | 100/99.0 | 200/192.0 | 350/336.0 | 500/472.0 |
| 2/24.0 | 2/24.0 | 2/24.0 | 2/24.0 | 3/34.0 | 5/56.0 | 7.5/80.0 | | | |
| 5/30.8 | 7.5/40.0 | 10/57.5 | 5/28.0 | 7.5/40.0 | 15/68.0 | 20/88.0 | | | |
| 30 | 60[2] | 100 | 150 | 100 | 150 | 60 | 150 | 150 | 200 | 200 | 400 | 600 | 600 | 800 |
| 10 | | | | | | | | | | | | | | |
| 10 | 10 | 100 | | 100 | | 50 | 50 | 50 | 100 | 200 | 65 | 100 | | 100 |
| 10 | 10 | 100 | | 100 | | 50 | 50 | 50 | | | | | | 100 |
| 10 | | | | | | | | | | | | | | |
| 5 | 5 | 10 | 5 | 10 | 5 | | | | | | | | 100 | |
| | | | | | | | | | | | | | | 100 |
| | | | 5 | | 5 | | | | | | | | | |
| | | | | | | | | | | 200 | 400 | 600 | | |
| | | | | | | | | | | 100 | 200 | 200 | | |
| | | | | | | | | | | 50 | 50 | - | | |
| | | | | | | | | | | 20 | 40 | - | | |
| | | | | | | | | | | - | 50 | 50 | | |
| | | | | | | | | | | 10 | 10 | 10 | | |
| | | | | | | | | | | 14 | 14 | 18 | | |
| | | | | | | | | | | 10 | 10 | 10 | | |
| | | | | | | | | | | 100 | 100 | 100 | | |
| | | | | | | | | | | 200 | 400 | 600 | | |
| 6 000 | 6 000 | 6 000 | 6 000 | 6 000 | 6 000 | 6 000 | 6 000 | 1 000 | 1 000 |
| 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 16 000 | 10 000 |
| integral | integral | integral | integral | integral | integral | integral | OZXA-200 | OZXA-400 | OZXA-800 |
| 18-8 | 14-4 | 14-4 | 14-4 | 14-4 | 8-1/0 | 8-1/0 | 4-300MCM | 2-600MCM | 2x2-600MCM |
| 7 | 18 | 18 | 55 | 55 | 55 | 70 | 275 | 375 | 500 |
| | | | | | | | 72 | 240 | 480 |
| 750 | 750 | 750 | 750 | 750 | 750 | 750 | 1 000 | 1 000 | 1 000 |
| 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | 10 | 10 |
| 8 | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 |
| 40 | 63 | 80 | 40 | 63 | 100 | 200[3] | 250 | 400 | 800 |
| 40 | 63 | 80 | 40 | 63 | 100 | 160 | 250 | 400 | 800 |
| 40 | 63 | 80 | 40 | 63 | 100 | 160 | 250 | 400 | 800 |
| 23 | 45 | 75 | 40 | 63 | 80 | 135 | 250 | 400 | 800 |
| 23 | 45 | 65 | 40 | 63 | 65 | 125 | 250 | 400 | 800 |
| 23 | 45 | 58 | 40 | 63 | 60 | 125 | 250 | 400 | 800 |
| 12 | 20 | 20 | 40 | 40 | 40 | 80 | 250 | 400 | 800 |
| 6.5 | 13 | 13 | 16.5 | 16.5 | 16.5 | | | | |
| 40/32 | 100/80 | 100/80 | 125/125 | 125/125 | 125/125 | | | | |
| | | | 8.2 | 8.2 | 8.2 | | | | |
| | | | 125/100 | 125/100 | 125/100 | | | | |
| 4 | 11 | 11 | 10 | 10 | 10 | 24 | 35 | 50.5 | 71.5 |
| 25/16 | 80/63 | 80/63 | 63/63 | 63/63 | 63/63 | 200/250 | 355/315 | 500/500 | 800/1 000 |
| | | | | | | | 40.5 | 59 | 83.5 |
| | | | | | | | 355/315 | 500/500 | 800/1 000 |
| 0.5 | 1 | 1.5 | 2.5 | 2.5 | 2.5 | 4 | 8 | 15 | 20 |
| 0.705 | 1.4 | 2.1 | 3.6 | 3.6 | 3.6 | 12 | 30 | 65 | 80 |
| 1.6 | 2.8 | 4.5 | 0.7 | 1.6 | 4.0 | 6.5 | 6.5 | 10 | 40 |
| 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 16 000 | 10 000 |
| 0.11 | 0.27 | 0.27 | 0.36 | 0.36 | 0.36 | 1.1 | 1.2 | 2.2 | 5.2 |
| 0.15 | 0.35 | 0.35 | 0.50 | 0.50 | 0.50 | 1.3 | 1.5 | 2.8 | 6.4 |

# Non fusible disconnect switches OT 800...1200 and OETL-NF 1600...2000
# Technical data

| | | | Size<br>Switch type | A | 800<br>OT800U_ | 1200<br>OT1200U_ | 1600<br>OETL<br>-NF1600P | 2000<br>OETL<br>-NF2000P |
|---|---|---|---|---|---|---|---|---|
| | | | Approvals[1] | 2 pole<br>3 pole<br>4 pole | <br>UL 98 & IEC<br>UL 98 & IEC | <br>UL 98 & IEC<br>UL 98 & IEC | UL 98 & IEC<br>UL 98 & IEC<br>IEC | UL 98 & IEC<br>UL 98 & IEC<br>IEC |

## Technical data according to UL/CSA
## AC Ratings

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| General purpose amp rating | pf= 0.7...0.8 | -40° to 40 °C | A | 800 | 1200 | 1600 | 2000 |
| Max. oprerating voltage | | | V | 600 | 600 | 600 | 480 |
| Max. horsepower rating | pf= 04...0.5 | 240 V | HP/A | 200/602 | | | |
| /max. motor FLA current | Three phase | 480 V | HP/A | 500/590 | | | |
| | | 600 V | HP/A | 500/472 | | | |
| Short circuit rating with fuse | | | | | | | |
| | Fuse type | L | kA | 100 | 100 | 100 | 100 |
| Maximum fuse size | | | A | 800 | 1200 | 2000 | 2000 |

## Endurances

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Min. electrical endurance, pf. 0,75 - 0,8 | | | oper. cycles | 500 | 500 | 500 | 500 |
| Mechanical endurance | | | operations | 6 000 | 6 000 | 4 000 | 4 000 |
| Terminal lug kits | | | | OZXA-800 | OZXA-1200 | OZXA28 | OZXA28/2 |
| Wire range | | | AWG | 2x2-600MCM | 4x2-600MCM | 4x2-600MCM | 8x2-600MCM |
| Torgue | | Wire tightening | lb. in. | 500 | 500 | 375 | 375 |
| | | Lug mounting | lb.in. | 480 | 450-670 | 230 | 230 |

## Technical data according to IEC 60947

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Rated insulation voltage and rated operational voltage AC20/DC20 | Pollution degree 3 | | V | 1000 | 1000 | 1000 | 1000 |
| Dielectric strength | 50 Hz 1min. | | kV | 10 | 10 | 8 | 8 |
| Rated impulse withstand voltage | | | kV | 12 | 12 | 8 | 8 |
| Rated operational current, AC-22A | | up to 415 V | A | 1600 | 1600 | 1600 | 1600[3] |
| | | 440 - 500 V | A | 1600 | 1600 | 1600 | 1600[3] |
| | | 690 V | A | 1600 | 1600 | | |
| Rated operational current, AC-23A | | up to 415 V | A | 1250 | 1250 | 800 | |
| | | 440 V | A | 1250 | 1250 | 800 | |
| | | 500 V | A | 1250 | 1250 | 800 | |
| | | 690 V | A | 1250 | 1250 | | |
| Rated conditional short-circuit current $I_p$ (r.m.s.) and corresponding max. allowed cut-off current $\hat{i}_c$ | $I_p$ (r.m.s.) | 50 kA | kA | | | 105 | 140 |
| | Max. OFA_ fuse size gG/aM | 415 V | A | | | | |
| | $I_p$ (r.m.s.) | 50 kA | kA | | | 105 | 140 |
| The cut-off current $\hat{i}_c$ refers to values | Max. OFA_ fuse size gG/aM | 500 V | A | | | | |
| listed by fuse manufacturers | $I_p$ (r.m.s.) | 50 kA | kA | | | 105 | 105 |
| (single phase test acc. to IEC60269) | Max. OFA_ fuse size gG/aM | 690 V | A | | | | |
| Rated short-time withstand current | R.M.S. -value $I_{cw}$ | 690V 1s | kA | 50 | 50 | 50[2] | 80[2] |
| Rated short circuit making capacity | Peak value $I_{cm}$ | 500/690 V | kA | 110[4] | 110[4] | 105 | 140/105 |
| Power loss / pole | | At rated operational current | W | 29 | 48 | 67 | 90 |
| Weight without accessories | | 3-pole | kg | 15.2 | 15.2 | 17.5 | 37 |
| | | 4-pole | kg | 19.5 | 19.5 | 22.5 | 47 |
| Terminal bolt size | | Metric thread diameter x length | mm | M12x50 | M12x60 | M12x60 | M12x60 |

**[1] UL Listed switches are also CSA Approved**
**[2] Max. distance between busbar support and switch terminal 70 mm.**
**[3] IEC60947-3 category B**
**[4] The value is 92 kA for 4-pole switch disconnector**

S04049

OT16 - 40F3

S04050

OT 63 - 80F3

S04051

OT 100 - 125F3

S00464B

OT 160E3

S04052

OT16 - 40F6

## Front operated switch-disconnectors

Types OT 16...125 include protected terminal clamps, IP 20.
The type and the ordering numbers are for one piece.

| Number of [A] | $I_{th}$ (open) [mm²] | Cable cross section AC22A/AC23A | Rated operat. currents 400V [A/A] | Type | Order number | batch | Delivery unit [pcs] | Weight/ poles [kg] |
|---|---|---|---|---|---|---|---|---|
| 3 | 25 | 0.75...10 | 16 / 16 | OT16F3 | 1SCA104811R1001 | | 10 | 0.11 |
| 4 | 25 | 0.75...10 | 16 / 16 | OT16F4N2 | 1SCA104829R1001 | | 10 | 0.14 |
| 3 | 32 | 0.75...10 | 25 / 20 | OT25F3 | 1SCA104857R1001 | | 10 | 0.11 |
| 4 | 32 | 0.75...10 | 25 / 20 | OT25F4N2 | 1SCA104886R1001 | | 10 | 0.14 |
| 3 | 40 | 0.75...10 | 40 / 23 | OT40F3 | 1SCA104902R1001 | | 10 | 0.11 |
| 4 | 40 | 0.75...10 | 40 / 23 | OT40F4N2 | 1SCA104932R1001 | | 10 | 0.14 |
| 3 | 63 | 1.5...35 | 63 / 45 | OT63F3 | 1SCA105332R1001 | | 10 | 0.27 |
| 4 | 63 | 1.5...35 | 63 / 45 | OT63F4N2 | 1SCA105365R1001 | | 10 | 0.30 |
| 3 | 80 | 1.5...35 | 80 / 75 | OT80F3 | 1SCA105798R1001 | | 10 | 0.27 |
| 4 | 80 | 1.5...35 | 80 / 75 | OT80F4N2 | 1SCA105413R1001 | | 10 | 0.30 |
| 3 | 115 | 10...70 | 100 / 80 | OT100F3 | 1SCA105004R1001 | | 10 | 0.36 |
| 4 | 115 | 10...70 | 100 / 80 | OT100F4N2 | 1SCA105018R1001 | | 10 | 0.50 |
| 3 | 125 | 10...70 | 125 / 90 | OT125F3 | 1SCA105033R1001 | | 10 | 0.36 |
| 4 | 125 | 10...70 | 125 / 90 | OT125F4N2 | 1SCA105051R1001 | | 10 | 0.50 |
| 3 | 200 | | 200[1]/135 | OT160E3[2] | 1SCA022257R5950 | | 1 | 1.2 |
| 4 | 200 | | 200[1]/135 | OT160E4[2] | 1SCA022259R8060 | | 1 | 1.4 |
| 3 | 200 | | 200[1]/135 | OT160E3-2 | 1SCA022297R4060 | | 1 | 1.0 |

### Shafts and handles included as standard

| Suitable for switches | Included shaft | Included handle |
|---|---|---|
| OT160E3, _E4 | OXP6X210 | OHB65J6 |

## Front operated, 6- and 8-pole switch-disconnectors

Including protected terminal clamps, IP 20.

| Number of poles | $I_{th}$ (open) [A] | Cable cross section [mm²] | Operational currents AC22/AC23 400V [A/A] | Type | Order number | | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|---|---|
| 6 | 25 | 0.75...10 | 16/16 | OT16F6 | 1SCA104834R1001 | | 1 | 0.25 |
| 6 | 32 | 0.75...10 | 25/20 | OT25F6 | 1SCA104880R1001 | | 1 | 0.25 |
| 6 | 40 | 0.75...10 | 40/23 | OT40F6 | 1SCA104936R1001 | | 1 | 0.25 |
| 6 | 63 | 1.5...35 | 63/45 | OT63F6 | 1SCA105379R1001 | | 1 | 0.61 |
| 6 | 80 | 1.5...35 | 80/75 | OT80F6 | 1SCA105427R1001 | | 1 | 0.61 |
| 6 | 115 | 10...70 | 100/80 | OT100F6 | 1SCA105021R1001 | | 1 | 0.81 |
| 6 | 125 | 10...70 | 125/90 | OT125F6 | 1SCA105057R1001 | | 1 | 0.81 |
| 8 | 25 | 0.75...10 | 16/16 | OT16F8 | 1SCA104836R1001 | | 1 | 0.31 |
| 8 | 32 | 0.75...10 | 25/20 | OT25F8 | 1SCA104882R1001 | | 1 | 0.31 |
| 8 | 40 | 0.75...10 | 40/23 | OT40F8 | 1SCA104938R1001 | | 1 | 0.31 |
| 8 | 63 | 1.5...35 | 63/45 | OT63F8 | 1SCA105381R1001 | | 1 | 0.67 |
| 8 | 80 | 1.5...35 | 80/75 | OT80F8 | 1SCA105429R1001 | | 1 | 0.67 |
| 8 | 115 | 10...70 | 100/80 | OT100F8 | 1SCA105022R1001 | | 1 | 1.1 |
| 8 | 125 | 10...70 | 125/90 | OT125F8 | 1SCA105059R1001 | | 1 | 1.1 |

[1] 200A/min. 95 mm², use busbar connections OEZXX6/13 or OZXT2
[2] Handle and shaft included

S02101A
OT200 - 250E03P

S02102A
OT200 - 250E04P

S02103A
OT315 - 400E03P

S02104A
OT315 - 400E04P

S02105A
OT630 - 800E03P

S02106A
OT630 - 800E04P

## Front operated switch-disconnectors, with pistol handle

Including a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.

| Number of poles | $I_{th}$ (open) [A] | Rated operat. currents AC22A/AC23A 400V [A/A] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| 3 | 200 | 200/200 | OT200E03P | 1SCA022712R0800 | 1 | 1.6 |
| 4 | 200 | 200/200 | OT200E04P | 1SCA022713R4930 | 1 | 2.0 |
| 3 | 200 | 200/200 | OT200E12P | 1SCA022721R3990 | 1 | 1.6 |
| 4 | 200 | 200/200 | OT200E22P | 1SCA022721R4020 | 1 | 2.0 |
| 3 | 250 | 250/250 | OT250E03P | 1SCA022710R0100 | 1 | 1.6 |
| 4 | 250 | 250/250 | OT250E04P | 1SCA022710R0520 | 1 | 2.0 |
| 3 | 250 | 250/250 | OT250E12P | 1SCA022721R4110 | 1 | 1.6 |
| 4 | 250 | 250/250 | OT250E22P | 1SCA022721R4290 | 1 | 2.0 |
| 3 | 315 | 315/315 | OT315E03P | 1SCA022718R8510 | 1 | 3.1 |
| 4 | 315 | 315/315 | OT315E04P | 1SCA022719R1730 | 1 | 3.7 |
| 3 | 315 | 315/315 | OT315E12P | 1SCA022727R4190 | 1 | 3.1 |
| 4 | 315 | 315/315 | OT315E22P | 1SCA022727R4270 | 1 | 3.7 |
| 3 | 400 | 400/400 | OT400E03P | 1SCA022718R8780 | 1 | 3.1 |
| 4 | 400 | 400/400 | OT400E04P | 1SCA022719R1810 | 1 | 3.7 |
| 3 | 400 | 400/400 | OT400E12P | 1SCA022727R5750 | 1 | 3.1 |
| 4 | 400 | 400/400 | OT400E22P | 1SCA022727R5830 | 1 | 3.7 |
| 3 | 630 | 630/630 | OT630E03P | 1SCA022718R8940 | 1 | 6.3 |
| 3+N[1)] | 630 | 630/630 | OT630E03N3P | 1SCA022779R4860 | 1 | 6.7 |
| 4 | 630 | 630/630 | OT630E04P | 1SCA022719R2030 | 1 | 7.5 |
| 3 | 630 | 630/630 | OT630E12P | 1SCA022753R4790 | 1 | 6.3 |
| 4 | 630 | 630/630 | OT630E22P | 1SCA022753R4870 | 1 | 7.5 |
| 3 | 800 | 800/800 | OT800E03P | 1SCA022718R9410 | 1 | 6.3 |
| 3+N[1)] | 800 | 800/800 | OT800E03N3P | 1SCA022779R4780 | 1 | 6.7 |
| 4 | 800 | 800/800 | OT800E04P | 1SCA022719R2110 | 1 | 7.5 |
| 3 | 800 | 800/800 | OT800E12P | 1SCA022753R5170 | 1 | 6.3 |
| 4 | 800 | 800/800 | OT800E22P | 1SCA022753R5250 | 1 | 7.5 |

### Shafts and handles included as standard

| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|---|---|---|---|
| OT200…250_P | OXP6X210 | OHB65J6 | M8x25 |
| OT315…400_P | OXP12X185 | OHB95J12 | M10x30 |
| OT630…800_P | OXP12X185 | OHB125J12 | M12x40 |

[1)] Include a detachable neutral link integrated into the mechanism.

KE00050

OT1000 - 1250_03P

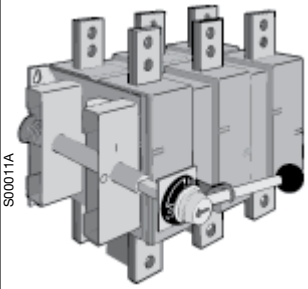
KE00046

OT1600_03P

S04007

OT2000 - 2500E03P

S00011A



OETL3150K3

## Front operated switch-disconnectors

| Number of poles | $I_{th}$ (open) [A] | Rated oper. currents AC22A/AC23A 400V [A/A] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| Including terminal bolt kit, a black ON-OFF plastic handle OHB200J12P and shaft OXP12x280 as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths. | | | | | | |
| 3 | 1000 | 1000/1000 | OT1000E03P | 1SCA022860R5930 | 1 | 17.0 |
| 3+N | 1000 | 1000/1000 | OT1000E03N3P | 1SCA100761R1001 | 1 | 17.9 |
| 4 | 1000 | 1000/1000 | OT1000E04P | 1SCA022860R6150 | 1 | 19.5 |
| 3 | 1000 | 1000/1000 | OT1000E12P | 1SCA022871R5520 | 1 | 17.0 |
| 4 | 1000 | 1000/1000 | OT1000E22P | 1SCA022871R5610 | 1 | 19.5 |
| 3 | 1250 | 1250/1250 | OT1250E03P | 1SCA022860R6230 | 1 | 17.0 |
| 3+N | 1250 | 1250/1250 | OT1250E03N3P | 1SCA022865R7060 | 1 | 17.9 |
| 4 | 1250 | 1250/1250 | OT1250E04P | 1SCA022860R6310 | 1 | 19.5 |
| 3 | 1250 | 1250/1250 | OT1250E12P | 1SCA022871R5790 | 1 | 17.0 |
| 4 | 1250 | 1250/1250 | OT1250E22P | 1SCA022871R5870 | 1 | 19.5 |
| 3 | 1600 | 1600/1250 | OT1600E03P | 1SCA022860R6580 | 1 | 19.0 |
| 3+N | 1600 [5] | 1600/1250 | OT1600E03N3P | 1SCA022865R6920 | 1 | 19.9 |
| 4 | 1600 | 1600/1250 | OT1600E04P | 1SCA022860R6740 | 1 | 22 |
| 3 | 1600 | 1600/1250 | OT1600E12P | 1SCA022871R5950 | 1 | 19.0 |
| 4 | 1600 | 1600/1250 | OT1600E22P | 1SCA022871R6090 | 1 | 22 |
| 3 | 2000 | 2000/- | OT2000E03P | 1SCA108036R1001 | 1 | 42 |
| 3+N | 2000 [5] | 2000/- | OT2000E03N3P | 1SCA108037R1001 | 1 | 42 |
| 4 | 2000 | 2000/- | OT2000E04P | 1SCA108038R1001 | 1 | 48 |
| 3 | 2000 | 2000/- | OT2000E12P | 1SCA108039R1001 | 1 | 42 |
| 4 | 2000 | 2000/- | OT2000E22P | 1SCA108041R1001 | 1 | 48 |
| 3 | 2500 | 2500/- | OT2500E03P | 1SCA104972R1001 | 1 | 42 |
| 3+N | 2500 [5] | 2500/- | OT2500E03N3P | 1SCA108035R1001 | 1 | 42 |
| 4 | 2500 | 2500/- | OT2500E04P | 1SCA105140R1001 | 1 | 49 |
| 3 | 2500 | 2500/- | OT2500E12P | 1SCA104978R1001 | 1 | 42 |
| 4 | 2500 | 2500/- | OT2500E22P | 1SCA105156R1001 | 1 | 49 |
| Including an IP54 metallic handle with I-O-indication. Padlockable in the O-position. | | | | | | |
| 3 | 3150 | 1600/- | OETL3150K3[4] | 1SCA022115R6340 | 1 | 37 |
| 3 | 3150 | 1600/- | OETL3150K185[2)4] | 1SCA022136R7550 | 1 | 38 |
| 4 | 3150 | 1600/- | OETL3150K4[4] | 1SCA022115R6510 | 1 | 47 |
| 3 | 3150 | 1600/- | OETL3150K3-2[3)4] | 1SCA022157R4260 | 1 | 37 |
| 3 | 3150 | 1600/- | OETL3150K3-H20[4)1] | 1SCA022163R8090 | 1 | 37 |
| 3 | 3150 | 1600/- | OETL3150KV12 | 1SCA022290R3390 | 1 | 37 |
| 4 | 3150 | 1600/- | OETL3150KV22 | 1SCA022293R8260 | 1 | 47 |

### Shafts and handles included as standard

| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|---|---|---|---|
| OT1000...1250_P | OXP12X280 | OHB200J12P | M12x50 |
| OT1600_P | OXP12X280 | OHB200J12P | M12x60 |
| OT2000…2500_P | OXP12X280 | OHB200J12P | M12x60 |
| OETL3150 | OXP12X325 | YASDA7 | M12x60 |

[1] Extra thick (20 μm) silver coating on the contacts.
[2] With extended phase distances:
- OETL 2500K185/3150K185:185 mm
[3] Handle and shaft have to be ordered separately
[4] The busbar connections for different busbar arrangements have to be ordered separately.
[5] $I_{th}$ for N-pole =1250A

OT200 - 250E03K

OT315 - 400E03K

OT630 - 800E03K

OT1000-1600E03K

OT2000-2500E03K

OT200 - 250E03W

OT315 - 400E03W

## Front operated switch-disconnectors with direct mounted handle

Including a black Test-OFF-ON plastic handle and shaft as standard. The handle is padlockable in the OFF-position.

| Number of poles | $I_{th}$ (open) [A] | Rated operat. currents AC22A/AC23A 400V [A/A] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| 3 | 200 | 200/200 | OT200E03K | 1SCA022763R4820 | 1 | 1.5 |
| 4 | 200 | 200/200 | OT200E04K | 1SCA022763R4910 | 1 | 1.9 |
| 3 | 250 | 250/250 | OT250E03K | 1SCA022763R5040 | 1 | 1.5 |
| 4 | 250 | 250/250 | OT250E04K | 1SCA022763R5210 | 1 | 1.9 |
| 3 | 315 | 315/315 | OT315E03K | 1SCA022763R5630 | 1 | 2.9 |
| 4 | 315 | 315/315 | OT315E04K | 1SCA022763R5710 | 1 | 3.5 |
| 3 | 400 | 400/400 | OT400E03K | 1SCA022763R5390 | 1 | 2.9 |
| 4 | 400 | 400/400 | OT400E04K | 1SCA022763R5550 | 1 | 3.5 |
| 3 | 630 | 630/630 | OT630E03K | 1SCA022779R4940 | 1 | 6.3 |
| 4 | 630 | 630/630 | OT630E04K | 1SCA022779R5080 | 1 | 7.5 |
| 3 | 800 | 800/800 | OT800E03K | 1SCA022779R5160 | 1 | 6.3 |
| 4 | 800 | 800/800 | OT800E04K | 1SCA022779R5240 | 1 | 7.5 |
| 3 | 1000 | 1000/1000 | OT1000E03K | 1SCA108353R1001 | 1 | 17.5 |
| 4 | 1000 | 1000/1000 | OT1000E04K | 1SCA108355R1001 | 1 | 21.5 |
| 3 | 1250 | 1250/1250 | OT1250E03K | 1SCA108356R1001 | 1 | 17.5 |
| 4 | 1250 | 1250/1250 | OT1250E04K | 1SCA108357R1001 | 1 | 21.5 |
| 3 | 1600 | 1600/1250 | OT1600E03K | 1SCA108352R1001 | 1 | 18.5 |
| 4 | 1600 | 1600/1250 | OT1600E04K | 1SCA108358R1001 | 1 | 21.5 |
| 3 | 2000 | 2000/- | OT2000E03K | 1SCA108359R1001 | 1 | 42.3 |
| 4 | 2000 | 2000/- | OT2000E04K | 1SCA108362R1001 | 1 | 47.8 |
| 3 | 2500 | 2500/- | OT2500E03K | 1SCA108361R1001 | 1 | 42.3 |
| 4 | 2500 | 2500/- | OT2500E04K | 1SCA108363R1001 | 1 | 48.8 |

## Front operated switch-disconnectors with wide phase distance

The phase barriers are mounted as standard. Including a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 200 | 200/200 | OT200E03WP | 1SCA022744R2670 | 1 | 1.8 |
| 4 | 200 | 200/200 | OT200E04WP | 1SCA022744R3130 | 1 | 2.2 |
| 3 | 200 | 200/200 | OT200E12WP | 1SCA022744R2910 | 1 | 1.8 |
| 4 | 200 | 200/200 | OT200E22WP | 1SCA022744R3300 | 1 | 2.2 |
| 3 | 250 | 250/250 | OT250E03WP | 1SCA022744R3560 | 1 | 1.8 |
| 4 | 250 | 250/250 | OT250E04WP | 1SCA022744R3810 | 1 | 2.2 |
| 3 | 250 | 250/250 | OT250E12WP | 1SCA022745R0000 | 1 | 1.8 |
| 4 | 250 | 250/250 | OT250E22WP | 1SCA022745R0180 | 1 | 2.2 |
| 3 | 315 | 315/315 | OT315E03WP | 1SCA022809R8650 | 1 | 3.4 |
| 4 | 315 | 315/315 | OT315E04WP | 1SCA022809R8900 | 1 | 4.0 |
| 3 | 315 | 315/315 | OT315E12WP | 1SCA022809R9380 | 1 | 3.4 |
| 4 | 315 | 315/315 | OT315E22WP | 1SCA022810R0900 | 1 | 4.0 |
| 3 | 400 | 400/400 | OT400E03WP | 1SCA022809R8310 | 1 | 3.4 |
| 4 | 400 | 400/400 | OT400E04WP | 1SCA022809R8810 | 1 | 4.0 |
| 3 | 400 | 400/400 | OT400E12WP | 1SCA022809R9200 | 1 | 3.4 |
| 4 | 400 | 400/400 | OT400E22WP | 1SCA022810R0570 | 1 | 4.0 |

### Shafts and handles included as standard

| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|---|---|---|---|
| OT200…250_K | | OTV250EK | M8x25 |
| OT315…400_K | | OTV400EK | M10x30 |
| OT630…800_K | | OTV800EK | M12x40 |
| OT1000...1250_K | | OTV1000EK | M12x50 |
| OT1600_K | | OTV1000EK | M12X60 |
| OT2000...2500_K | | OTV1000EK | M12x60 |
| OT200…250_P | OXP6X210 | OHB65J6 | M8x25 |
| OT315…400_P | OXP12X185 | OHB95J12 | M10x30 |

KE00054

OT1000-1600E03W4P

KE00053

OT1000-1600E03W8P

S04009

OT 2000-2500E03W4P

S04010

OT 2000-2500E03W8P

S00260A

OT 16 - 40FT3

S00690A

OT 63 - 80FT3

S01341A

OT 100 - 125FT3

S00466B

OT 160ET3

## Front operated switch-disconnectors with wide phase distance

The phase barriers are mounted as standard. Including a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.

| Number of poles | $I_{th}$ (open) [A] | Rated operat. currents AC22A/AC23A 400V [A/A] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| 3 | 1000 | 1000/1000 | OT1000E03W4P | 1SCA022871R7310 | 1 | 19.8 |
| 4 | 1000 | 1000/1000 | OT1000E04W4P | 1SCA100762R1001 | 1 | 24 |
| 3 | 1000 | 1000/1000 | OT1000E03W8P | 1SCA022871R8110 | 1 | 22 |
| 3 | 1250 | 1250/1250 | OT1250E03W4P | 1SCA022866R1920 | 1 | 19.8 |
| 4 | 1250 | 1250/1250 | OT1250E04W4P | 1SCA022866R2220 | 1 | 24 |
| 3 | 1250 | 1250/1250 | OT1250E03W8P | 1SCA022871R8540 | 1 | 22 |
| 3 | 1600 | 1600/1250 | OT1600E03W4P | 1SCA022865R9860 | 1 | 22 |
| 4 | 1600 | 1600/1250 | OT1600E04W4P | 1SCA022866R1090 | 1 | 26 |
| 3 | 1600 | 1600/1250 | OT1600E03W8P | 1SCA022871R8970 | 1 | 24 |
| 3 | 2000 | 2000/- | OT2000E03W4P | 1SCA108042R1001 | 1 | 42 |
| 4 | 2000 | 2000/- | OT2000E13W4P | 1SCA109284R1001 | 1 | 48 |
| 3 | 2000 | 2000/- | OT2000E03W8P | 1SCA108045R1001 | 1 | 42 |
| 4 | 2000 | 2000/- | OT2000E13W8P | 1SCA109283R1001 | 1 | 48 |
| 3 | 2500 | 2500/- | OT2500E03W4P | 1SCA108047R1001 | 1 | 49 |
| 4 | 2500 | 2500/- | OT2500E13W4P | 1SCA109285R1001 | 1 | 49 |
| 3 | 2500 | 2500/- | OT2500E03W8P | 1SCA108049R1001 | 1 | 49 |
| 4 | 2500 | 2500/- | OT2500E13W8P | 1SCA109286R1001 | 1 | 49 |

## Front operated switch-disconnectors, door mounting

Types OT 16...160 include protected terminal clamps, IP 20.
The type and ordering numbers are for one piece.

| Number of poles | $I_{th}$ (open) [A] | Cable cross section [mm²] | Rated operat. currents AC22A/AC23A 400V [A/A] | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|---|
| 3 | 25 | 0.75...10 | 16/16 | OT16FT3 | 1SCA104838R1001 | 10 | 0.13 |
| 4 | 25 | 0.75...10 | 16/16 | OT16FT4N2 | 1SCA105711R1001 | 10 | 0.16 |
| 3 | 32 | 0.75...10 | 25/20 | OT25FT3 | 1SCA104884R1001 | 10 | 0.13 |
| 4 | 32 | 0.75...10 | 25/20 | OT25FT4N2 | 1SCA104900R1001 | 10 | 0.16 |
| 3 | 40 | 0.75...10 | 40/23 | OT40FT3 | 1SCA104940R1001 | 10 | 0.13 |
| 4 | 40 | 0.75...10 | 40/23 | OT40FT4N2 | 1SCA104956R1001 | 10 | 0.16 |
| 3 | 63 | 1.5...35 | 63/45 | OT63FT3 | 1SCA105382R1001 | 10 | 0.28 |
| 4 | 63 | 1.5...35 | 63/45 | OT63FT4N2 | 1SCA105393R1001 | 10 | 0.35 |
| 3 | 80 | 1.5...35 | 80/75 | OT80FT3 | 1SCA105431R1001 | 10 | 0.28 |
| 4 | 80 | 1.5...35 | 80/75 | OT80FT4N2 | 1SCA105499R1001 | 10 | 0.35 |
| 3 | 115 | 10...70 | 100/80 | OT100FT3 | 1SCA105023R1001 | 10 | 0.40 |
| 4 | 115 | 10...70 | 100/80 | OT100FT4N2 | 1SCA105031R1001 | 10 | 0.54 |
| 3 | 125 | 10...70 | 125/90 | OT125FT3 | 1SCA105060R1001 | 10 | 0.40 |
| 4 | 125 | 10...70 | 125/90 | OT125FT4N2 | 1SCA105066R1001 | 10 | 0.54 |
| 3 | 200 | 10...70 | 200[1]/135 | OT160ET3 | 1SCA022350R1960 | 1 | 1.0 |
| 4 | 200 | 10...70 | 200[1]/135 | OT160ET4 | 1SCA022460R6920 | 1 | 1.3 |

### Shafts and handles included as standard

| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|---|---|---|---|
| OT1000...1250_P | OXP12X280 | OHB200J12P | M12X50 |
| OT1600_P | OXP12X280 | OHB200J12P | M12X60 |
| OT2000...2500_P | OXP12X280 | OHB200J12P | M12X60 |
| OT160ET | OXP6X130 | OHB65J6 | |

**W4 = Phase distance 140 mm**
**W8 = Phase distance 185 mm**

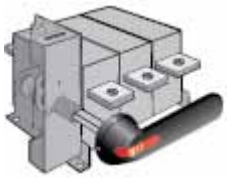
[1] **200A/min. 95 mm², use busbar connections OEZXX6/13 or OZXT2**

S02200A

OT200ES03

S02201A

OT200ES03K


S00007B

OETL1250M3

## Side operated switch-disconnectors without handle

Including terminal bolt kit, the handle and shaft have to be ordered separately.

| Number of poles | $I_{th}$ (open) [A] | Rated oper. currents AC22A/AC23A 400V [A/A] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| 3 | 200 | 200/200 | OT200ES03 | 1SCA022860R0200 | 1 | 1.8 |
| 4 | 200 | 200/200 | OT200ES04 | 1SCA022860R0540 | 1 | 2.2 |
| 3 | 250 | 250/250 | OT250ES03 | 1SCA022860R0890 | 1 | 1.8 |
| 4 | 250 | 250/250 | OT250ES04 | 1SCA022860R1010 | 1 | 2.2 |
| 3 | 315 | 315/315 | OT315ES03 | 1SCA022860R1270 | 1 | 3.4 |
| 4 | 315 | 315/315 | OT315ES04 | 1SCA022860R1510 | 1 | 4.0 |
| 3 | 400 | 400/400 | OT400ES03 | 1SCA022860R1780 | 1 | 3.4 |
| 4 | 400 | 400/400 | OT400ES04 | 1SCA022860R1940 | 1 | 4.0 |
| 3 | 630 | 630/630 | OT630ES03 | 1SCA022860R2240 | 1 | 7.0 |
| 4 | 630 | 630/630 | OT630ES04 | 1SCA022860R2410 | 1 | 8.2 |
| 3 | 800 | 800/800 | OT800ES03 | 1SCA022860R2670 | 1 | 7.0 |
| 4 | 800 | 800/800 | OT800ES04 | 1SCA022860R2830 | 1 | 8.2 |

## Side operated switch-disconnectors with direct mounted handle

Including terminal bolt kit, a black Test-ON-OFF plastic handle and shaft as standard. The handle is padlockable in the OFF-position.

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 200 | 200/200 | OT200ES03K | 1SCA022860R0620 | 1 | 1.9 |
| 4 | 200 | 200/200 | OT200ES04K | 1SCA022860R0710 | 1 | 2.3 |
| 3 | 250 | 250/250 | OT250ES03K | 1SCA022860R0970 | 1 | 1.9 |
| 4 | 250 | 250/250 | OT250ES04K | 1SCA022860R1190 | 1 | 2.3 |
| 3 | 315 | 315/315 | OT315ES03K | 1SCA022860R1350 | 1 | 3.5 |
| 4 | 315 | 315/315 | OT315ES04K | 1SCA022860R1600 | 1 | 4.1 |
| 3 | 400 | 400/400 | OT400ES03K | 1SCA022860R1860 | 1 | 3.5 |
| 4 | 400 | 400/400 | OT400ES04K | 1SCA022860R2080 | 1 | 4.1 |
| 3 | 630 | 630/630 | OT630ES03K | 1SCA022860R2320 | 1 | 7.0 |
| 4 | 630 | 630/630 | OT630ES04K | 1SCA022860R2590 | 1 | 8.4 |
| 3 | 800 | 800/800 | OT800ES03K | 1SCA022860R2750 | 1 | 7.2 |
| 4 | 800 | 800/800 | OT800ES04K | 1SCA022860R2910 | 1 | 8.4 |

## Earthing switches, base mounting

Including a black IP65 handle with ⏚ - O -indication, padlockable in both positions, door interlock in O-position.

| Number of poles | Short circuit making capacity r.m.s. [kA] | Short time withstand current/1s [kA] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| 3 | 50/0.4s[2] | 50 | OETL1250M3 | 1SCA022102R1410 | 1 | 16 |
| 4 | 50/0.5s[2] 110 (Peak) | | OETL1250M4 | 1SCA022189R0930 | 1 | 21 |
| 3 | | | OETL1250M140[1] | 1SCA022126R6950 | 1 | 21 |
| 4 | | | OETL1250M4-140[1] | 1SCA022290R5680 | 1 | 25 |

### Shafts and handles included as standard

| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|---|---|---|---|
| OT200...250 | | | M8x25 |
| OT315...400 | | | M10x30 |
| OT630..800 | | | M12x40 |
| OETL1250 | OXP12X185 | OHB145J12E421 | M12x60 |

[1] **Phase distance 140 mm**
[2] **Max. distance between busbar support and switch terminal 70 mm**

S04053

OT30 - 100F3

S01632A

OT200U03P

S01838A

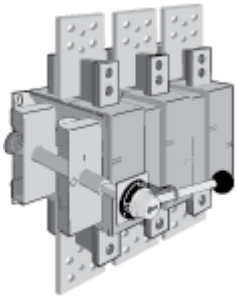
OT400U03P

S02105A

OT600U03P

KE00046

OT800 - 1200U03P


S00948A

OETL - NF 1600 - 2000P

## Front operated, non-fusible disconnect switches

The type and ordering numbers are for one piece.

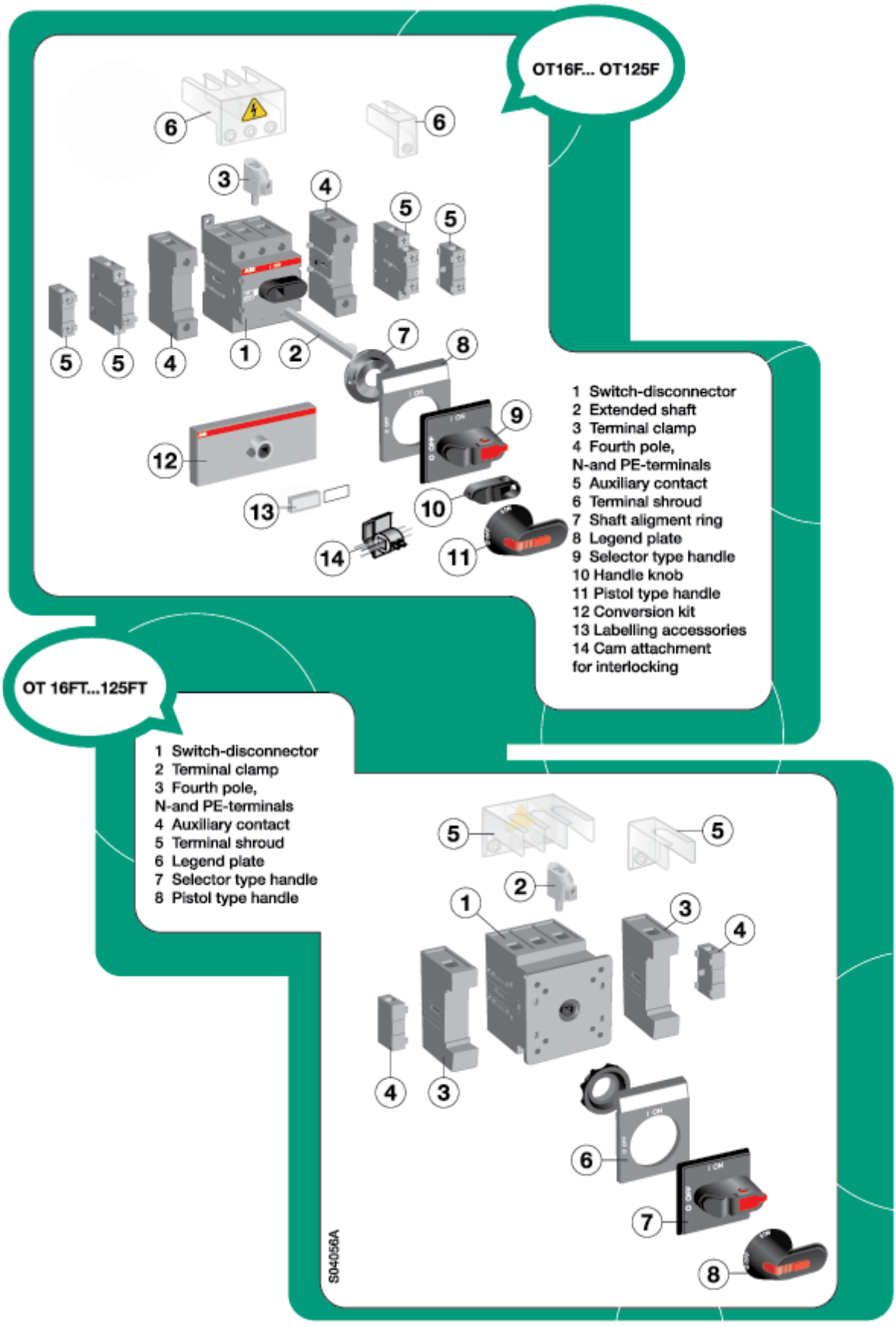
| Number of poles | Ampere rating [A] | Horsepower rating 3-phase [HP] 240V | 480V | 600V | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|---|---|
| 3 | 20 | 5 | 10 | 15 | OT16F3 | 1SCA104811R1001 | 10 | 0.11 |
| 4 | 20 | 5 | 10 | 15 | OT16F4N2 | 1SCA104829R1001 | 10 | 0.14 |
| 3 | 20 | 5 | 10 | 15 | OT16FT3 | 1SCA104838R1001 | 10 | 0.13 |
| 4 | 20 | 5 | 10 | 15 | OT16FT4N2 | 1SCA105711R1001 | 10 | 0.16 |
| 3 | 30 | 7.5 | 15 | 20 | OT25F3 | 1SCA104857R1001 | 10 | 0.11 |
| 4 | 30 | 7.5 | 15 | 20 | OT25F4N2 | 1SCA104886R1001 | 10 | 0.14 |
| 3 | 30 | 7.5 | 15 | 20 | OT25FT3 | 1SCA104884R1001 | 10 | 0.13 |
| 4 | 30 | 7.5 | 15 | 20 | OT25FT4N2 | 1SCA104900R1001 | 10 | 0.16 |
| 3 | 40 | 10 | 20 | 25 | OT40F3 | 1SCA104902R1001 | 10 | 0.11 |
| 4 | 40 | 10 | 20 | 25 | OT40F4N2 | 1SCA104932R1001 | 10 | 0.14 |
| 3 | 40 | 10 | 20 | 25 | OT40FT3 | 1SCA104940R1001 | 10 | 0.13 |
| 4 | 40 | 10 | 20 | 25 | OT40FT4N2 | 1SCA104956R1001 | 10 | 0.16 |
| 3 | 60 | 15 | 30 | 30 | OT63F3 | 1SCA105332R1001 | 10 | 0.27 |
| 4 | 60 | 15 | 30 | 30 | OT63F4N2 | 1SCA105365R1001 | 10 | 0.30 |
| 3 | 60 | 15 | 30 | 30 | OT63FT3 | 1SCA105382R1001 | 10 | 0.28 |
| 4 | 60 | 15 | 30 | 30 | OT63FT4N2 | 1SCA105393R1001 | 10 | 0.35 |
| 3 | 80 | 20 | 40 | 40 | OT80F3 | 1SCA105798R1001 | 10 | 0.27 |
| 4 | 80 | 20 | 40 | 40 | OT80F4N2 | 1SCA105413R1001 | 10 | 0.30 |
| 3 | 80 | 20 | 40 | 40 | OT80FT3 | 1SCA105431R1001 | 10 | 0.28 |
| 4 | 80 | 20 | 40 | 40 | OT80FT4N2 | 1SCA105499R1001 | 10 | 0.35 |
| 3 | 30 | 10 | 20 | 30 | OT30F3 | 1SCA105068R1001 | 10 | 0.36 |
| 4 | 30 | 10 | 20 | 30 | OT30F4N2 | 1SCA108347R1001 | 10 | 0.50 |
| 3 | 60 | 20 | 40 | 40 | OT60F3 | 1SCA105076R1001 | 10 | 0.36 |
| 4 | 60 | 20 | 40 | 40 | OT60F4N2 | 1SCA108348R1001 | 10 | 0.50 |
| 3 | 100 | 30 | 50 | 50 | OT100F3 | 1SCA105004R1001 | 10 | 0.36 |
| 4 | 100 | 30 | 50 | 50 | OT100F4N2 | 1SCA105018R1001 | 10 | 0.50 |
| **Including handle: NEMA 1, 3R, 12, IP65 and shaft** | | | | | | | | |
| 3 | 100 | 40 | 75 | 100 | OT160E3 | 1SCA022257R5950 | 1 | 1.0 |
| 4 | 100 | 40 | 75 | 100 | OT160E4 | 1SCA022259R8060 | 1 | 1.3 |
| 3 | 200 | 75 | 150 | 200 | OT200U03P | 1SCA022709R9920 | 1 | 1.8 |
| 4 | 200 | 75 | 150 | 200 | OT200U04P | 1SCA022710R0610 | 1 | 2.2 |
| 3 | 200 | 75 | 150 | 200 | OT200U12P | 1SCA022752R2010 | 1 | 1.8 |
| 4 | 200 | 75 | 150 | 200 | OT200U22P | 1SCA022741R8880 | 1 | 2.2 |
| 3 | 400 | 125 | 250 | 350 | OT400U03P | 1SCA022718R9670 | 1 | 3.4 |
| 4 | 400 | 125 | 250 | 350 | OT400U04P | 1SCA022719R1900 | 1 | 4.0 |
| 3 | 400 | 125 | 250 | 350 | OT400U12P | 1SCA022754R6960 | 1 | 3.4 |
| 4 | 400 | 125 | 250 | 350 | OT400U22P | 1SCA022762R7290 | 1 | 4.0 |
| 3 | 600 | 200 | 450 | 500 | OT600U03P | 1SCA022718R9830 | 1 | 6.5 |
| 4 | 600 | 200 | 450 | 500 | OT600U04P | 1SCA022719R2200 | 1 | 7.7 |
| 3 | 600 | 200 | 450 | 500 | OT600U12P | 1SCA022753R7710 | 1 | 6.4 |
| 4 | 600 | 200 | 450 | 500 | OT600U22P | 1SCA022753R7890 | 1 | 7.7 |
| 3 | 800 | 250 | 500 | 500 | OT800U03P | 1SCA105665R1001 | 1 | 19 |
| 4 | 800 | 250 | 500 | 500 | OT800U04P | 1SCA105667R1001 | 1 | 22 |
| 3 | 800 | 250 | 500 | 500 | OT800U12P | 1SCA106128R1001 | 1 | 19 |
| 4 | 800 | 250 | 500 | 500 | OT800U22P | 1SCA106125R1001 | 1 | 22 |
| 3 | 1200 | - | - | - | OT1200U03P | 1SCA022860R6910 | 1 | 19 |
| 4 | 1200 | - | - | - | OT1200U04P | 1SCA022860R7120 | 1 | 22 |
| 3 | 1200 | - | - | - | OT1200U12P | 1SCA022871R9270 | 1 | 19 |
| 4 | 1200 | - | - | - | OT1200U22P | 1SCA105654R1001 | 1 | 22 |
| **Including handle, NEMA 1, 3R, 4, 4x, 12, IP65, shaft and busbar connections** | | | | | | | | |
| 3 | 1600 | – | – | – | OETL-NF1600P | 1SCA022282R0690 | 1 | 65 |
| 3 | 2000[1)] | – | – | – | OETL-NF2000P | 1SCA022282R0850 | 1 | 65 |

### Shafts and handles included as standard

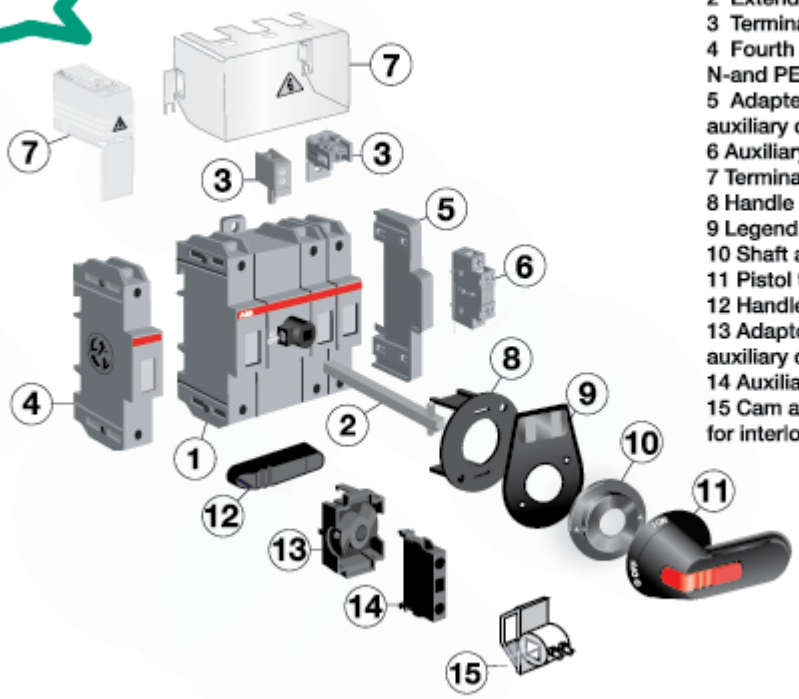
| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|---|---|---|---|
| OT160E | OXP6X210 | OHB65J6 | |
| OT200U_P | OXP6X210 | OHB65J6 | M8x25 |
| OT400U_P | OXP12X185 | OHB95J12 | M10x30 |
| OT600U_P | OXP12X185 | OHB125J12 | M12x40 |
| OT800…1200U_P | OXP12X280 | OHB200J12P | M12x60 |
| OETL-NF1600...2000 | OXP12X325 | YASDA8 | M12x60 |

- **Approvals:**
  - **OT16...80: UL 508, CSA 22-2 # 14**
  - **OT30...1200: UL 98, CSA 22-2 # 4**
  - **OETL-NF: UL98, CSA 22-22 #4**
  - **IEC 60947-3**

[1)] **480 VAC max.**


OT16F... OT125F
1 Switch-disconnector
2 Extended shaft
3 Terminal clamp
4 Fourth pole,
N-and PE-terminals
5 Auxiliary contact
6 Terminal shroud
7 Shaft aligment ring
8 Legend plate
9 Selector type handle
10 Handle knob
11 Pistol type handle
12 Conversion kit
13 Labelling accessories
14 Cam attachment
for interlocking
OT 16FT...125FT
1 Switch-disconnector
2 Terminal clamp
3 Fourth pole,
N-and PE-terminals
4 Auxiliary contact
5 Terminal shroud
6 Legend plate
7 Selector type handle
8 Pistol type handle
S04056A

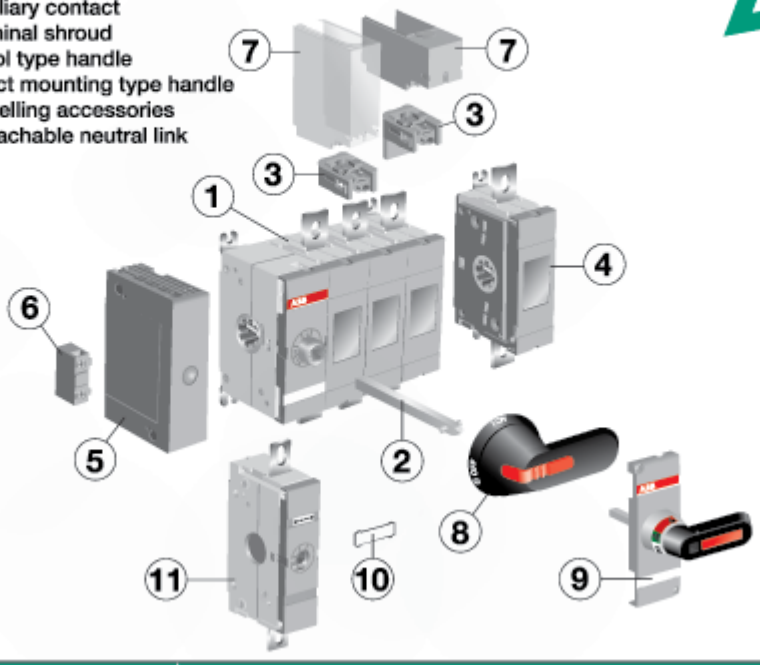
## OT160




1 Switch-disconnector
2 Extended shaft
3 Terminal clamp
4 Fourth pole,
N-and PE-terminals
5 Adapter for
auxiliary contact blocks
6 Auxiliary contact
7 Terminal shroud
8 Handle support
9 Legend plate
10 Shaft aligment ring
11 Pistol type handle
12 Handle knob
13 Adapter for
auxiliary contact blocks
14 Auxiliary contact
15 Cam attachment
for interlocking

## OT200...2500

1 Switch-disconnector
2 Extended shaft
3 Terminal clamp
4 Fourth pole
5 Module for auxiliary contact
6 Auxiliary contact
7 Terminal shroud
8 Pistol type handle
9 Direct mounting type handle
10 Labelling accessories
11 Detachable neutral link

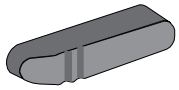


S00684A
OHBS 1_

S01472A
OHBS 12

S01368A
OHRS 2_

S01369A
OHRS 3_


S00535A
OHBS 9_

S00535A
YAST 1

S01613A
OHB 13

## Optional handles, base and DIN-rail mounted switches

### Handle knobs

Mounting directly to the switch, no shaft needed.
Padlockable with one padlock with bail diameter 5 mm, see the table below

| Colour | Handle length [mm] | Suitable for switches | Type | Order number | Units/ type [pcs] |
|---|---|---|---|---|---|
| Black | 31 | OT16...80F3/F4 | OHBS1 | 1SCA109087R1001 | 10 |
| Black | 31 | OT16...80F3/F4 | OHBS1/1 | 1SCA109088R1001 | 1 |
| Red | 31 | OT16...80F3/F4 | OHRS1 | 1SCA109095R1001 | 10 |
| Red | 31 | OT16...80F3/F4 | OHRS1/1 | 1SCA109096R1001 | 1 |
| Black | 37 | OT16…40F3/F4 | OHBS12 | 1SCA108252R1001 | 10 |
| Red | 37 | OT16…40F3/F4 | OHRS12 | 1SCA108253R1001 | 10 |
| Black | 40 | OT63...125F3/F4 OT16...40F6/F8 | OHBS2 | 1SCA109089R1001 | 10 |
| Black | 40 | OT63...125F3/F4 OT16...40F6/F8 | OHBS2/1 | 1SCA109090R1001 | 1 |
| Red | 40 | OT63...125F3/F4 OT16...40F6/F8 | OHRS2 | 1SCA108598R1001 | 10 |
| Red | 40 | OT63...125F3/F4 OT16...40F6/F8 | OHRS2/1 | 1SCA108599R1001 | 1 |
| Black | 39 | OT16...125F3/F4 OT16...40F6/F8 | OHBS3 | 1SCA108320R1001 | 10 |
| Black | 39 | OT16...125F3/F4 OT16...40F6/F8 | OHBS3/1 | 1SCA108319R1001 | 1 |
| Red | 39 | OT16...125F3/F4 OT16...40F6/F8 | OHRS3 | 1SCA108667R1001 | 10 |
| Red | 39 | OT16...125F3/F4 OT16...40F6/F8 | OHRS3/1 | 1SCA108688R1001 | 1 |
| Black | 72 | OT63...125F6/F8 | OHBS9 | 1SCA108665R1001 | 10 |
| Black | 72 | OT63...125F6/F8 | OHBS9/1 | 1SCA108689R1001 | 1 |
| Red | 72 | OT63...125F6/F8 | OHRS9 | 1SCA108666R1001 | 10 |
| Red | 72 | OT63...125F6/F8 | OHRS9/1 | 1SCA108690R1001 | 1 |
| Black | 72 | OT160 | YAST1 | 1SCA022301R5350 | 10 |
| Mounting directly to the switch, a 6 mm shaft can be inserted through the handle | | | | | |
| Black | 72 | OT160 | OHB13 | 1SCA022712R4620 | 10 |

| Switch type | Handle type | | | |
|---|---|---|---|---|
| | Non-padlockable | | Padlockable | |
| OT16...40F3/F4 | OHBS1_ , | OHRS1_ | OHBS12_, | OHRS12_ |
| | OHBS3_ , | OHRS3_ | | |
| OT16...40F6/F8 + OWP6D40 | OHBS3_ , | OHRS3_ | OHBS2_ , | OHRS2_ |
| OT63...125F3/F4 | OHBS3_ , | OHRS3_ | OHBS2_ , | OHRS2_ |
| OT63...80F6/F8+ OWP6D80 | OHBS9_ , | OHRS9_ | | |
| OT100...125F6/F8 + OWP6D125 | OHBS9_ , | OHRS9_ | | |
| OT160 | YAST1 | | | |
| OT160 | OHB13 | | | |

| Handle type | Shaft through the handle | 45 mm cut-out enable* |
|---|---|---|
| OHBS1_ , OHRS1_ | No | Yes |
| OHBS2_ , OHRS2_ | No | Yes |
| OHBS3_ , OHRS3_ | No | Yes |
| OHBS9_ , OHRS9_ | No | No |
| OHBS12, OHRS12 | Yes | Yes |
| YAST1 | No | No |
| OHB13 | Yes | No |

*) in I-position the handle shall remain within the cut-out height

OH_ 1_

OH_ 3_

OH_ 2_

OHBS2_AJEH

OZ331_B

OZ331_RY

OZ371PB

## Optional handles, base and DIN-rail mounted switches

for shaft diameter 6 mm, door drilling 22.5 mm. The type and the ordering numbers are for one piece.

### Selector type handles

Indication I-O and ON-OFF

| Colour | Suitable for switches | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **IP 54 handles, NEMA 1** | | | | | |
| Black | OT16...80F | OHBS1AH | 1SCA102680R1001 | 150 | |
| Yellow-red | OT16...80F | OHYS1AH | 1SCA105290R1001 | 150 | |
| Silver | OT16...80F | OHSS1AH | 1SCA105274R1001 | 150 | |
| Grey | OT16...80F | OHGS1AH | 1SCA105261R1001 | 150 | |
| **IP 54 handles, door interlock in ON-position, NEMA 1** | | | | | |
| Black | OT16...80F | OHBS1AH1 | 1SCA105210R1001 | 150 | |
| Yellow-red | OT16...80F | OHYS1AH1 | 1SCA105291R1001 | 150 | |
| Silver | OT16...80F | OHSS1AH1 | 1SCA105275R1001 | 150 | |
| Grey | OT16...80F | OHGS1AH1 | 1SCA105262R1001 | 150 | |
| **IP 54 handles, padlockable with one padlock with bail diameter 5...6.3 mm, NEMA 1** | | | | | |
| Black | OT16...125F | OHBS3AH | 1SCA105234R1001 | 150 | |
| Yellow-red | OT16...125F | OHYS3AH | 1SCA105325R1001 | 150 | |
| Silver | OT16...125F | OHSS3AH | 1SCA105283R1001 | 150 | |
| Grey | OT16...125F | OHGS3AH | 1SCA105270R1001 | 150 | |
| **IP 54 handles, padlockable with one padlock with bail diameter 5...6.3 mm, door interlock in ON-position, NEMA 1** | | | | | |
| Black | OT16...125F | OHBS3AH1 | 1SCA105235R1001 | 150 | |
| Yellow-red | OT16...125F | OHYS3AH1 | 1SCA105326R1001 | 150 | |
| Silver | OT16...125F | OHSS3AH1 | 1SCA105284R1001 | 150 | |
| Grey | OT16...125F | OHGS3AH1 | 1SCA105271R1001 | 150 | |
| **IP 65 handles, padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position, defeatable, NEMA 1, 3R, 12** | | | | | |
| Black | OT16...125F | OHBS2AJ | 1SCA105213R1001 | 120 | |
| Yellow-red | OT16...125F | OHYS2AJ | 1SCA105296R1001 | 120 | |
| Silver | OT16...125F | OHSS2AJ | 1SCA105278R1001 | 120 | |
| Grey | OT16...125F | OHGS2AJ | 1SCA105265R1001 | 120 | |
| **IP 65 handles, padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position, NEMA 1, 3R, 12** | | | | | |
| Black | OT16...125F | OHBS2AJ1 | 1SCA105215R1001 | 120 | |
| Yellow-red | OT16...125F | OHYS2AJ1 | 1SCA105297R1001 | 120 | |
| Silver | OT16...125F | OHSS2AJ1 | 1SCA105279R1001 | 120 | |
| Grey | OT16...125F | OHGS2AJ1 | 1SCA105266R1001 | 120 | |
| **Handle with metal hasp** | | | | | |
| IP65 handles, NEMA 1, 3R, 12, padlockable with max. 3 padlocks, door interlock in the ON-position, defeatable. | | | | | |
| Black | OT16...125F | OHBS2AJEH | 1SCA108230R1001 | 120 | |

### Round padlockable handles

Padlockable in 0-position, max 3 padlocks with max 8 mm hasp diameter.

| | | | | | |
|---|---|---|---|---|---|
| **One hole mounting handle, IP65, NEMA 4X outdoor, size 66x66** | | | | | |
| Black | OT16...125F_ | OZ331SPB | 1SCA112983R1001 | 10 | 0.05 |
| Red-yellow | OT16...125F_ | OZ331SPRY | 1SCA113097R1001 | 10 | 0.05 |
| **IP67, IP69K, NEMA 4X, size 66x66** | | | | | |
| Black | OT16...125F_ | OZ331P67B | 1SCA111427R1001 | 10 | 0.04 |
| Red-yellow | OT16...125F_ | OZ331P67RY | 1SCA111429R1001 | 10 | 0.04 |
| **Handles with door coupling in ON-position, not defeatable, IP65, NEMA 4X, size 66x66** | | | | | |
| Shaft alignment ring for OZ371P_ handle, see page 31. | | | | | |
| Black | OT16...125F_ | OZ371PB | 1SCA111684R1001 | 10 | 0.05 |
| Red-yellow | OT16...125F_ | OZ371PRY | 1SCA111685R1001 | 10 | 0.05 |

S00936A

OHY_

S00601A

OHB_

S00469A

OHB_

S02195A

OHB_P

## Optional handles, base and DIN-rail mounted switches

### Pistol type handles

OH_ handles: IP 65, NEMA 1,3R, 12, padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation. The type and the ordering numbers are for one piece.

| Colour | Handle length [mm] | Suitable for switches | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| **For shaft diameter 6 mm, indication in types OHB and OHY: I-0, ON-OFF, in types OHG: I-0** | | | | | | |
| Black | 45 | OT16...125F | OHB45J6 | 1SCA022380R8770 | 100 | 0.10 |
| Yellow-red | 45 | OT16...125F | OHY45J6 | 1SCA022380R8930 | 100 | 0.10 |
| Grey | 45 | OT16...125F | OHG45J6 | 1SCA022380R8850 | 100 | 0.10 |
| **For shaft diameter 6 mm, indication in types OHB and OHY: I-O, ON-OFF, in types OHG: I-O.** | | | | | | |
| Black | 65 | OT160...250_ | OHB65J6 | 1SCA022380R9660 | 100 | 0.12 |
| Yellow-red | 65 | OT160...250_ | OHY65J6 | 1SCA022380R9820 | 100 | 0.12 |
| Grey | 65 | OT160...250_ | OHG65J6 | 1SCA022380R9740 | 100 | 0.12 |
| Black | 80 | OT160...250_ | OHB80J6 | 1SCA022381R0240 | 100 | 0.14 |
| Yellow-red | 80 | OT160...250_ | OHY80J6 | 1SCA022381R0410 | 100 | 0.14 |
| Grey | 80 | OT160...250_ | OHG80J6 | 1SCA022381R0320 | 100 | 0.14 |
| **For shaft diameter 6 mm, indication: Test-OFF-ON/Test-0-I** | | | | | | |
| Black | 65 | OT200...250_ | OHB65J6T | 1SCA022399R8110 | 100 | 0.12 |
| Yellow-red | 65 | OT200...250_ | OHY65J6T | 1SCA022456R9540 | 100 | 0.12 |
| **For shaft diameter 12 mm, indication OHB and OHY: I-0, ON-OFF, in types OHG: I-0** | | | | | | |
| Black | 95 | OT315...400_ | OHB95J12 | 1SCA022381R0830 | 90 | 0.16 |
| Yellow-red | 95 | OT315...400_ | OHY95J12 | 1SCA022381R1050 | 90 | 0.16 |
| Grey | 95 | OT315...400_ | OHG95J12 | 1SCA022381R0910 | 90 | 0.16 |
| Black | 125 | OT630...800_ | OHB125J12 | 1SCA022381R1560 | 90 | 0.17 |
| Yellow-red | 125 | OT630...800_ | OHY125J12 | 1SCA022381R1720 | 90 | 0.17 |
| Grey | 125 | OT630...800_ | OHG125J12 | 1SCA022381R1640 | 90 | 0.17 |
| Black | 145 | OT630...800 | OHB145J12 | 1SCA022381R2110 | 90 | 0.17 |
| Yellow-red | 145 | OT630...800 | OHY145J12 | 1SCA022381R2370 | 90 | 0.17 |
| Grey | 145 | OT630...800 | OHG145J12 | 1SCA022381R2290 | 90 | 0.17 |
| Black | 2x150 | OT1000…2500 | OHB150J12P | 1SCA022865R9430 | 50 | 0.17 |
| Yellow-red | 2x150 | OT1000…2500 | OHY150J12P | 1SCA101586R1001 | 50 | 0.17 |
| Black | 2x200 | OT1000...2500 | OHB200J12P | 1SCA022865R9510 | 50 | 0.40 |
| Yellow-red | 2x200 | OT1000...2500 | OHY200J12P | 1SCA101587R1001 | 50 | 0.40 |
| Black | 275 | OETL3150 | OHB275J12 | 1SCA022381R2960 | 90 | 0.20 |
| Yellow-red | 275 | OETL3150 | OHY275J12 | 1SCA022381R3180 | 90 | 0.20 |
| Grey | 275 | OETL3150 | OHG275J12 | 1SCA022381R3000 | 90 | 0.20 |
| **For shaft diameter 12 mm, indication: Test-OFF-ON/Test-0-I** | | | | | | |
| Black | 95 | OT315...400 | OHB95J12T | 1SCA022736R1750 | 90 | 0.16 |
| Yellow-red | 95 | OT315...400 | OHY95J12T | 1SCA022736R1910 | 90 | 0.16 |
| Black | 125 | OT630…800 | OHB125J12T | 1SCA022652R2220 | 90 | 0.17 |
| Yellow-red | 125 | OT630…800 | OHY125J12T | 1SCA022652R2310 | 90 | 0.17 |
| Black | 145 | OT630...800 | OHB145J12T | 1SCA022652R2570 | 90 | 0.17 |
| Yellow-red | 145 | OT630...800 | OHY145J12T | 1SCA022652R2650 | 90 | 0.17 |
| Black | 175 | OT630...800 | OHB175J12T | 1SCA022708R0740 | 90 | 0.18 |
| Yellow-red | 175 | OT630...800 | OHY175J12T | 1SCA111508R1001 | 90 | 0.18 |
| Black | 2x200 | OT1000...2500 | OHB200J12PT | 1SCA106510R1001 | 50 | 0.40 |
| Yellow-red | 2x200 | OT1000...2500 | OHY200J12PT | 1SCA111512R1001 | 50 | 0.40 |
| **For shaft diameter 12 mm, indication: I-0-II** | | | | | | |
| Black | 275 | OETL3150 | OHB275J12E011 | 1SCA022460R7220 | 90 | 0.19 |
| Yellow-red | 275 | OETL3150 | OHY275J12E011 | 1SCA022460R7310 | 90 | 0.19 |
| Grey | 275 | OETL3150 | OHG275J12E011 | 1SCA022460R7490 | 90 | 0.19 |

- **Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position. This can be defeated in IP 65 types to allow authorized personnel access for inspection.**
- **NEMA 4, 4x pistol handles available on request.**
- **Handles padlockable in all positions available on request.**

S01997A

OTV_

S00097A

YASDA_

S02140A

OHM_

S03010A

OHM_P

S07004A

OH_E00S

## Optional handles, base mounted switches

### Handles for direct mounting

| Colour | Handle length [mm] | Suitable for switches | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| Indication Test-OFF-ON/Test-O-I. Padlockable with three padlocks in OFF-position. Includes shaft and mechanism cover. | | | | | | |
| Black | 65 | OT200…250_K | OTV250EK | 1SCA022763R2700 | 1 | 0.10 |
| Yellow-red | 65 | OT200…250_K | OTVY250EK | 1SCA022772R7910 | 1 | 0.10 |
| Black | 95 | OT315…400_K | OTV400EK | 1SCA022763R2960 | 1 | 0.20 |
| Yellow-red | 95 | OT315…400_K | OTVY400EK | 1SCA022772R7830 | 1 | 0.20 |
| Black | 125 | OT630…800_K | OTV800EK | 1SCA022804R6340 | 1 | 0.30 |
| Yellow-red | 125 | OT630...800_K | OTVY800EK | 1SCA022810R2780 | 1 | 0.30 |
| Black | 2x200 | OT1000…2500_K | OTV1000EK | 1SCA106608R1001 | 1 | |

### Metallic handles

IP65, NEMA 1, 3R, 4, 4x, 12, padlockable with 3 padlocks in OFF- position, door interlock in ON-position.

| | | | | | | |
|---|---|---|---|---|---|---|
| **For shaft diameter 12 mm, indication I-0** | | | | | | |
| Black | 220 | OETL3150 | YASDA7 | 1SCA022071R3010 | 1 | 0.68 |
| Black | 320 | OT1000…2500 | YASDA35 | 1SCA104400R1001 | 1 | 0.80 |
| **For shaft diameter 12 mm, indication ON-OFF** | | | | | | |
| Black | 220 | OETL3150 | YASDA8 | 1SCA022071R3270 | 1 | 0.68 |

IP44, padlockable with 3 padlocks in OFF- position, door interlock in I- and II- position.

| | | | | | | |
|---|---|---|---|---|---|---|
| **For shaft diameter 12 mm, indication I-0-II** | | | | | | |
| Black | 220 | OETL3150 | YASDA21 | 1SCA022098R9420 | 1 | 0.68 |
| Black | 320 | OETL3150 | YASDA6 | 1SCA022071R2890 | 1 | 0.80 |

### Stainless steel handles

Stainless steel handles, indication I-O/ON-OFF, padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position, IP66 (NEMA 4X)

| Colour | Handle length [mm] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **For shaft diameter 6 mm** | | | | | |
| Grey | 65 | OHM65L6 | 1SCA022739R1070 | 1 | 0.73 |
| **For shaft diameter 12 mm** | | | | | |
| Grey | 125 | OHM125L12 | 1SCA022739R1150 | 1 | 0.76 |
| Grey | 175 | OHM175L12 | 1SCA022739R1230 | 1 | 0.83 |
| Grey | 275 | OHM275L12 | 1SCA022832R4840 | 1 | 0.96 |
| Grey | 2x200 | OHM200L12P | 1SCA104439R1001 | 1 | 2.0 |

### For side operated switch disconnectors, IP 65, Nema type 1, 3R, 12

For mounting on the side of the enclosure. Padlockable with three padlocks in the OFF-position, door interlock in the ON-position, IP 65. The position indications are rotated 90°. If the handle is mounted on the front of the door, a standard handle can be used as well.

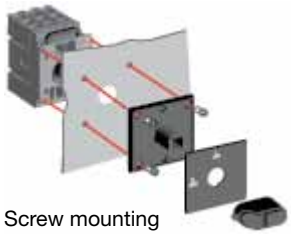
| Colour | Handle length [mm] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **For shaft diameter 6 mm** | | | | | |
| Plastic handles, black and red-yellow: I-O/ON-OFF, grey: I-O. | | | | | |
| Black | 65 | OHB65J6E00S | 1SCA022382R9850 | 1 | 0.12 |
| Red-yellow | 65 | OHY65J6E00S | 1SCA022382R9930 | 1 | 0.12 |
| Grey | 65 | OHG65J6E00S | 1SCA022383R4510 | 1 | 0.12 |
| Plastic handles, black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O. | | | | | |
| Black | 65 | OHB65J6TE00S | 1SCA109016R1001 | 1 | 0.12 |
| Red-yellow | 65 | OHY65J6TE00S | 1SCA022688R0140 | 1 | 0.12 |
| Grey | 65 | OHG65J6TE00S | 1SCA109014R1001 | 1 | 0.12 |
| **For shaft diameter 12 mm** | | | | | |
| Plastic handles, indication I-O/ON-OFF | | | | | |
| Black | 145 | OHB145J12E00S | 1SCA022679R9700 | 1 | 0.17 |

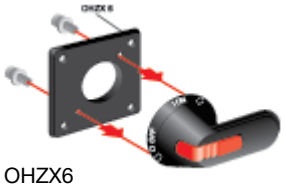
S00395A
OH_1_

S00687A
OH_3_

S00396A
OH_2_

S00268A
Snap-on mounting


S00267A
Screw mounting


S01612A
OHZX6

## Optional handles, door mounted switches

### Selector type handles

**Indication I-O and ON-OFF.** No separate shaft needed.
The type and the ordering numbers are for one piece.

| Colour | Suitable for switches | Type | Order number | Delivery batch [pcs] |
|---|---|---|---|---|
| **Snap-on mounting, door drilling 22,5 mm** | | | | |
| ***No padlocking, IP 54, NEMA 1*** | | | | |
| Black | OT16...40FT | OHBS1PH | 1SCA105211R1001 | 150 |
| Yellow-red | OT16...40FT | OHYS1PH | 1SCA105294R1001 | 150 |
| Silver | OT16...40FT | OHSS1PH | 1SCA105276R1001 | 150 |
| Grey | OT16...40FT | OHGS1PH | 1SCA105263R1001 | 150 |
| ***Padlockable with one padlock, IP 54, NEMA 1*** | | | | |
| Black | OT16...40FT | OHBS3PH | 1SCA105236R1001 | 150 |
| Yellow-red | OT16...40FT | OHYS3PH | 1SCA105327R1001 | 150 |
| Silver | OT16...40FT | OHSS3PH | 1SCA105285R1001 | 150 |
| Grey | OT16...40FT | OHGS3PH | 1SCA105272R1001 | 150 |
| ***Padlockable with max. 3 padlocks, IP 65, NEMA 1, 3R, 12*** | | | | |
| Black | OT16...40FT | OHBS2PJ | 1SCA105231R1001 | 120 |
| Yellow-red | OT16...40FT | OHYS2PJ | 1SCA105322R1001 | 120 |
| Silver | OT16...40FT | OHSS2PJ | 1SCA105280R1001 | 120 |
| Grey | OT16...40FT | OHGS2PJ | 1SCA105268R1001 | 120 |
| **Screw mounting, hole distance 36 mm** | | | | |
| ***No padlocking, IP 54, NEMA 1*** | | | | |
| Black | OT16...80FT | OHBS1RH | 1SCA105212R1001 | 150 |
| Yellow-red | OT16...80FT | OHYS1RH | 1SCA105295R1001 | 150 |
| Silver | OT16...80FT | OHSS1RH | 1SCA105277R1001 | 150 |
| Grey | OT16...80FT | OHGS1RH | 1SCA105264R1001 | 150 |
| ***Padlockable with one padlock, IP 54, NEMA 1*** | | | | |
| Black | OT16...80FT | OHBS3RH | 1SCA105237R1001 | 150 |
| Yellow-red | OT16...80FT | OHYS3RH | 1SCA105328R1001 | 150 |
| Silver | OT16...80FT | OHSS3RH | 1SCA105286R1001 | 150 |
| Grey | OT16...80FT | OHGS3RH | 1SCA105273R1001 | 150 |
| ***Padlockable with max. 3 padlocks, IP 65, hole distance 36/48 mm, NEMA 1, 3R, 12*** | | | | |
| Black | OT16...125FT | OHBS2RJ | 1SCA105232R1001 | 120 |
| Yellow-red | OT16...125FT | OHYS2RJ | 1SCA105323R1001 | 120 |
| Silver | OT16...125FT | OHSS2RJ | 1SCA105281R1001 | 120 |
| Grey | OT16...125FT | OHGS2RJ | 1SCA105269R1001 | 120 |

### Pistol handle mounting kit for OT 100...125 FT_ switches

| | | | | |
|---|---|---|---|---|
| **Pistol handle is not included** | | | | |
| Black | | OHZX6 | 1SCA022559R5670 | 10 |

- **Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position. This can be defeated in IP 65 types to allow authorized personnel access for inspection.**
- **NEMA 4, 4x pistol handles available on request.**
- **Handles padlockable in all positions are available on request.**

S00657A

OPY_

S01433A

OPB 3
OPY 3

S01434A

OPX 3

S01435A

OPB 3 + OPX 3 + OH_

S00937A

OHZX5

S00681A

ST

## Legend plates for selector type handles

| Description | Type | Order number | Units/ type [pcs] |
|---|---|---|---|
| **Plain plates for OH 1_ and OH 3_handles.** | | | |
| Black | OPBS1 | 1SCA111519R1001 | 1 |
| Yellow | OPYS1 | 1SCA111528R1001 | 1 |
| Silver | OPSS1 | 1SCA111523R1001 | 1 |
| Grey | OPGS1 | 1SCA111563R1001 | 1 |
| **Plain plates for OH 2_ handles.** | | | |
| Black | OPB2 | 1SCA022353R4110 | 1 |
| Yellow | OPY2 | 1SCA022353R4200 | 1 |
| Silver | OPS2 | 1SCA022353R4460 | 1 |
| Grey | OPG2 | 1SCA022353R4380 | 1 |
| **Printed plates for OH 1_ and OH3_ handles. Text: MAIN SWITCH.** | | | |
| Black | OPBS1EN1 | 1SCA111520R1001 | 1 |
| Yellow | OPYS1EN1 | 1SCA111530R1001 | 1 |
| Silver | OPSS1EN1 | 1SCA111525R1001 | 1 |
| Grey | OPGS1EN1 | 1SCA111526R1001 | 1 |
| **Printed plates for OH 2_ handles. Text: MAIN SWITCH.** | | | |
| Black | OPB2EN1 | 1SCA022400R2070 | 1 |
| Yellow | OPY2EN1 | 1SCA022400R2740 | 1 |
| Silver | OPS2EN1 | 1SCA022400R2230 | 1 |
| Grey | OPG2EN1 | 1SCA022400R2310 | 1 |

## Legend plates for pistol type handles

| Holder | Text | Type | Order number | Units/ type [pcs] |
|---|---|---|---|---|
| Black | | OPB3 | 1SCA022679R3410 | 1 |
| Yellow | | OPY3 | 1SCA022695R0450 | 1 |
| **Lettering plate** | | | | |
| Silver | *Blanco* | OPX3 | 1SCA022679R3500 | 1 |
| Silver | Pääkytkin | OPX3FI1 | 1SCA022695R0530 | 1 |
| Silver | Main Switch | OPX3EN1 | 1SCA022695R0610 | 1 |
| Silver | Hauptschalter | OPX3DE1 | 1SCA022695R0700 | 1 |
| Silver | Huvudbrytare | OPX3SE1 | 1SCA022695R0880 | 1 |
| Silver | *Customer`s own text,* | OPX3/TEXT | 1SCA022696R6370 | 1 |

## Handle support

### Suitable for OT 160

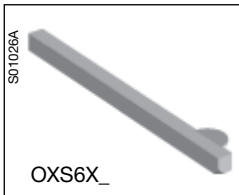
For direct mounting of OH_65, 80 handles on the switch mechanism.
The type and the ordering numbers are for one piece.

| Colour | Height from the bottom of the switch | Type | Order number | Delivery batch [pcs] |
|---|---|---|---|---|
| Black | 83 mm | OHZX5 | 1SCA22467R5060 | 10 |

## Labelling accessories

Suitable for OT63F, OT80F, OT100F and OT125F

| Description | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| Label carrier, snap-on fixing | ST | 1SCA022407R8210 | 10 | 0.01 |
| Description label, in a sheet 250 labels | ST-E | 1SCA022407R8300 | 1 | 0.01 |

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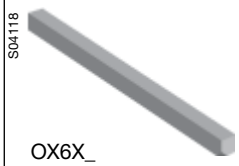


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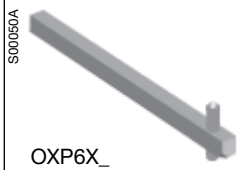


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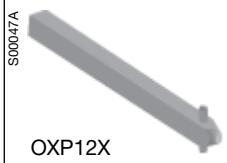



OXP12X

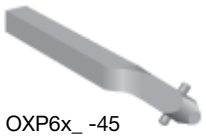
## Shafts

The type and ordering numbers are for one piece

| Shaft length [mm] | H [mm] | Suitable for switches | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| **For selector type handles. Shaft diameter 6 mm.** | | | | | | |
| 85 | See | OT16...125F | OXS6X85 | 1SCA101647R1001 | 10 | 0.02 |
| 105 | dimension | OT16...125F | OXS6X105 | 1SCA108043R1001 | 10 | 0.02 |
| 120 | drawings | OT16...125F | OXS6X120 | 1SCA101654R1001 | 10 | 0.03 |
| 130 | | OT16...125F | OXS6X130 | 1SCA101655R1001 | 10 | 0.03 |
| 160 | | OT16...125F | OXS6X160 | 1SCA101656R1001 | 10 | 0.04 |
| 180 | | OT16...125F | OXS6X180 | 1SCA101659R1001 | 10 | 0.04 |
| 250 | | OT16...125F | OXS6X250 | 1SCA101660R1001 | 10 | 0.05 |
| 330 | | OT16...125F | OXS6X330 | 1SCA101661R1001 | 10 | 0.05 |
| **For round padlockable type handles. Shaft diameter 6 mm.** | | | | | | |
| 60 | See | OT16...125F | OX6X60 | 1SCA111459R1001 | 10 | 0.02 |
| 85 | dimension | OT16...125F | OX6X85 | 1SCA111274R1001 | 10 | 0.02 |
| 105 | drawings | OT16...125F | OX6X105 | 1SCA111930R1001 | 10 | 0.02 |
| 115 | | OT16...125F | OX6X115 | 1SCA111931R1001 | 10 | 0.03 |
| 130 | | OT16...125F | OX6X130 | 1SCA111460R1001 | 10 | 0.03 |
| 155 | | OT16...125F | OX6X155 | 1SCA111275R1001 | 10 | 0.04 |
| 200 | | OT16...125F | OX6X200 | 1SCA111932R1001 | 10 | 0.04 |
| 300 | | OT16...125F | OX6X300 | 1SCA111933R1001 | 10 | 0.05 |
| **For pistol type handles. Shaft diameter 6 mm.** | | | | | | |
| 150 | See | OT16...125F | OXP6X150 | 1SCA022295R5600 | 10 | 0.05 |
| 170 | dimension | OT16...125F | OXP6X170 | 1SCA108224R1001 | 10 | 0.05 |
| 265 | drawings | OT16...125F | OXP6X265 | 1SCA108225R1001 | 10 | 0.08 |
| 400 | | OT16...125F | OXP6X400 | 1SCA108226R1001 | 10 | 0.12 |
| **Shaft diameter 6 mm [1)]** | | | | | | |
| 130 | 105 ... 135 | OT160 | OXP6X130 | 1SCA022057R0570 | 10 | 0.04 |
| 150 | 125 ... 155 | OT160 | OXP6X150 | 1SCA022295R5600 | 10 | 0.05 |
| 210 | 185 ... 215 | OT160 | OXP6X210 | 1SCA022295R6080 | 10 | 0.06 |
| 130 | 109…174 | OT200...250_ | OXP6X130 | 1SCA022057R0570 | 10 | 0.04 |
| 150 | 129…194 | OT200...250_ | OXP6X150 | 1SCA022295R5600 | 10 | 0.05 |
| 161 | 140...205 | OT200...250_ | OXP6X161 | 1SCA022067R1760 | 10 | 0.05 |
| 210 | 189…254 | OT200...250_ | OXP6X210 | 1SCA022295R6080 | 10 | 0.06 |
| 290 | 269…334 | OT200...250_ | OXP6X290 | 1SCA022042R6370 | 10 | 0.08 |
| **Shaft diameter 12 mm** | | | | | | |
| 166 | 146…226 | OT315...400_ | OXP12X166 | 1SCA022325R7100 | 1 | 0.20 |
| 185 | 165…245 | OT315...400_ | OXP12X185 | 1SCA022325R6710 | 1 | 0.20 |
| 250 | 230…310 | OT315...400_ | OXP12X250 | 1SCA022325R6980 | 1 | 0.28 |
| 280 | 260…340 | OT315...400_ | OXP12X280 | 1SCA022137R5140 | 1 | 0.30 |
| 325 | 305…385 | OT315...400_ | OXP12X325 | 1SCA022042R5810 | 1 | 0.36 |
| 395 | 445…525 | OT315...400_ | OXP12X395 | 1SCA022042R5990 | 1 | 0.43 |
| 465 | 439…519 | OT315...400_ | OXP12X465 | 1SCA022042R6020 | 1 | 0.51 |
| 535 | 515...595 | OT315...400_ | OXP12X535 | 1SCA022042R6110 | 1 | 0.59 |
| 250 | 230…345 | OT630...800_ | OXP12X250 | 1SCA022325R6980 | 1 | 0.28 |
| 280 | 260…375 | OT630...800_ | OXP12X280 | 1SCA022137R5140 | 1 | 0.30 |
| 325 | 305…420 | OT630...800_ | OXP12X325 | 1SCA022042R5810 | 1 | 0.36 |
| 395 | 375…490 | OT630...800_ | OXP12X395 | 1SCA022042R5990 | 1 | 0.43 |
| 465 | 445…560 | OT630...800_ | OXP12X465 | 1SCA022042R6020 | 1 | 0.51 |
| 535 | 515…630 | OT630...800_ | OXP12X535 | 1SCA022042R6110 | 1 | 0.59 |
| 250 | 226…355 | OT1000…2500 | OXP12X250 | 1SCA022325R6980 | 1 | 0.28 |
| 280 | 256…385 | OT1000…2500[2)] | OXP12X280 | 1SCA022137R5140 | 1 | 0.30 |
| 325 | 301…430 | OT1000…2500[2)] | OXP12X325 | 1SCA022042R5810 | 1 | 0.36 |
| 395 | 371…500 | OT1000…2500[2)] | OXP12X395 | 1SCA022042R5990 | 1 | 0.43 |
| 465 | 441…570 | OT1000…2500[2)] | OXP12X465 | 1SCA022042R6020 | 1 | 0.51 |
| 535 | 511…640 | OT1000…2500[2)] | OXP12X535 | 1SCA022042R6110 | 1 | 0.59 |
| 325 | 340…535 | OETL3150 | OXP12X325 | 1SCA022042R5810 | 1 | 0.36 |
| 395 | 410…605 | OETL3150 | OXP12X395 | 1SCA022042R5990 | 1 | 0.43 |
| 465 | 480...675 | OETL3150 | OXP12X465 | 1SCA022042R6020 | 1 | 0.51 |
| 535 | 550...745 | OETL3150 | OXP12X535 | 1SCA022042R6110 | 1 | 0.59 |

[1)] Longer shafts on request

[2)] Wide versions OT1000-1600W_
- with shafts over 280 mm, shaft tube OXT20x210X must be used, see page 31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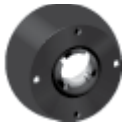
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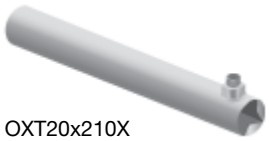
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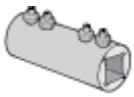
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OESAZX 167

S00670C
OETL ZK 19

## Shafts

Twisted shafts for pistol type handles, the shaft position is rotated 45 degrees.
The type and the ordering numbers are for one piece.

| Shaft length [mm] | H [mm] | Suitable for switches | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|
| **For pistol type handles. Shaft diameter 6 mm.** | | | | | | |
| 150 | See | OT16...125F | OXP6X150-45 | 1SCA022294R4400 | 10 | 0.05 |
| 170 | dimension | OT16...125F | OXP6X170-45 | 1SCA108227R1001 | 10 | 0.05 |
| 265 | drawings | OT16...125F | OXP6X265-45 | 1SCA108228R1001 | 10 | 0.08 |
| 400 | | OT16...125F | OXP6X400-45 | 1SCA108229R1001 | 10 | 0.12 |
| 130 | 109...174 | OT200...250_ | OXP6X130-45 | 1SCA022355R9110 | 10 | 0.04 |
| 150 | 129...194 | OT200...250_ | OXP6X150-45 | 1SCA022294R4400 | 10 | 0.05 |
| 210 | 189...254 | OT200...250_ | OXP6X210-45 | 1SCA022294R4230 | 10 | 0.06 |
| 290 | 269...334 | OT200...250_ | OXP6X290-45 | 1SCA022304R4290 | 10 | 0.08 |
| **Shaft diameter 12 mm** | | | | | | |
| 250 | 230...310 | OT315...400_ | OXP12X250-45 | 1SCA022293R9400 | 1 | 0.28 |
| 280 | 260...340 | OT315...400_ | OXP12X280-45 | 1SCA022382R0800 | 1 | 0.30 |
| 325 | 305...385 | OT315...400_ | OXP12X325-45 | 1SCA022304R4450 | 1 | 0.36 |
| 395 | 445...525 | OT315...400_ | OXP12X395-45 | 1SCA022749R0640 | 1 | 0.43 |
| 465 | 439...519 | OT315...400_ | OXP12X465-45 | 1SCA022423R1770 | 1 | 0.51 |
| 535 | 515...595 | OT315...400_ | OXP12X535-45 | 1SCA022723R2940 | 1 | 0.59 |
| 250 | 226…355 | OT1000…2500 | OXP12X250-45 | 1SCA022293R9400 | 1 | 0.28 |
| 280 | 256…385 | OT1000…2500 | OXP12X280-45 | 1SCA022382R0800 | 1 | 0.30 |
| 325 | 301…430 | OT1000…2500 | OXP12X325-45 | 1SCA022304R4450 | 1 | 0.36 |
| 395 | 371…500 | OT1000…2500 | OXP12X395-45 | 1SCA022749R0640 | 1 | 0.43 |
| 465 | 441…570 | OT1000…2500 | OXP12X465-45 | 1SCA022423R1770 | 1 | 0.51 |
| 535 | 511...640 | OT1000…2500 | OXP12X535-45 | 1SCA022723R2940 | 1 | 0.59 |
| 325 | 340…535 | OETL3150 | OXP12X325-45 | 1SCA022304R4450 | 1 | 0.36 |
| 395 | 410…605 | OETL3150 | OXP12X395-45 | 1SCA022749R0640 | 1 | 0.43 |
| 465 | 480…675 | OETL3150 | OXP12X465-45 | 1SCA022423R1770 | 1 | 0.51 |
| 535 | 550...745 | OETL3150 | OXP12X535-45 | 1SCA022723R2940 | 1 | 0.59 |

## Shaft alignment ring

Improves the handle operation if a handle and a shaft have been poorly aligned.
The type and the ordering numbers are for one piece.

| Colour | Suitable for handle | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **For pistol type handles OH_65...275J6...12.** | | | | | |
| Black | | OHZX10 | 1SCA022661R3610 | 10 | 0.23 |
| **For selector type handles OH_1...3** | | | | | |
| Black | | OHZX11 | 1SCA022708R3170 | 10 | 0.23 |
| **For round padlockable handle OZ371P_** | | | | | |
| Black | | OZG71 | 1SCA111686R1001 | 10 | 0.05 |

## Extension ring for pistol type handles

| | | | | | |
|---|---|---|---|---|---|
| Black | OHB_ | OHZX14 | 1SCA022851R6590 | 1 | 0.06 |

## Shaft tube for OT1000...2500

For switch-disconnectors with wide phase distance (140 mm or 185 mm)
Supporting 12 mm shafts longer than 280 mm

| | | | | |
|---|---|---|---|---|
| | OXT20x210X | 1SCA103684R1001 | 1 | 1.5 |

## Shaft extension socket

For extending the shaft of combination attachment.

| Shaft diameter [mm] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| 6 | OESAZX167 | 1SCA022190R1560 | 1 | 0.03 |
| 12 | OETLZX95 | 1SCA022083R5620 | 1 | 0.04 |

## Adapter for extension socket

The adapter can be placed inside the extension socket OETLZX95.

| | | | | |
|---|---|---|---|---|
| 6 | OETLZK19 | 1SCA022093R1850 | 1 | 0.02 |

S00261A

OA1G_
OA3G01

S01025A

OA2G11

S00266A

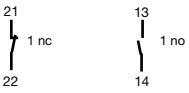
Auxiliary contacts - mounted on both sides of the switch.

S00040A

OBEA_

S01308A

OZKK_




1NC 1NO

## Auxiliary contact blocks, IP 20

Contact numbering according to EN 50013. The type and and the ordering numbers are for one piece.

| Suitable for switches | Function | Type | Order number | Delivery batch[4] [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **Auxiliary contact blocks for OT 16...125** | | | | | |
| **Snap-on mounting to the side of the switch** $I_{th}$ = 16A, cable cross section max. 2 x 2.5 mm². Early-break type OA1G10 | | | | | |
| ***Mountable on left side,*** max. 2 pcs | | | | | |
| OT 16...125F_, FT_ | 1NC | OA1G01 | 1SCA022353R4890 | 10 | 0.03 |
| OT 16...125F_, FT_ | 1NC | OA1G01AU[1] | 1SCA022436R7830 | 10 | 0.03 |
| ***Mountable on the right side,*** max. 2 pcs | | | | | |
| OT 16...125F_, FT_ | 1NO | OA1G10 | 1SCA022353R4970 | 10 | 0.03 |
| OT 16...125F_, FT_ | 1NO | OA1G10AU[1] | 1SCA022436R7910 | 10 | 0.03 |
| ***Mountable on both sides*** OT 16...40: max. 2NO+2NC, OT63...125: max. 4NO+4NC[3] | | | | | |
| OT 16...125F_ | 1NO+1NC | OA2G11[2] | 1SCA022379R8100 | 10 | 0.03 |
| **Auxiliary contact blocks for OT160** | | | | | |
| **Mounting with adapter to the side of the switch** $I_{th}$ = 16A, cable cross section max. 2 x 2.5 mm². Mounting with the adapter OAZX1, max. 2 blocks/side. | | | | | |
| OT160E_, ET_ | 1NO+1NC | OA2G11 | 1SCA022379R8100 | 10 | 0.03 |
| **Mounting with adapter on top of the switch** $I_{th}$ = 10 A. Cable cross section 0.5 mm²...2 x 2.5 mm². Insulation voltage $U_i$ 690 V. Mounting with the adapter OEZNP1, max. 6 aux. blocks. Early break type. | | | | | |
| OT160E_ | 1NO | OBEA10 | 1SCA022190R3000 | 10 | 0.02 |
| OT160E_ | 1NO | OBEA10AU[1] | 1SCA022185R3310 | 10 | 0.02 |
| OT160E_ | 1NC | OBEA01 | 1SCA022190R3260 | 10 | 0.02 |
| OT160E_ | 1NC | OBEA01AU[1] | 1SCA022185R3730 | 10 | 0.02 |
| **Auxiliary contact blocks for OT200...2500** | | | | | |
| **Mounting under the mechanism cover** The "test" contacts operate in ON- and OFF-positions as well as when the handle is turned to TEST-position = 45 degrees over the OFF-position. The "test indication" contacts operate only when the handle is turned to TEST-position. See the function table below. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, "test" or "test indication" contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place shown in the mounting instruction. In order to activate the "test" and "test indication" features a handle with test function is required. See the optional handles, page 26. | | | | | |
| OT200-250: Max. 4 test contacts or 2 test contacts + 2 test indication contacts. | | | | | |
| OT315-800: Max. 4 test contacts + 4 test indication contacts. | | | | | |
| OT1000-2500: Max 4 test indication contacts + 6 test contacts + 2 early operation test contacts. | | | | | |
| The test contacts can be used as standard auxiliary contacts as well. | | | | | |

**Function table of OT200...2500 auxiliary contacts**

| Handle position | Main contacts | Aux. / Test contacts N.O. | Test indication contact N.O. |
|---|---|---|---|
| Test | open | closed | closed |
| 0 | open | open | open |
| I | closed | closed | open |

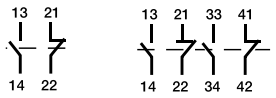
| | | | | | |
|---|---|---|---|---|---|
| **Mounting on the left side of the switch** Max. 8 auxiliary contact blocks with the OEA28 module. | | | | | |
| OT200...2500 | 1NO | OA1G10 | 1SCA022353R4970 | 10 | 0.03 |
| | 1NO | OA1G10AU [1] | 1SCA022436R7910 | 10 | 0.03 |
| | 1NC | OA3G01 | 1SCA022456R7410 | 10 | 0.03 |
| | 1NC | OA3G01AU [1] | 1SCA022819R5260 | 10 | 0.03 |

[1] Types _AU are gold plated for extremely difficult circumstances and low voltages.
[2] Not mountable on the same side as the fourth pole.
[3] Contact numbering:
(83) (43) (53) 13 21 (61) (31) (71)
(84) (44) (54) 14 22 (62) (32) (72)
[4] Auxiliary contacts OA1G_ are available in larger packing as well. A bulk package includes 50 switches.
Type number: add a suffix: /B, e.g. OA1G01/B.

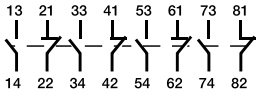
Early break type auxiliary contacts means that in the switches, the NO aux.contacts break before the main contacts open.

Performance data of auxiliary contacts, see next page.

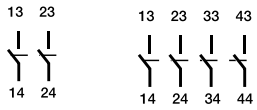
The contact timing: see the charts on page 64.



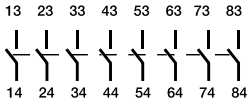

1NO+1NC 2NO+2NC



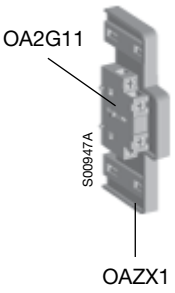

4NO+4NC

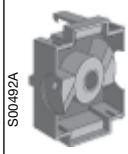



2NO 4NO

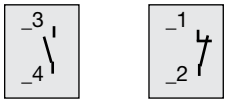



8NO

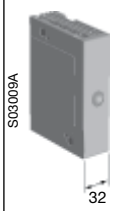



OEZNP 1




Configuration labels:
OBEAZX 10 OBEAZX 01




OEA28

## Auxiliary contact blocks, IP 20

Contact numbering according to EN 50013. The type and and the ordering numbers are for one piece.

| Suitable for switches | Function | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **Auxiliary contact blocks for OETL3150** | | | | | |
| **Mounting on the mechanism cover** | | | | | |
| $I_{th}$ = 10 A. Cable cross section 0.5 mm²...2 x 2.5 mm². Insulation voltage $U_i$ 690 V. Early break type. | | | | | |
| OETL3150 | 1NO+1NC | OZXK1 | 1SCA022131R8690 | 1 | 0.12 |
| OETL3150 | 2NO+2NC | OZXK2 | 1SCA022131R8850 | 1 | 0.12 |
| OETL3150 | 4NO+4NC | OZXK3[1)] | 1SCA022131R9070 | 1 | 0.18 |
| OETL3150 | 2NO | OZXK4 | 1SCA022131R9230 | 1 | 0.09 |
| OETL3150 | 4NO | OZXK5 | 1SCA022131R9400 | 1 | 0.12 |
| OETL3150 | 8NO | OZXK6[2)] | 1SCA022131R9660 | 1 | 0.18 |

## Mounting accessories for auxiliary contacts

| Suitable for switches | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| **Adapter for OA2G11 with OT160** | | | | |
| Max. two blocks/side. Mountable on either side of the switch. | | | | |
| OT 160E_, ET_ | OAZX1 | 1SCA022467R5140 | 1 | 0.03 |
| **Adapter for OBEA__ with OT160E** | | | | |
| Mountable on top of the switch. | | | | |
| OT160E | OEZNP1 | 1SCA022259R7410 | 1 | 0.02 |
| **Numbering stickers for auxiliary contact blocks OBEA_** | | | | |
| Required if several blocks are used. Fill numbers by pen or typewrite. | | | | |
| OBEA 10, 1 NO | OBEAZX10 | 1SCA022264R9910 | 10 | 0.01 |
| OBEA 01, 1 NC | OBEAZX01 | 1SCA022276R2470 | 10 | 0.01 |
| **Module for auxiliary contacts with OT 200...2500** | | | | |
| Screw mounting to the left side of the switch | | | | |
| OT 200...2500 | OEA28 | 1SCA022714R8810 | 1 | 0.04 |

## Performance data of auxiliary contacts according to IEC 60947-5-1

| For OA1G_, OA2G_, OA3G_ | | | | | | | For OBEA_ and OZXK_ | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ue/[V] | AC15 Ie/[A] | Ue/[V] | DC12 Ie/[A] | DC12 P/[W] | DC13 Ie/[A] | DC13 P/[W] | AC12 Ue/[V] | AC12 Ie/[A] | DC12 Ue/[V] | DC12 Ie/[A] |
| 230 | 6 | 24 | 10 | 240 | 2 | 50 | 120 | 8 | 125 | 1.1 |
| 400 | 4 | 72 | 4 | 290 | 0.8 | 60 | 240 | 6 | 250 | 0.55 |
| 415 | 4 | 125 | 2 | 250 | 0.55 | 70 | 400 | 4 | 440 | 0.31 |
| 690 | 2 | 250 | 0.55 | 140 | 0.27 | 70 | 415 | 4 | 500 | 0.27 |
| | | 440 | 0.1 | 44 | | | 480 | 3 | 600 | 0.2 |
| | | | | | | | 500 | 3 | | |
| | | | | | | | 690 | 2 | | |

| For OA1G_, OA2G_, OA3G_ | |
|---|---|
| **$U_i$/[V]** | 690 |
| **$U_{imp}$/[kV]** | 4 |
| **Pollution degree** | 3 |
| **$I_{th}$/[A]** | 16 |
| **Cable size** | 1...2 x 0.75...2.5 mm² |
| **Maximum fuse** | 16A / gG |
| **NEMA** | A600, R300, wire size: 18 - 14 AWG, 1(2) |

**[1)] 8 NO + 8 NC auxiliary contacts = 2 x OZXK 3**
**[2)] 16 NO auxiliary contacts = 2 x OZXK 6**

**Early break type auxiliary contacts means that in the switches, the NO aux.contacts break before the main contacts open.**

# Fourth poles, neutral and earth terminals, neutral links
# Ordering information

S00262A

S00263A

OTP_ 40_ OTP_ 80_

S01342A

OTP_ 125_

S01250A

OTZNA1-160E4
OTP_160EP

OTZ_

S01918A

OXN_

S01994A

OESAZX_

## Fourth poles

Mountable on the side of the switch. The type and the ordering numbers are for one piece.

| Suitable for switches | Function | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **Simultaneous function with the main contacts** | | | | | |
| OT16...40F3 | | OTPS40FPN1*) | 1SCA105001R1001 | 10 | 0.03 |
| | | OTPS40FPN2*) | 1SCA105000R1001 | 10 | 0.06 |
| OT 63...80F3 | | OTPS80FP | 1SCA105461R1001 | 10 | 0.14 |
| OT 100...125F3 | | OTPS125FP | 1SCA105099R1001 | 10 | 0.03 |
| OT 16...40FT3 | | OTPS40FDN1*) | 1SCA104999R1001 | 10 | 0.06 |
| | | OTPS40FDN2*) | 1SCA104998R1001 | 10 | 0.14 |
| OT 63...80FT3 | 7(N) L4 | OTPS80FD | 1SCA105458R1001 | 5 | 0.30 |
| OT 100...125FT3 | | OTPS125FD | 1SCA105096R1001 | 1 | 0.30 |
| OT 160E3, ET3 | | OTZNA1-160E4 | 1SCA022271R8310 | 5 | 0.3 |
| OT160E3, ET3 | | OTPS160EP | 1SCA022325R7360 | 1 | 0.3 |
| OT200…250 | 8(N) T4 | OTZ250E | 1SCA022735R9420 | 10 | 0.35 |
| OT315…400 | | OTZ400E | 1SCA022749R1960 | 10 | 0.59 |
| OT630...800 | | OTZ800E | 1SCA022807R5100 | 1 | 1.70 |
| OT1000...1250 | | OTZ1250E | 1SCA103765R1001 | 1 | 4.30 |
| OT1600 | | OTZ1600E | 1SCA100431R1001 | 1 | 4.54 |
| OT2000…2500 | | OTZ2500E | 1SCA107931R1001 | 1 | 4.30 |
| **Late-break and early-make** | | | | | |
| OT 16...40F3 | N | OTPL40FP | 1SCA105717R1001 | 10 | 0.03 |
| OT 63...80F3 | | OTPL80FP | 1SCA105452R1001 | 10 | 0.06 |
| OT 100...125F3 | | OTPL125FP | 1SCA105090R1001 | 10 | 0.14 |
| OT 16...40FT3 | | OTPL40FD | 1SCA105716R1001 | 10 | 0.03 |
| OT 63...80FT3 | | OTPL80FD | 1SCA105451R1001 | 10 | 0.06 |
| OT 100...125FT3 | N | OTPL125FD | 1SCA105088R1001 | 10 | 0.14 |

## Neutral and earth terminals

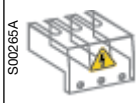
Mountable on the side of the switch. The type and the ordering numbers are for one piece.

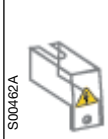
| | | | | | |
|---|---|---|---|---|---|
| **Fixed neutral** | | | | | |
| OT 16...40F3 | N | OTPN40FP | 1SCA104997R1001 | 10 | 0.03 |
| OT 63...80F3 | | OTPN80FP | 1SCA105457R1001 | 10 | 0.06 |
| OT 100...125F3 | | OTPN125FP | 1SCA105094R1001 | 10 | 0.14 |
| OT 160E3, ET3 | | OTPN160EP | 1SCA022344R9510 | 1 | 0.30 |
| OT 16...40FT3 | | OTPN40FD | 1SCA105718R1001 | 10 | 0.03 |
| OT 63...80FT3 | | OTPN80FD | 1SCA105456R1001 | 10 | 0.06 |
| OT 100...125FT3 | N | OTPN125FD | 1SCA105092R1001 | 10 | 0.14 |
| **Detachable neutral** | N | | | | |
| OT 16...40F3 | | OTPD40FP | 1SCA104994R1001 | 10 | 0.03 |
| OT 63...80F3 | | OTPD80FP | 1SCA105445R1001 | 10 | 0.06 |
| OT 100...125F3 | | OTPD125FP | 1SCA105083R1001 | 10 | 0.14 |
| OT 63...80FT3 | N | OTPD80FD | 1SCA105444R1001 | 1 | 0.06 |
| **Protective earth** | | | | | |
| OT 16...40F3 | | OTPE40FP | 1SCA104995R1001 | 10 | 0.03 |
| OT 63...80F3 | PE | OTPE80FP | 1SCA105448R1001 | 10 | 0.06 |
| OT 100...125F | | OTPE125FP | 1SCA105128R1001 | 10 | 0.14 |
| OT 160E3, ET3 | | OTPE160EP | 1SCA022345R0010 | 1 | 0.30 |
| OT 16...40FT3 | | OTPE40FD | 1SCA109884R1001 | 10 | 0.03 |
| OT 63...80FT3 | | OTPE80FD | 1SCA105446R1001 | 10 | 0.06 |
| OT 100...125FT3 | PE | OTPE125FD | 1SCA105698R1001 | 10 | 0.14 |

## Neutral links

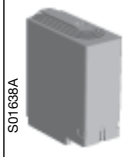
| Suitable for switches | $I_{th}$ [A] | Type | Order number | Units/ type [pcs] | Weight unit [kg] |
|---|---|---|---|---|---|
| **Detachable, mountable separately to the base plate** | | | | | |
| OT200...250 | 250 | OXN250 | 1SCA022752R9950 | 1 | 0.26 |
| OT 315...400 | 400 | OXN400 | 1SCA022770R3060 | 1 | 0.70 |
| OT 630...800 | 800 | OXN800T | 1SCA022829R0840 | 1 | 0.96 |
| OT1000…1250 | 1250 | OXN1250T | 1SCA104162R1001 | 1 | 2.2 |
| **Mountable separately to the base plate** | | | | | |
| | 200 | OESAZX162 | 1SCA022193R0400 | 1 | 0.12 |
| | 315 | OESAZX164 | 1SCA022202R9520 | 1 | 0.10 |
| | 400 | OESAZX165 | 1SCA022202R9790 | 1 | 0.12 |
| | 1000 | OESAZX160 | 1SCA022186R3960 | 1 | 1.00 |

*) **N1=On the left side of the switch**
**N2=On the right side of the switch**


OTS_T3

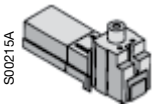

OTS_T1

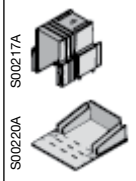
OTS 160T1


OTS_L_

OTS_S_

OZXB2K

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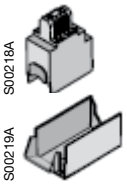

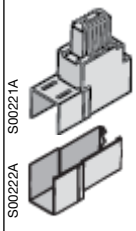
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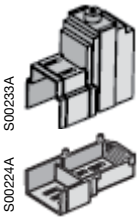

OZXB5K

## Terminal shrouds

The type and the ordering numbers are for one piece.

| Suitable for switches | Type | Order number | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| **Snap-on mounting, transparent** | | | | |
| **For 3-pole switches** | | | | |
| OT 16...40F3, -FT3 | OTS40T3 | 1SCA105317R1001 | 10 | 0.01 |
| OT63...80F3, -FT3 | OTS63T3 | 1SCA022353R6750 | 10 | 0.01 |
| OT 100...125F3, FT3 | OTS125T3 | 1SCA022379R9680 | 10 | 0.01 |
| OT160E3 | OTS160T3 | 1SCA022495R4610 | 1 | 0.08 |
| OT100...125F3 with terminal clamps OZXL1 or OZXT1 | OTS125T3P | 1SCA022491R9890 | 10 | 0.01 |
| **For 4-pole switches** | | | | |
| OT160E4 | OTS160T4 | 1SCA022495R4700 | 1 | 0.08 |
| **For 1 to 4-pole switches, shroud for single pole and for fourth pole** | | | | |
| OTP_40F_ | OTS40T1 | 1SCA105314R1001 | 10 | 0.01 |
| OTP_80F_ | OTS63T1 | 1SCA022353R6910 | 10 | 0.01 |
| OTP_125F_ | OTS125T1 | 1SCA022379R9760 | 10 | 0.01 |
| OT160E_ | OTS160T1 | 1SCA022691R2010 | 1 | 0.01 |
| **For OT100...125E3 with terminal clamps** | | | | |
| OZXL1/1 or OZXT1 | OTS125T1P | 1SCA022491R9970 | 10 | 0.01 |

## Snap-on mounting, grey plastic

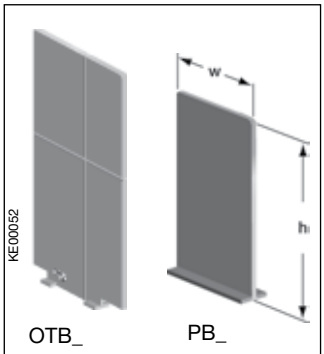
Pack of single pole shrouds, IP 3X. Transparent shrouds available on request.

| Suitable for switches | Description | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **For 3-pole switches** | | | | | |
| OT200…250 | Long type | OTS250G1L/3 | 1SCA022731R8150 | 3 | 0.09 |
| OT200…250 | Short type | OTS250G1S/3 | 1SCA022731R8310 | 3 | 0.06 |
| OT315…400 | Long type | OTS400G1L/3 | 1SCA022736R8840 | 3 | 0.15 |
| OT315…400 | Short type | OTS400G1S/3 | 1SCA022736R9060 | 3 | 0.09 |
| OT630…800 | Long type | OTS800G1L/3 | 1SCA022776R7890 | 3 | 0.32 |
| OT630…800 | Short type | OTS800G1S/3 | 1SCA022776R8190 | 3 | 0.17 |
| OT1000...1600 | Long type | OTS1600G1L/3 | 1SCA022871R9510 | 3 | 0.6 |
| OT1000...1600 | Short type | OTS1600G1S/3 | 1SCA022871R9600 | 3 | 0.4 |
| OT2000…2500 | Long type | OTS2500G1L/3 | 1SCA107261R1001 | 3 | 1 |
| OT2000…2500 | Short type | OTS2500G1S/3 | 1SCA107260R1001 | 3 | 0.5 |
| **For 4-pole switches** | | | | | |
| OT200…250 | Long type | OTS250G1L/4 | 1SCA022731R8230 | 4 | 0.12 |
| OT200…250 | Short type | OTS250G1S/4 | 1SCA022731R8400 | 4 | 0.08 |
| OT315…400 | Long type | OTS400G1L/4 | 1SCA022736R9490 | 4 | 0.20 |
| OT315…400 | Short type | OTS400G1S/4 | 1SCA022736R9650 | 4 | 0.12 |
| OT630…800 | Long type | OTS800G1L/4 | 1SCA022776R7970 | 4 | 0.42 |
| OT630…800 | Short type | OTS800G1S/4 | 1SCA022776R8270 | 4 | 0.26 |
| OT1000...1600 | Long type | OTS1600G1L/4 | 1SCA022871R9780 | 4 | 0.8 |
| OT1000...1600 | Short type | OTS1600G1S/4 | 1SCA022871R9860 | 4 | 0.5 |
| OT2000…2500 | Long type | OTS2500G1L/4 | 1SCA107262R1001 | 4 | 1.3 |
| OT2000…2500 | Short type | OTS2500G1S/4 | 1SCA107271R1001 | 4 | 0.7 |

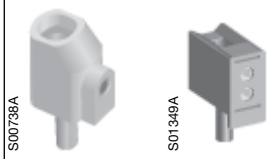
## Terminal shrouds for terminal clamps

Snap-on mounting, transparent plastic, IP 2X.

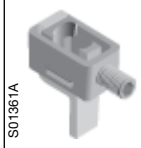
| Suitable for terminal clamps | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| OZXB2, 2L | OZXB2K | 1SCA022264R0010 | 3 | 0.05 |
| OZXB3, 4 | OZXB3K | 1SCA022264R0440 | 3 | 0.20 |
| OZXB5, 6 | OZXB4K | 1SCA022199R2850 | 3 | 0.24 |
| OZXB7, 7L | OZXB5K | 1SCA022283R8040 | 3 | 0.13 |



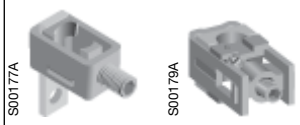

OTB_ PB_



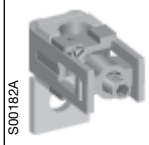

OZXT1 OZXT2...3




OZXL 1

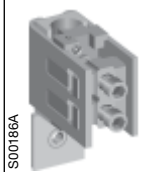



OZXB 1L OZXB 2

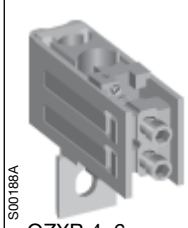



OZXB 2L, 7L

OZXB 8, 9




OZXB 3, 5




OZXB 4, 6

## Phase separators

Grey plastic plate for maintaining 1" clearance between the phases without terminal shrouds. Snap-on mounting.

| Suitable for switches | Type | Order number | Units/ type [pcs] | Weight/ type [kg] |
|---|---|---|---|---|
| OT600U, OT630...800E, 3- and 4-pole | OTB800/6 | 1SCA022821R7760 | 6 | 0.35 |
| OT1000…2500, 3- and 4-pole | OTB1600/6 | 1SCA100768R1001 | 6 | 0.50 |

## Phase barriers

The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OT200...800 switch disconnectors. 3-pole switch disconnectors need 4 barriers and 4-pole switch disconnectors need 6 barriers for full protection.

| Suitable for switches | Number of poles | Height h [mm] | Cutting width w of the phase barrier [mm] | Type | Order number | Units/ type [pcs] |
|---|---|---|---|---|---|---|
| OT200…250 | 3 | 100 | 55 | PB100 low | 1SDA054970R1 | 4 |
| | 3 | 200 | 55 | PB200 high | 1SDA054972R1 | 4 |
| | 4 | 100 | 55 | PB100 low | 1SDA054971R1 | 6 |
| | 4 | 200 | 55 | PB200 high | 1SDA054973R1 | 6 |
| OT315…400_ | 3 | 100 | 67 | PB100 low | 1SDA054970R1 | 4 |
| | 3 | 200 | 67 | PB200 high | 1SDA054972R1 | 4 |
| | 4 | 100 | 67 | PB100 low | 1SDA054971R1 | 6 |
| | 4 | 200 | 67 | PB200 high | 1SDA054973R1 | 6 |
| OT600…800_ | 3 | 100 | 90 | PB100 low | 1SDA054970R1 | 4 |
| | 3 | 200 | 90 | PB200 high | 1SDA054972R1 | 4 |
| | 4 | 100 | 90 | PB100 low | 1SDA054971R1 | 6 |
| | 4 | 200 | 90 | PB200 high | 1SDA054973R1 | 6 |

## Terminal clamps

| Suitable for switches | Cable cross section [mm²] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **Terminal clamp sets for Al- and Cu-cables** Insulated versions | | | | | |
| OT63...125 | 16...50 Al<br>2.5...50 Cu | OZXT1 | 1SCA022469R6310 | 3 | 0.05 |
| OT100...160E | 16...120 Al/Cu | OZXT2 | 1SCA022620R7200 | 3 | 0.21 |
| | 2x(6...50) Al/Cu | OZXT3 | 1SCA022639R0720 | 3 | 0.21 |

**Terminal clamp sets for Al- and Cu-cables**

| Suitable for switches | Cable cross section [mm²] | Suitable shroud | Type | Order number | Units/ type [pcs] | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|---|
| OT100...125F | 10...70Al/Cu | | OZXL1 | 1SCA022439R6770 | 3 | 1 | 0.14 |
| | 10...70Al/Cu | | OZXL1/1 | 1SCA022469R6220 | 1 | 50 | 0.05 |
| OZXB type Al/Cu connectors made of stainless steel | | | | | | | |
| OT200...250 | 10...70 | OTS250_L | OZXB1L | 1SCA022169R2030 | 3 | 1 | 0.15 |
| | 10...70 | OTS250_L | OZXB1L/1 | 1SCA022194R0030 | 1 | 50 | 0.05 |
| | 25...120 | OZXB2K | OZXB2 | 1SCA022119R7610 | 3 | 1 | 0.34 |
| | 25...120 | OZXB2K | OZXB2/1 | 1SCA022194R0200 | 1 | 50 | 0.12 |
| | 25...120 | OZXB2K | OZXB2L | 1SCA022158R7750 | 3 | 1 | 0.43 |
| | 25...120 | OZXB2K | OZXB2L/1 | 1SCA022194R0460 | 1 | 50 | 0.15 |
| | 95...185 | OTS250_L | OZXB8 | 1SCA022744R1510 | 3 | 1 | 0.50 |
| | 95...185 | OTS250_L | OZXB8/1 | 1SCA022744R1600 | 1 | 20 | 0.15 |
| | 95...240 | OTS250_L | OZXB9 | 1SCA022750R3210 | 3 | 1 | 0.50 |
| | 95...240 | OTS250_L | OZXB9/1 | 1SCA022750R3300 | 1 | 20 | 0.14 |
| OT315...400 | 25...120 | OZXB2K | OZXB2L | 1SCA022158R7750 | 3 | 1 | 0.43 |
| | 25...120 | OZXB2K | OZXB2L/1 | 1SCA022194R0460 | 1 | 50 | 0.15 |
| | 95…185 | OZXB3K | OZXB3 | 1SCA022136R8100 | 3 | 1 | 1.28 |
| | 95…185 | OZXB3K | OZXB3/1 | 1SCA022194R0620 | 1 | 20 | 0.13 |
| | 2x(95…185) | OZXB3K | OZXB4 | 1SCA022137R4760 | 3 | 1 | 1.71 |
| | 2x(95…185) | OZXB3K | OZXB4/1 | 1SCA022194R0890 | 1 | 20 | 0.60 |
| | 120...240 | OZXB5K | OZXB7 | 1SCA022185R0040 | 3 | 1 | 1.00 |
| | 120...240 | OZXB5K | OZXB7/1 | 1SCA022194R1430 | 1 | 20 | 0.34 |
| | 120...240 | OZXB5K | OZXB7L | 1SCA022185R7130 | 3 | 1 | 1.20 |
| | 120...240 | OZXB5K | OZXB7L/1 | 1SCA022194R1600 | 1 | 20 | 0.39 |
| | 95...185 | OTS400_L | OZXB8 | 1SCA022744R1510 | 3 | 1 | 0.50 |
| | 95...185 | OTS400_L | OZXB8/1 | 1SCA022744R1600 | 1 | 20 | 0.15 |
| | 95...240 | OTS400_L | OXZB9 | 1SCA022750R3210 | 3 | 1 | 0.50 |
| | 95...240 | OTS400_L | OZXB9/1 | 1SCA022750R3300 | 1 | 20 | 0.14 |
| OT630…800 | 120…300 | OZXB4K | OZXB5 | 1SCA022137R2470 | 3 | 1 | 2.22 |
| | 120…300 | OZXB4K | OZXB5/1 | 1SCA02194R1010 | 1 | 20 | 0.80 |
| | 2x(120…300) | OZXB4K | OZXB6 | 1SCA022137R4920 | 3 | 1 | 3.03 |
| | 2x(120…300) | OZXB4K | OZXB6/1 | 1SCA022194R1270 | 1 | 20 | 1.00 |

- **More information on Al/Cu terminal clamps, see the catalogue OZX1A GB.**
- **Included bolt sets:**
  **OT 200...250, OZXE51,M8x25, 6 pcs/package**
  **OT 315...400, OZXE54, M10x30, 6 pcs/package**
  **OT 630...800, OZXE3,M12x40, 6 pcs/package**

S03009A

OZXR2X300

S03010A

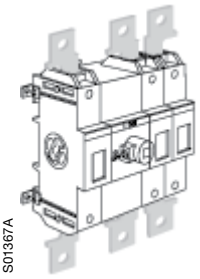
OZXP2X240

S03011A

OZXP240

S03012A

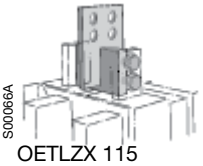
OZXR240


S01367A

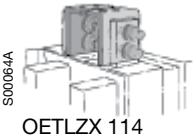
OEZXX6, 13

S00094A

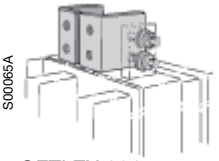
OZXE 21


S00066A

OETLZX 115
Vertical mounting


S00064A

OETLZX 114
Vertical / back mounting


S00065A

OETLZX 114
Edgewise mounting

## Terminal clamp sets for Al- and Cu-cables

OZXB type Al/Cu connectors made of stainless steel

| Suitable for switches | Cable cross section [mm²] | Suitable shroud | Type | Order number | Units/ type [pcs] | Delivery batch [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|---|---|
| OT1000...1600 | 95…185 | OTS1600_L | OZXB3 | 1SCA022136R8100 | 3 | 1 | 1.28 |
| | 95…185 | OTS1600_L | OZXB3/1 | 1SCA022194R0620 | 1 | 20 | 0.13 |
| | 2x(95…185) | OTS1600_L | OZXB4 | 1SCA022137R4760 | 3 | 1 | 1.71 |
| | 2x(95…185) | OTS1600_L | OZXB4/1 | 1SCA022194R0890 | 1 | 20 | 0.60 |
| | 120…300 | OTS1600_L | OZXB5 | 1SCA022137R2470 | 3 | 1 | 2.22 |
| | 120…300 | OTS1600_L | OZXB5/1 | 1SCA022194R1010 | 1 | 20 | 0.80 |
| | 2x(120…300) | OTS1600_L | OZXB6 | 1SCA022137R4920 | 3 | 1 | 3.03 |
| | 2x(120…300) | OTS1600_L | OZXB6/1 | 1SCA022194R1270 | 1 | 20 | 1.00 |
| | 120…240 | OTS1600_L | OZXB7L | 1SCA022185R7130 | 3 | 1 | 1.20 |
| | 120...240 | OTS1600_L | OZXB7L/1 | 1SCA022194R1600 | 1 | 20 | 0.39 |
| OT2000…2500 | 95…185 | OTS2500_L | OZXB3 | 1SCA022136R8100 | 3 | 1 | 1.28 |
| | 95…185 | OTS2500_L | OZXB3/1 | 1SCA022194R0620 | 1 | 20 | 0.13 |
| | 2x(95…185) | OTS2500_L | OZXB4 | 1SCA022137R4760 | 3 | 1 | 1.71 |
| | 2x(95…185) | OTS2500_L | OZXB4/1 | 1SCA022194R0890 | 1 | 20 | 0.6 |
| | 120…300 | OTS2500_L | OZXB5 | 1SCA022137R2470 | 3 | 1 | 2.22 |
| | 120…300 | OTS2500_L | OZXB5/1 | 1SCA022194R1010 | 1 | 20 | 0.8 |
| | 2x(120…300) | OTS2500_L | OZXB6 | 1SCA022137R4920 | 3 | 1 | 3.03 |
| | 2x(120…300) | OTS2500_L | OZXB6/1 | 1SCA022194R1270 | 1 | 20 | 1 |
| | 120…240 | OTS2500_L | OZXB7L | 1SCA022185R7130 | 3 | 1 | 1.2 |
| | 120...240 | OTS2500_L | OZXB7L/1 | 1SCA022194R1600 | 1 | 20 | 0.39 |
| OETL3150 | 95…185 | OZXB3K | OZXB3 | 1SCA022136R8100 | 3 | 1 | 1.28 |
| | 95…185 | OZXB3K | OZXB3/1 | 1SCA022194R0620 | 1 | 20 | 0.13 |
| | 2x(95…185) | OZXB3K | OZXB4 | 1SCA022137R4760 | 3 | 1 | 1.71 |
| | 2x(95…185) | OZXB3K | OZXB4/1 | 1SCA022194R0890 | 1 | 20 | 0.60 |
| | 120…300 | OZXB4K | OZXB5 | 1SCA022137R2470 | 3 | 1 | 2.22 |
| | 120…300 | OZXB4K | OZXB5/1 | 1SCA022194R1010 | 1 | 20 | 0.80 |
| | 2x(120…300) | OZXB4K | OZXB6 | 1SCA022137R4920 | 3 | 1 | 3.03 |
| | 2x(120…300) | OZXB4K | OZXB6/1 | 1SCA022194R1270 | 1 | 20 | 1.00 |

OZXR type Al/Cu connectors made of stainless steel and copper

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| OT200…250 | 25...95 | OTS250_L | OZXR95 | 1SCA115530R1001 | 3 | | 0.21 |
| OT200…250 | 95…185 | OTS250_L | OZXR185 | 1SCA115531R1001 | 3 | | 0.45 |
| OT315...400 | 2x(95…185) | - | OZXR2X185 | 1SCA115534R1001 | 3 | | 0.66 |
| OT315...400 | 185...300 | - | OZXR300 | 1SCA115533R1001 | 3 | | 0.87 |
| OT630...800 | 2x(185...300) | - | OZXR2X300 | 1SCA115535R1001 | 3 | | 1.59 |
| OT315...400 | 95...240 | OTS400_L | OZXR240 | 1SCA115532R1001 | 3 | | 0.42 |

OZXP type Al/Cu connectors made of tin plated aluminium profile

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| OT200…250 | 6...95 | OTS250_L | OZXP95 | 1SCA115539R1001 | 3 | | 0.03 |
| OT315...400 | 35...240 | - | OZXP240 | 1SCA115542R1001 | 3 | | 0.27 |
| OT630...800 | 2x(70...240) | OTS800_L | OZXP2X240 | 1SCA115544R1001 | 3 | | 1.38 |

## Busbar connections

| Suitable for switches | Suitable for clamps | Type | Order number | Units/ type [pcs] | Weight unit [kg] |
|---|---|---|---|---|---|
| **Busbar spreader kit** | | | | | |
| OT160E | OZXB 2 | OEZXX6 | 1SCA022292R6330 | 3 | 0.20 |
| OT160E | OZXB 2 | OEZXX13 | 1SCA022299R9720 | 4 | 0.30 |
| **Busbars for parallel connection** | | | | | |
| OT 160[1)] | 2 x OZXB2_ | OZXE21 | 1SCA022161R8810 | 3 | 0.30 |

### Busbar connections for OETL 3150

Busbar termination from different directions.

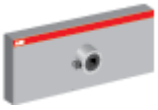
| Suitable for switches | Type | Order number | Units/ type [pcs] | Weight unit [kg] |
|---|---|---|---|---|
| **Vertical mounting** | | | | |
| 3 pole | OETLZX115 | 1SCA022117R7770 | 6 | 21.0 |
| 4 pole | OETLZX115/1 | 1SCA022126R2110 | 8 | 28.0 |
| **Vertical- / back- or edgewise mounting** | | | | |
| 3 pole | OETLZX114 | 1SCA022117R7510 | 6 | 14.1 |
| 4 pole | OETLZX114/1 | 1SCA022126R1990 | 8 | 18.8 |

[1)] **OT 160 has to be provided with OEZXX6 or 13. The part number for the fourth pole clamp: OZXB2/1**

- **More information on Al/Cu terminal clamps, see the catalogue OZX1A GB**

**Included bolt sets:**
**OT1000...1250, OZXE11, M12x50, 6 pcs/package**
**OT1600, OZXE14, M12x60, 6 pcs/package**
**OT2000.2500, OZXE14, M12x60, 12 pcs/package**
**OETL 3150, OZXE14, M12x60 mm, 12 pcs/package**

S04055
OWP6D40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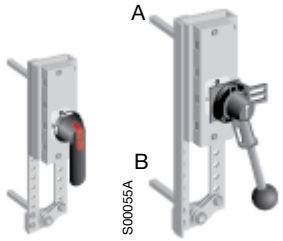
S00061A
OTZW 8

S01246A
OESA ZW 2
OETLZW9

S01234A
OESAZW1



OTZW25, OETLZW11 OETLZW 12

S01245A
OTZW 17

OTZW26 OETLZW13

S00938A
OTZW24, 10

S00053A
OETLZW 14, 3, 15

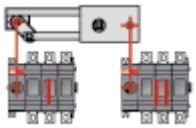
## Conversion kits for front operated switch combinations

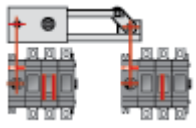
| Suitable for switches | Shaft distance [mm] | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **6 and 8-pole switch mechanism** | | | | | |
| Parallel attachment for connecting two 3- or 4-pole switches. The switches work simultaneously.Mounting directly on the top of two switch-disconnectors, snap-on mounting. The switch size is printed on stickers for the different switch sizes. The fourth pole or auxiliary contacts can be mounted on the outer side of the combination. | | | | | |
| OT16 - 40 | | OWP6D40 | 1SCA022865R4800 | 1 | 0.03 |
| OT63 - 80 | | OWP6D80 | 1SCA022865R5010 | 1 | 0.03 |
| OT100 - 125 | | OWP6D125 | 1SCA022865R5100 | 1 | 0.03 |
| Attachment levers provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically. Two 3 or 4-pole switches needed. | | | | | |
| OT16 - 40<br>OT63 - 80<br>OT100 - 125 | 45+(0 - 12)x15<br>60+(0 - 11)x15<br>75+(0 - 10)x15 | OTZW8 | 1SCA022421R7600 | 1 | 0.17 |
| OT160<br>OT200 - 250 | 45+(0 - 11)x15<br>45+(0 - 13)x15 | OESAZW2 | 1SCA022078R1600 | 1 | 0.8 |
| OT315 - 800 | 60+(0 - 19)x20 | OETLZW9 | 1SCA022061R3300 | 1 | 1.1 |
| **Change-over switch mechanism** | | | | | |
| Two switches connected with a mechanism operating into I-O-II positions. Two 3 or 4-pole switches needed. | | | | | |
| OT16 - 125 | 90+(0 - 10)x15 | OESAZW1 | 1SCA022064R3710 | 1 | 0.78 |
| OT200 - 250 | 210+(0 - 18)x20 | OTZW25 | 1SCA022778R6920 | 1 | 2.8 |
| OT315 - 400 | 210+(0 - 11)x20 | OETLZW11 | 1SCA022078R0030 | 1 | 3.0 |
| OT630-800 | 210+(0 - 20)x20 | OETLZW12 | 1SCA022078R0200 | 1 | 4.6 |
| **By-pass switch mechanism** | | | | | |
| A combination of two switches in parallel with a third switch for change-over operation to by-pass , for example, a breaker for maintenance. The by-pass attachment can be used together with another combination attachment. Three 3 or 4-pole switches needed. | | | | | |
| OT 16 - 125 | Between 1 and 2: 90+(0 - 6)x15 Between 1 and 3: 90+(0 - 10)x15 | OTZW17 | 1SCA022387R1620 | 1 | 0.88 |
| OT200 - 250 | Between 1 and 2: 210+(0 - 9)x20 Between 1 and 3: 250+(0 - 9)x20 | OTZW26 | 1SCA022778R7060 | 1 | 3.3 |
| OT315 - 800 | Between 1 and 2: 210+(0 - 18)x20 Between 1 and 3: 250+(0 - 18)x20 | OETLZW13 | 1SCA022078R0460 | 1 | 4.0 |
| **Mechanical interlock mechanism** | | | | | |
| Prevents one switch from closing to ON-position, if the other is not in OFF-position. When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in ON-position. (UPS-usage, make-before-break) | | | | | |
| **Two 3- or 4-pole switches needed** | | | | | |
| OT 16 - 125 | 100 | OTZW24 | 1SCA022639R5610 | 1 | 0.08 |
| **Two 3- or 4-pole switches needed** | | | | | |
| OT 160 - 250 | 190 | OTZW10 | 1SCA022431R5280 | 1 | 0.40 |
| **Two 3 or 4-pole switches needed** | | | | | |
| OT315 - 400 | 250 | OETLZW14 | 1SCA022077R3410 | 1 | 0.70 |
| OT315 - 800 | 300 | OETLZW3 | 1SCA022049R0380 | 1 | 0.80 |
| OT315 - 2500 and OETL3150 | 500 | OETLZW15 | 1SCA022081R9340 | 1 | 1.24 |

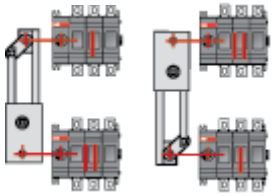
**See the table of the handles and shafts included in the conversion kits on next page.**

## The shafts and handles for conversion kits

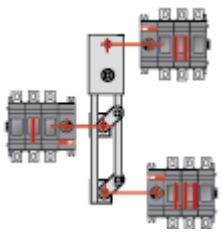
| Conversion kit type | To be ordered separately | | Included in conversion kit delivery | | The standard handle or shaft of one of the combined switches can be used | |
|---|---|---|---|---|---|---|
| | Shaft | Handle | Shaft | Handle | Shaft | Handle |
| **6 and 8-pole switches** | | | | | | |
| OWP6D40 | x (shaft dia 6 mm) | OHBS1A_ | - | - | - | - |
| OWP6D80 | x (shaft dia 6 mm) | OHBS1A_ | - | - | - | - |
| OWP6D125 | x (shaft dia 6 mm) | OHBS1A_ | - | - | - | - |
| OWP6D40 | x (shaft dia 6 mm) | OHB45J6 | - | - | - | - |
| OWP6D80 | x (shaft dia 6 mm) | OHB45J6 | - | - | - | - |
| OWP6D125 | x (shaft dia 6 mm) | OHB45J6 | - | - | - | - |
| OESAZW2 | - | - | x (2 pcs) | OHB145J12 | - | - |
| OETLZW9 | - | - | - | - | x | x |
| OTZW8 | x | x | - | - | - | - |
| **Change-over switches** | | | | | | |
| OESAZW1 | - | | x (2 pcs) | OHB80J6E011 | - | - |
| OTZW25 | - | - | x (2 pcs) | OHB95J12E011 | - | - |
| OETLZW11 | - | - | x (2 pcs) | OHB145J12E011 | - | - |
| OETLZW12 | - | | x (2 pcs) | YASDA21 (metallic) | - | - |
| **By-pass switches** | | | | | | |
| OTZW17 | - | - | x (3 pcs) | OHB80J6E011 | | |
| OTZW26 | - | - | x (3 pcs) | OHB95J12E011 | - | - |
| OETLZW13 | - | - | x (3 pcs) | YASDA 6 | - | - |
| **Mechanical interlock** | | | | | | |
| OTZW24 | - | - | - | - | x | x |
| OTZW10 | - | - | - | - | x | x |
| OETLZW14 | - | - | - | - | x | x |
| OETLZW3 | - | - | - | - | x | x |
| OETLZW15 | - | - | - | - | x | x |



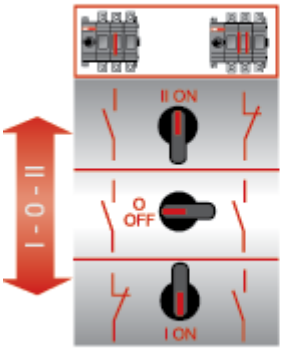




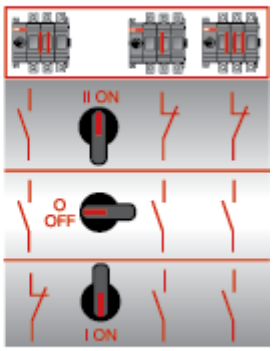
Change-over switches, 6- and 8 pole switches



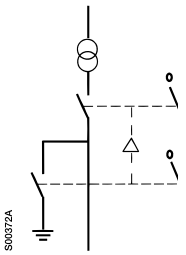
By-pass switches




Change-over switches




By-pass switches




Mechanical interlock

S00059A

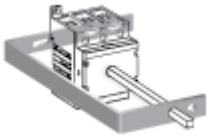
OETLZW 16, 5

S00683A

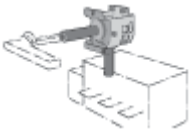
SA 1

S01027A

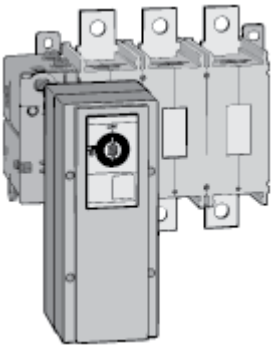
OHZX4


S00074A

OETLZX 58


S00063A

OETLZX 108


S00039A

OEMO_

## Locking accessories

**Cam attachment for Castell, Lowe & Fletcher and Ronis interlock**

Cam attachment for Castell, Lowe & Fletcher or Ronis interlock. Lock, handle or shaft not included. Mounting to OXP-shaft, works together with OH-door handle and a shaft. This accessory is mounted to the operating shaft of the switch and therefore only compatible with external handles.

| Suitable for switches | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| OT16...250 | OETLZW16 | 1SCA022093R2070 | 1 | 0.17 |
| OT315...2500, OETL3150 | OETLZW5 | 1SCA022052R3900 | 1 | 0.14 |
| **Padlocking adapter** | | | | |
| For a padlock with max. 3.5 mm bail. | | | | |
| OT63...160 | SA1 | 1SCA022401R8230 | 1 | 0.01 |

## Door interlock bracket

Prevents defeating the door interlocking of handles.

| For pistol type handles | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| OH_45...275 | OHZX4 | 1SCA022467R2470 | 1 | 0.03 |

## Mounting accessories

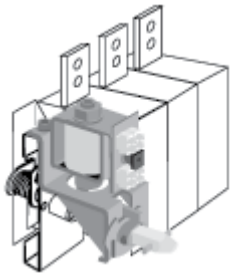
| Suitable for switches | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| **Shaft support for long shafts** | | | | |
| OT16...125 | OETLZX58 | 1SCA022068R8220 | 1 | 0.10 |
| **Handle support bracket for direct mounting on the switch mechanism[2)]** | | | | |
| OETL3150 | OETLZX71[1)] | 1SCA022068R2700 | 1 | 0.40 |
| **90° angle kit, a front operated switch can be converted to a side operated switch[2)]** | | | | |
| OETL3150 | OETLZX108 | 1SCA022087R8430 | 1 | 2.10 |

## Motor operator

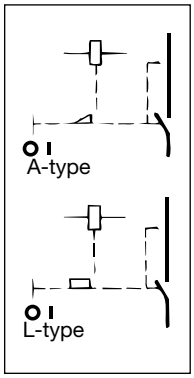
For remote control of the switch. The standard delivery includes complete control circuit; short cable and spare handle.

| Suitable for switches | Voltage | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|---|
| **Function I-0 (ON-OFF)** | | | | | |
| OETL3150 | 110 VAC | OEMO004/110VAC | 1SCA022182R0300 | 1 | 6.3 |
| | 230 VAC | OEMO004/230VAC | 1SCA022196R9010 | 1 | 6.3 |

[1)] With metallic handle
[2)] Mounting: OETL3150 on mounting plate, key hole fixing.
The shaft delivered with the switch can be used.


S00052A

OETLZT 80_



S04001

OTZT1_

S04003

OTZT3_

S04005

PDAL2_

## Electrical interlock

Closed circuit principle, for interlocking the switch movement. When the coil circuit is dead, A-types can not be switched to ON-position and L-types to ON- or OFF-position. Aux. contacts are mountable on the top of the mechanism.

| Coil voltage | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|---|---|---|---|---|
| **For OETL 3150** | | | | |
| OETLZT 80_/_ $U_n$/R: 110VAC/1000Ω, 230VAC/3900Ω, 24VDC/48Ω, 48VDC/190Ω, 60VDC/300Ω, 110VDC/1000Ω, 220VDC/3900Ω, U=0.7...1.1*$U_n$, PDC=15 W, $P_{AC}$ = 30VA. | | | | |
| **A - types** | | | | |
| 24 V DC | OETLZT80A24DC | 1SCA022081R1440 | 1 | 1.10 |
| 48 V DC | OETLZT80A48DC | 1SCA022081R1010 | 1 | 1.10 |
| 60 V DC | OETLZT80A60DC | 1SCA022081R0630 | 1 | 1.10 |
| 110 V DC | OETLZT80A110DC | 1SCA022081R0210 | 1 | 1.10 |
| 220 V DC | OETLZT80A220DC | 1SCA022080R9890 | 1 | 1.10 |
| 110V AC | OETLZT80A110AC | 1SCA022080R9460 | 1 | 1.10 |
| 220 V AC | OETLZT80A220AC | 1SCA022079R9050 | 1 | 1.10 |
| 240 V AC | OETLZT80A240AC | 1SCA022384R3330 | 1 | 1.10 |
| **L - types** | | | | |
| 24 V DC | OETLZT80L24DC | 1SCA022081R1280 | 1 | 1.10 |
| 48 V DC | OETLZT80L48DC | 1SCA022081R0800 | 1 | 1.10 |
| 60 V DC | OETLZT80L60DC | 1SCA022081R0470 | 1 | 1.10 |
| 110 V DC | OETLZT80L110DC | 1SCA022081R0040 | 1 | 1.10 |
| 220 V DC | OETLZT80L220DC | 1SCA022080R9620 | 1 | 1.10 |
| 110 V AC | OETLZT80L110AC | 1SCA022080R9200 | 1 | 1.10 |
| 220 V AC | OETLZT80L220AC | 1SCA022079R9640 | 1 | 1.10 |
| 230 V AC | OETLZT80L230AC | 1SCA022375R0240 | 1 | 1.10 |
| 240 V AC | OETLZT80L240AC | 1SCA022496R2040 | 1 | 1.10 |

## Mechanism interlock kits & Electrical interlocks

OT200...2500 switch-disconnectors can be interlocked in the OFF position using padlocks and by using a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max dia. 8 mm.

| | | | | |
|---|---|---|---|---|
| **Interlocking in the OFF position** | | | | |
| OT200 ... 250_ | OTZT1A | 1SCA106522R1001 | 1 | 0.21 |
| OT315 ... 400_ | OTZT2A | 1SCA106523R1001 | 1 | 0.57 |
| OT600U, OT630 ... 800E | OTZT3A | 1SCA106525R1001 | 1 | 0.75 |
| OT800U, OT1000 ... 2500_ | OTZT4A | 1SCA106526R1001 | 1 | 1.15 |
| **Interlocking in the OFF & ON positions** | | | | |
| OT200 ... 250_ | OTZT1L | 1SCA106527R1001 | 1 | 0.21 |
| OT315 ... 400_ | OTZT2L | 1SCA106529R1001 | 1 | 0.57 |
| OT600U, OT630 ... 800E | OTZT3L | 1SCA106530R1001 | 1 | 0.75 |
| OT800U, OT1000 ... 2500_ | OTZT4L | 1SCA106531R1001 | 1 | 1.15 |

## Coils

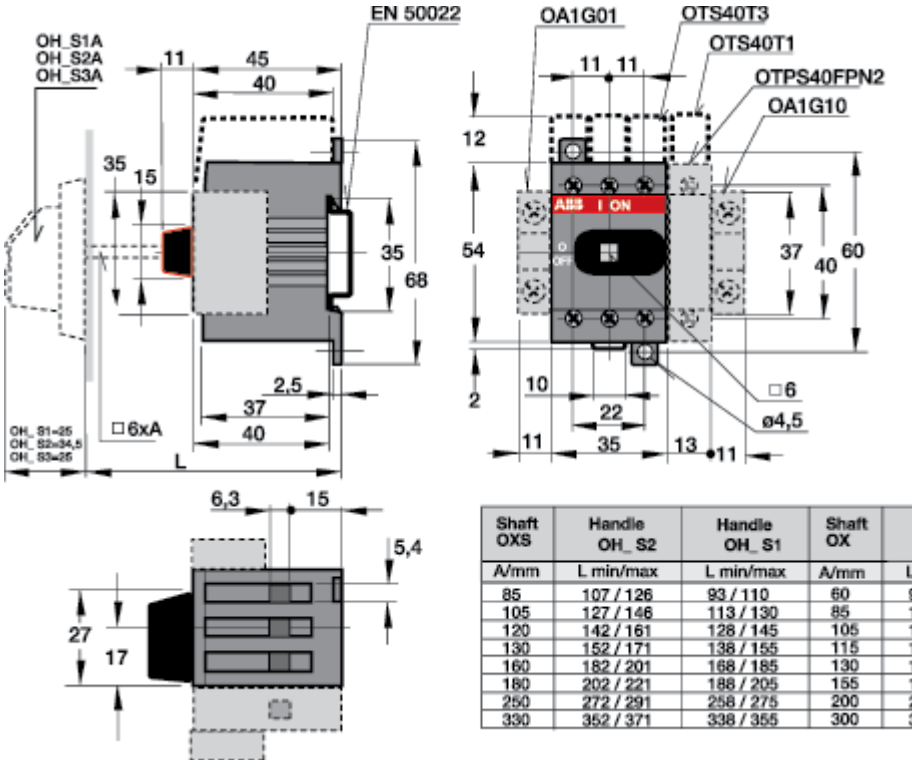
By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF position or both in the OFF and ON positions. The electrical interlock works using the “closed circuit principle”, meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON position and switches with L-type interlocks cannot be turned to the ON or OFF positions.

| | | | | |
|---|---|---|---|---|
| **AC coils** | | | | |
| 24 VAC, 60Hz | PDAL2/24AC60Hz | 1SCA111350R1001 | 1 | 0.15 |
| 110 VAC, 50Hz | PDAL2/110AC50Hz | 1SCA106543R1001 | 1 | 0.15 |
| 110 VAC, 60Hz | PDAL2/110AC60Hz | 1SCA107100R1001 | 1 | 0.15 |
| 120 VAC, 60 Hz | PDAL2/120AC60Hz | 1SCA111353R1001 | 1 | 0.15 |
| 208 VAC, 60Hz | PDAL2/208AC60Hz | 1SCA107101R1001 | 1 | 0.15 |
| 230 VAC, 50Hz | PDAL2/230AC50Hz | 1SCA107102R1001 | 1 | 0.15 |
| 240 VAC, 60Hz | PDAL2/240AC60Hz | 1SCA111356R1001 | 1 | 0.15 |
| **DC coils** | | | | |
| 24 VDC | PDAL2/24DC | 1SCA106542R1001 | 1 | 0.15 |
| 48 VDC | PDAL2/48DC | 1SCA107103R1001 | 1 | 0.15 |
| 60 VDC | PDAL2/60DC | 1SCA107104R1001 | 1 | 0.15 |
| 110 VDC | PDAL2/110DC | 1SCA107105R1001 | 1 | 0.15 |
| 125 VDC | PDAL2/125DC | 1SCA111338R1001 | 1 | 0.15 |
| 220 VDC | PDAL2/220DC | 1SCA112503R1001 | 1 | 0.15 |

## Technical data for the coil

| | | |
|---|---|---|
| Operating voltage | | U=0.7...1.1xUn |
| Operating ambient temperature | | -40°C...+65°C |
| Power consumption | with AC | 6.5W |
| | with DC | 9 VA |

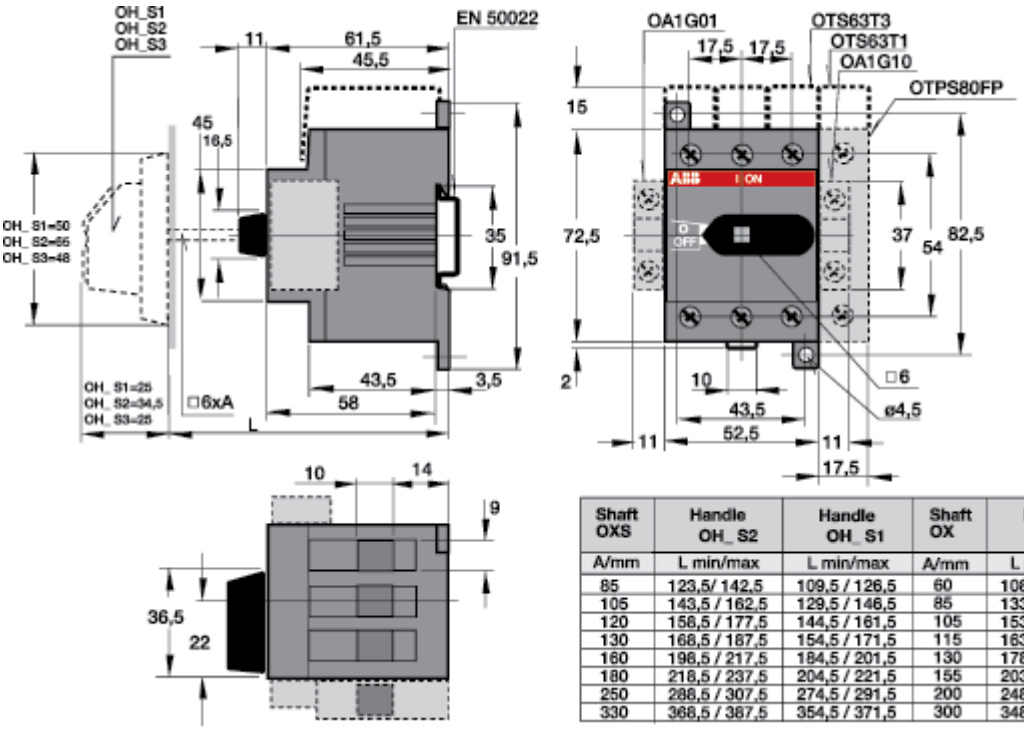
## OT 16...40F3, _F4




| Shaft OXS | Handle OH_S2 | Handle OH_S1 | Shaft OX | Handle OZ331_P |
|---|---|---|---|---|
| A/mm | L min/max | L min/max | A/mm | L min/max |
| 85 | 107 / 126 | 93 / 110 | 60 | 92 / 120 |
| 105 | 127 / 146 | 113 / 130 | 85 | 117 / 145 |
| 120 | 142 / 161 | 128 / 145 | 105 | 137 / 165 |
| 130 | 152 / 171 | 138 / 155 | 115 | 147 / 175 |
| 160 | 182 / 201 | 168 / 185 | 130 | 162 / 190 |
| 180 | 202 / 221 | 188 / 205 | 155 | 187 / 215 |
| 250 | 272 / 291 | 258 / 275 | 200 | 232 / 260 |
| 330 | 352 / 371 | 338 / 355 | 300 | 332 / 360 |

M00157/OT16-40F3_F4 C

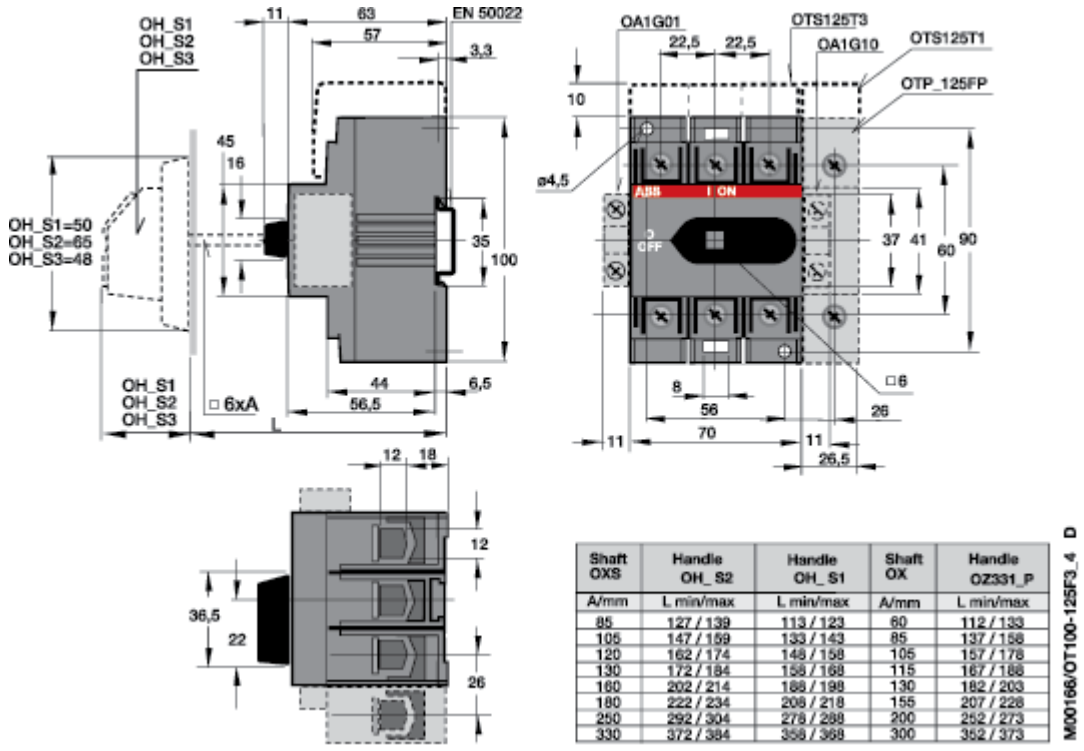
## OT 63...80F3, _F4




| Shaft OXS | Handle OH_S2 | Handle OH_S1 | Shaft OX | Handle OZ331_P |
|---|---|---|---|---|
| A/mm | L min/max | L min/max | A/mm | L min/max |
| 85 | 123,5/ 142,5 | 109,5 / 126,5 | 60 | 108,5 / 136,5 |
| 105 | 143,5 / 162,5 | 129,5 / 146,5 | 85 | 133,5 / 161,5 |
| 120 | 158,5 / 177,5 | 144,5 / 161,5 | 105 | 153,5 / 181,5 |
| 130 | 168,5 / 187,5 | 154,5 / 171,5 | 115 | 163,5 / 191,5 |
| 160 | 198,5 / 217,5 | 184,5 / 201,5 | 130 | 178,5 / 206,5 |
| 180 | 218,5 / 237,5 | 204,5 / 221,5 | 155 | 203,5 / 231,5 |
| 250 | 288,5 / 307,5 | 274,5 / 291,5 | 200 | 248,5 / 276,5 |
| 330 | 368,5 / 387,5 | 354,5 / 371,5 | 300 | 348,5 / 376,5 |

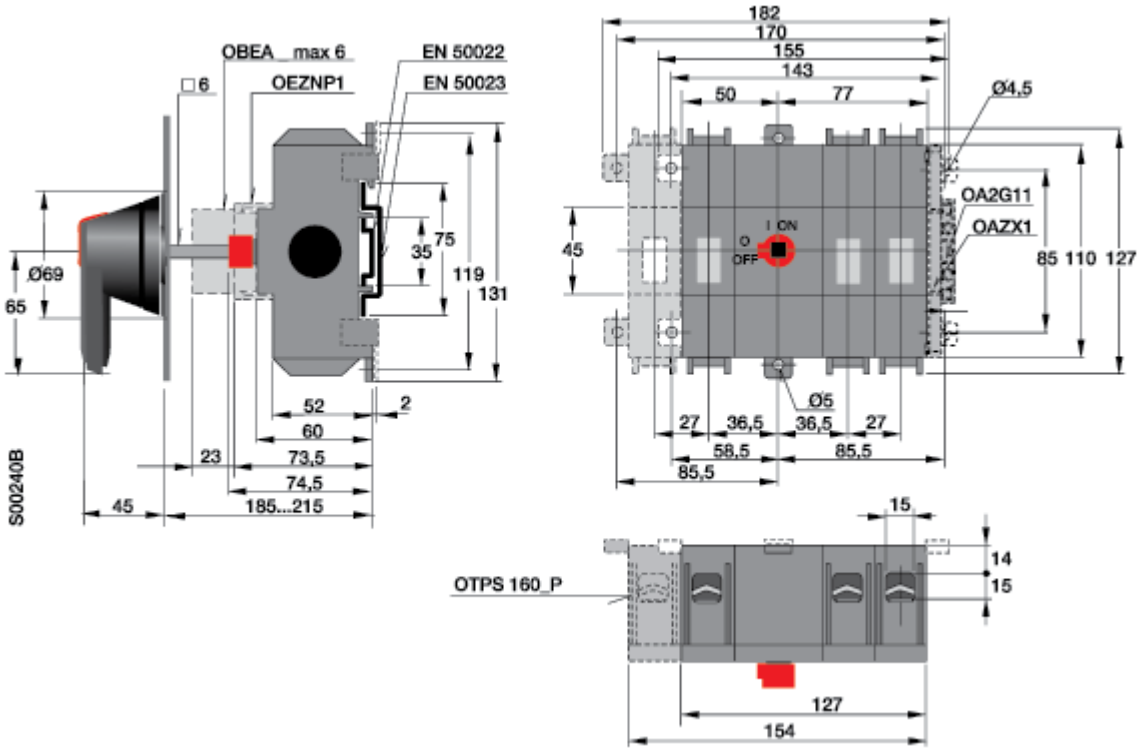
M00161/OT63-80F3_F4 C

## OT 30, 60, 100, 125F3, _F4

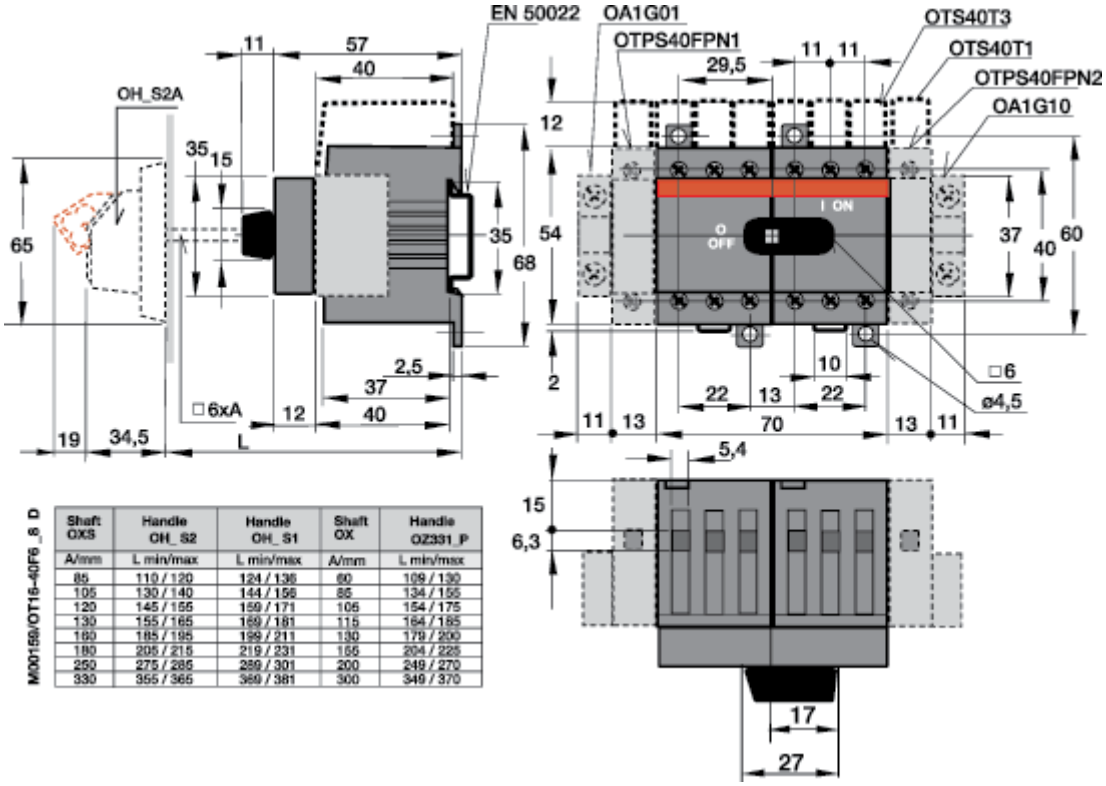



| Shaft OXS | Handle OH_S2 | Handle OH_S1 | Shaft OX | Handle OZ331_P |
|---|---|---|---|---|
| A/mm | L min/max | L min/max | A/mm | L min/max |
| 85 | 127 / 139 | 113 / 123 | 60 | 112 / 133 |
| 105 | 147 / 159 | 133 / 143 | 85 | 137 / 158 |
| 120 | 162 / 174 | 148 / 158 | 105 | 157 / 178 |
| 130 | 172 / 184 | 158 / 168 | 115 | 167 / 188 |
| 160 | 202 / 214 | 188 / 198 | 130 | 182 / 203 |
| 180 | 222 / 234 | 208 / 218 | 155 | 207 / 228 |
| 250 | 292 / 304 | 278 / 288 | 200 | 252 / 273 |
| 330 | 372 / 384 | 358 / 368 | 300 | 352 / 373 |

## OT 160E3, -4



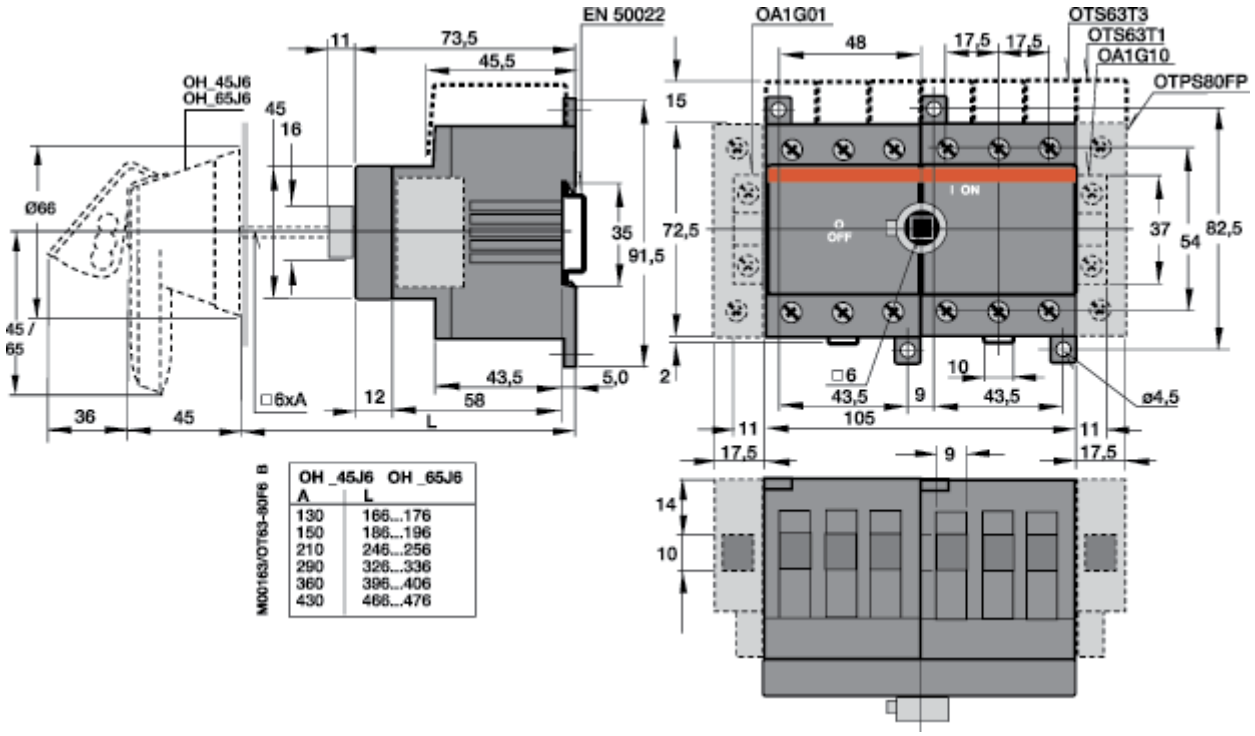
## OT 16...40F6, _F8




M00159/OT16-40F6_S_D

| Shaft OXS | Handle OH_S2 | Handle OH_S1 | Shaft OX | Handle OZ331_P |
|---|---|---|---|---|
| A/mm | L min/max | L min/max | A/mm | L min/max |
| 85 | 110 / 120 | 124 / 136 | 60 | 109 / 130 |
| 105 | 130 / 140 | 144 / 156 | 85 | 134 / 155 |
| 120 | 145 / 155 | 159 / 171 | 105 | 154 / 175 |
| 130 | 155 / 165 | 169 / 181 | 115 | 164 / 185 |
| 160 | 185 / 195 | 199 / 211 | 130 | 179 / 200 |
| 180 | 205 / 215 | 219 / 231 | 155 | 204 / 225 |
| 250 | 275 / 285 | 289 / 301 | 200 | 249 / 270 |
| 330 | 355 / 365 | 369 / 381 | 300 | 349 / 370 |

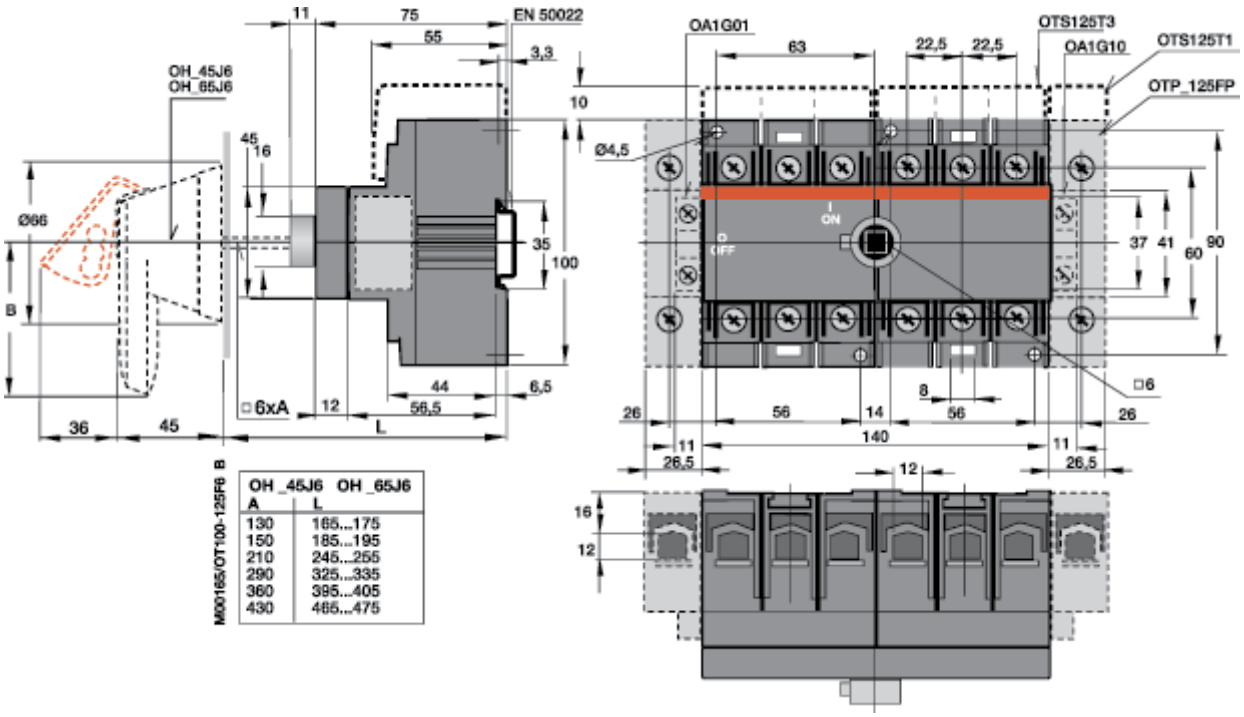
## OT 63...80F6, _F8




M00163/OT63-80F6_B

| OH_45J6 OH_65J6 A | L |
|---|---|
| 130 | 166...176 |
| 150 | 186...196 |
| 210 | 246...256 |
| 290 | 326...336 |
| 360 | 396...406 |
| 430 | 466...476 |

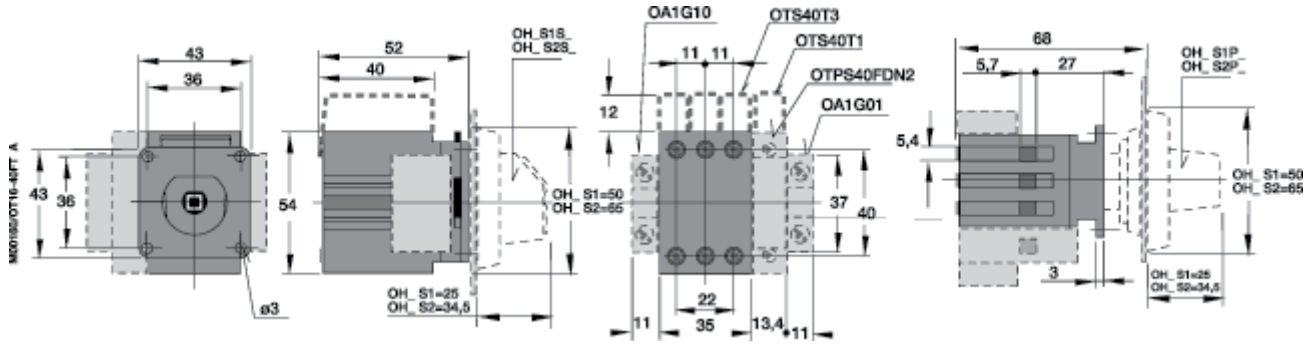
## OT 100...125F6, _F8




| OH_45J6 A | OH_65J6 L |
|---|---|
| 130 | 165...175 |
| 150 | 185...195 |
| 210 | 245...255 |
| 290 | 325...335 |
| 360 | 395...405 |
| 430 | 465...475 |

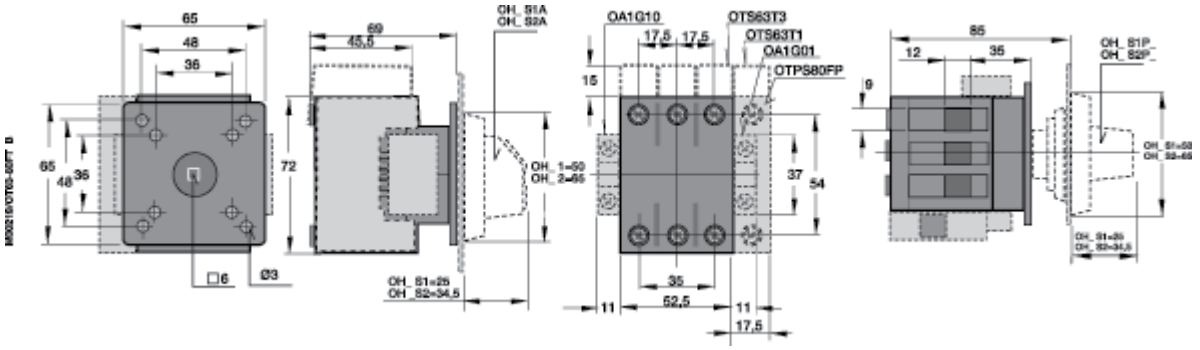
M00165/OT100-125F6 B

## OT 16...40FT3, _FT4



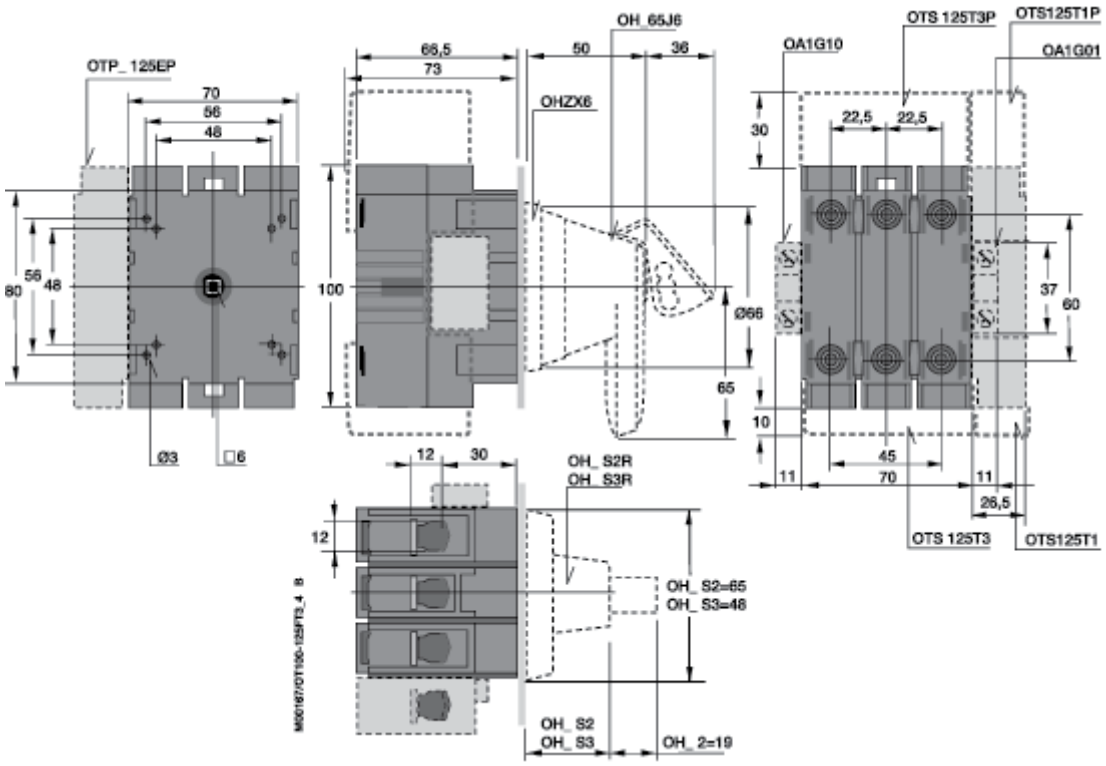

M00160/OT16-40FT A

## OT 63...80FT3, _FT4

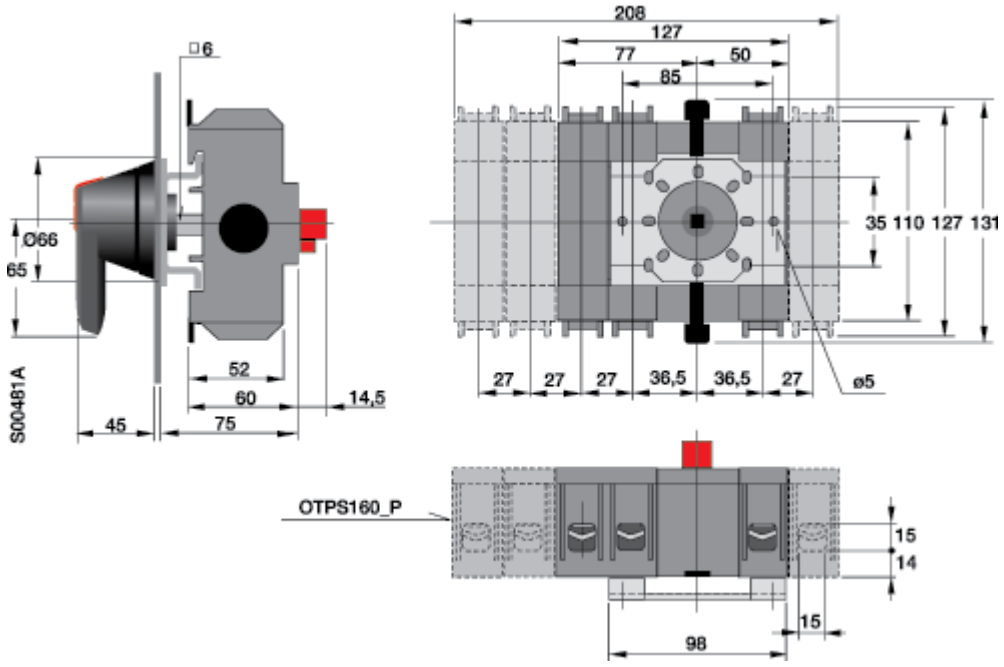



M00215/OT63-80FT B

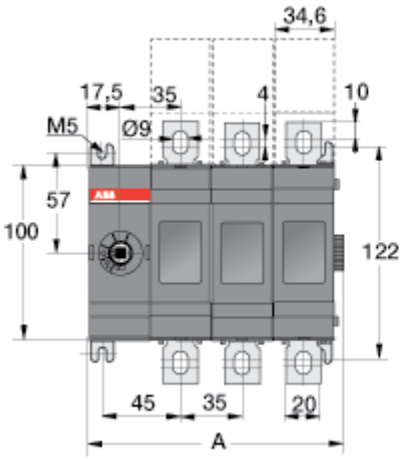
## OT 100...125FT3, _FT4

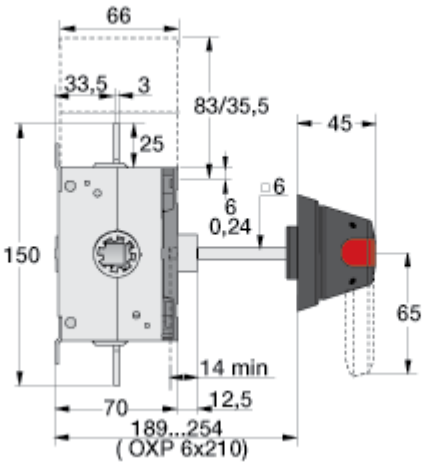


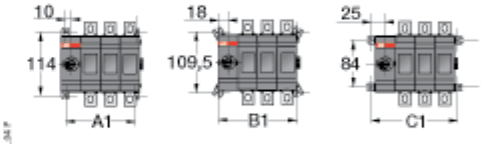

## OT 160ET_



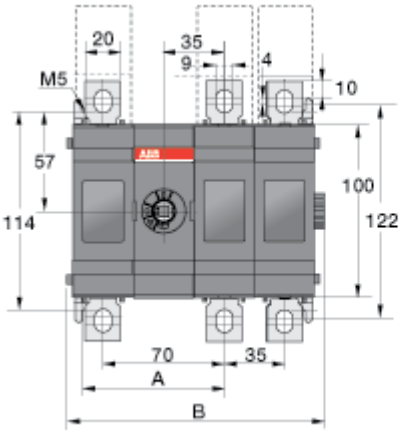
## OT 200_P and OT 250_P

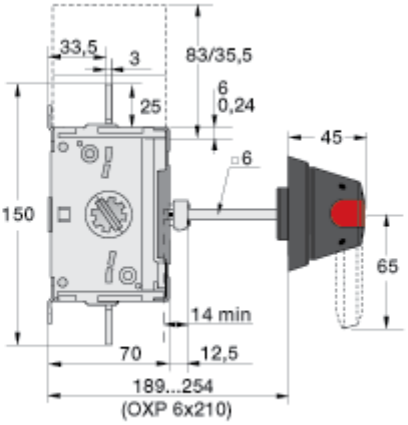


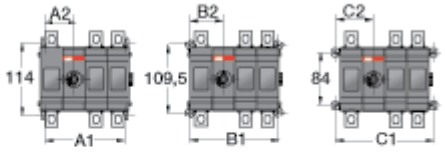




| | OT200 ... OT250 | | | |
|---|---|---|---|---|
| | E01 | E02 | E03 | E04 |
| A | 75,5 | 110,5 | 145,5 | 180,5 |
| A1 | 55 | 90 | 125 | 160 |
| B1 | 71 | 108 | 141 | 176 |
| C1 | 85 | 120 | 155 | 190 |

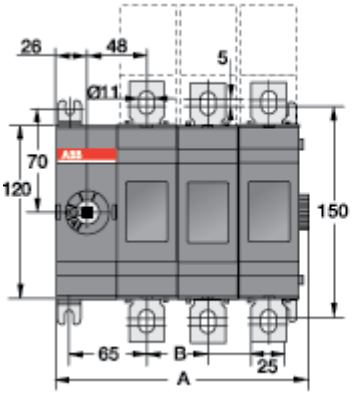


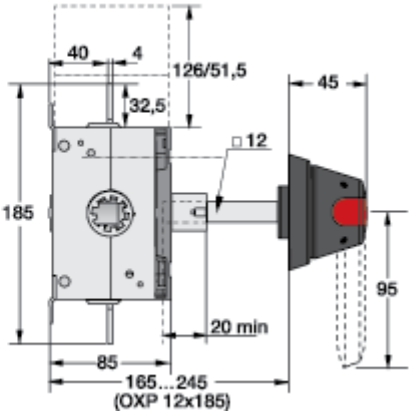



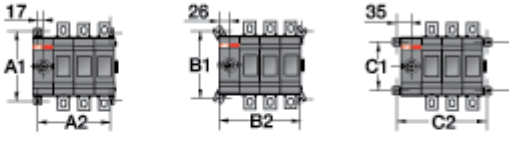




| | OT200/250 | | | |
|---|---|---|---|---|
| | E11 | E12 | E13 | E22 |
| A | 80 | 80 | 80 | 115 |
| B | 115,5 | 150,5 | 185,5 | 185,5 |
| A1 | 90 | 125 | 160 | 160 |
| A2 | 45 | 45 | 45 | 80 |
| B1 | 106 | 141 | 141 | 176 |
| B2 | 53 | 53 | 53 | 88 |
| C1 | 120 | 155 | 190 | 190 |
| C2 | 60 | 60 | 60 | 95 |

## OT 315_P and OT 400_P

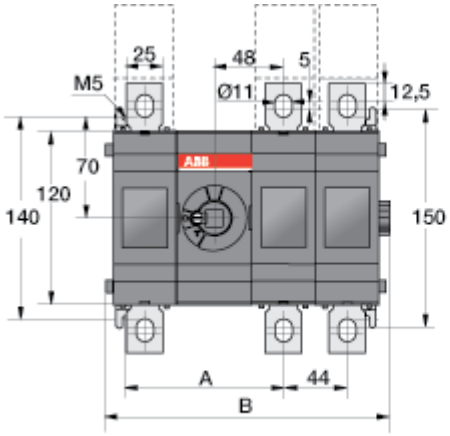


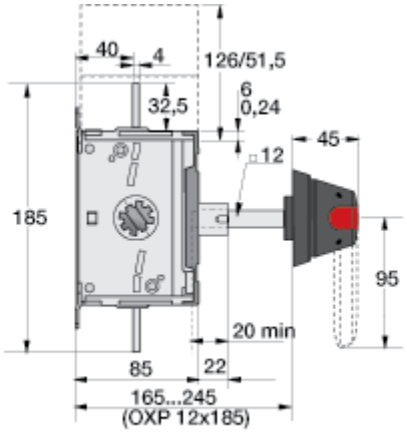



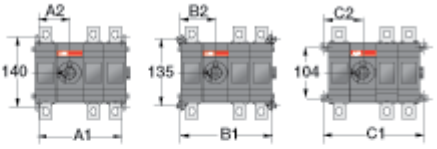




| | OT315 ... OT400 | | | |
|---|---|---|---|---|
| | E01 | E02 | E03 | E04 |
| A | 103 | 147 | 191 | 235 |
| B | - | 44 | 44 | 44 |
| A1 | 140 | 140 | 140 | 140 |
| A2 | 78 | 122 | 166 | 210 |
| B1 | 135 | 135 | 135 | 135 |
| B2 | 96 | 140 | 184 | 228 |
| C1 | 104 | 104 | 104 | 104 |
| C2 | 114 | 158 | 202 | 246 |

## OT 315_P and 400_P



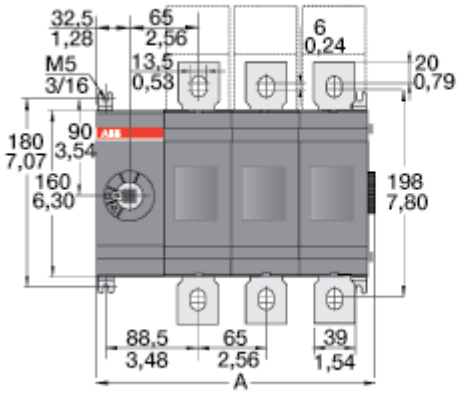



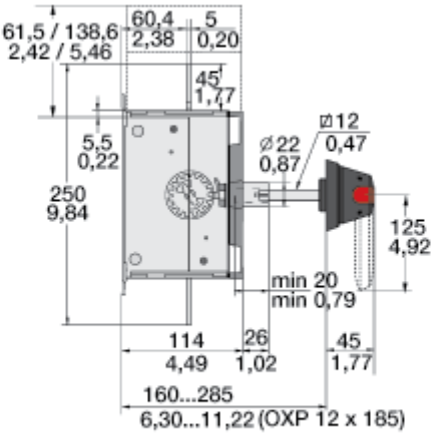



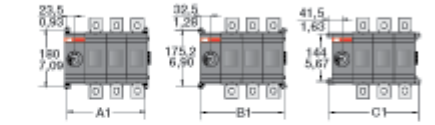

M60018/OT315_400E11_22 E

| | OT315/400 | | | |
|---|---|---|---|---|
| | E11 | E12 | E13 | E22 |
| A | 109 | 109 | 109 | 153 |
| B | 152 | 196 | 240 | 240 |
| A1 | 122 | 166 | 210 | 210 |
| A2 | 61 | 61 | 61 | 105 |
| B1 | 140 | 184 | 228 | 228 |
| B2 | 70 | 70 | 70 | 114 |
| C1 | 158 | 202 | 246 | 246 |
| C2 | 79 | 79 | 79 | 123 |

## OT 630_P and OT 800_P

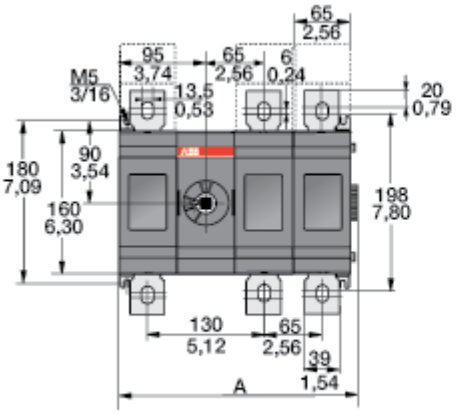


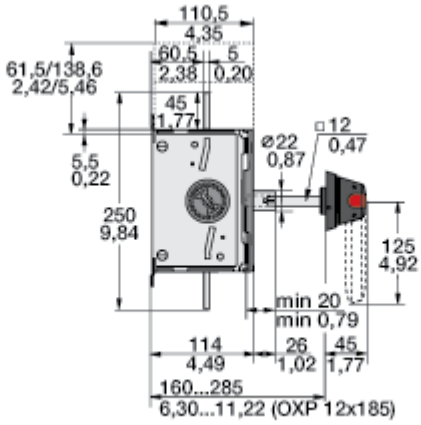



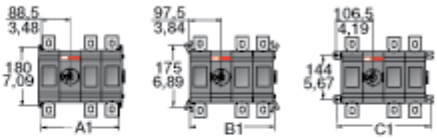




C00013_ / 1SDT630_890_01_04 B

| | OT 600 / 630 / 800 | | | |
|---|---|---|---|---|
| | E01 / U01 | E02 / U02 | E03 / U03 | E04 / U04 |
| | mm / in | mm / in | mm / in | mm / in |
| A | 136 / 5,35 | 201 / 7,91 | 266 / 10,47 | 331 / 13,03 |
| A1 | 112 / 4,41 | 177 / 6,97 | 242 / 9,53 | 307 / 12,09 |
| B1 | 130 / 5,12 | 195 / 7,68 | 260 / 10,24 | 325 / 12,80 |
| C1 | 148 / 5,83 | 213 / 8,39 | 278 / 10,95 | 343 / 13,50 |



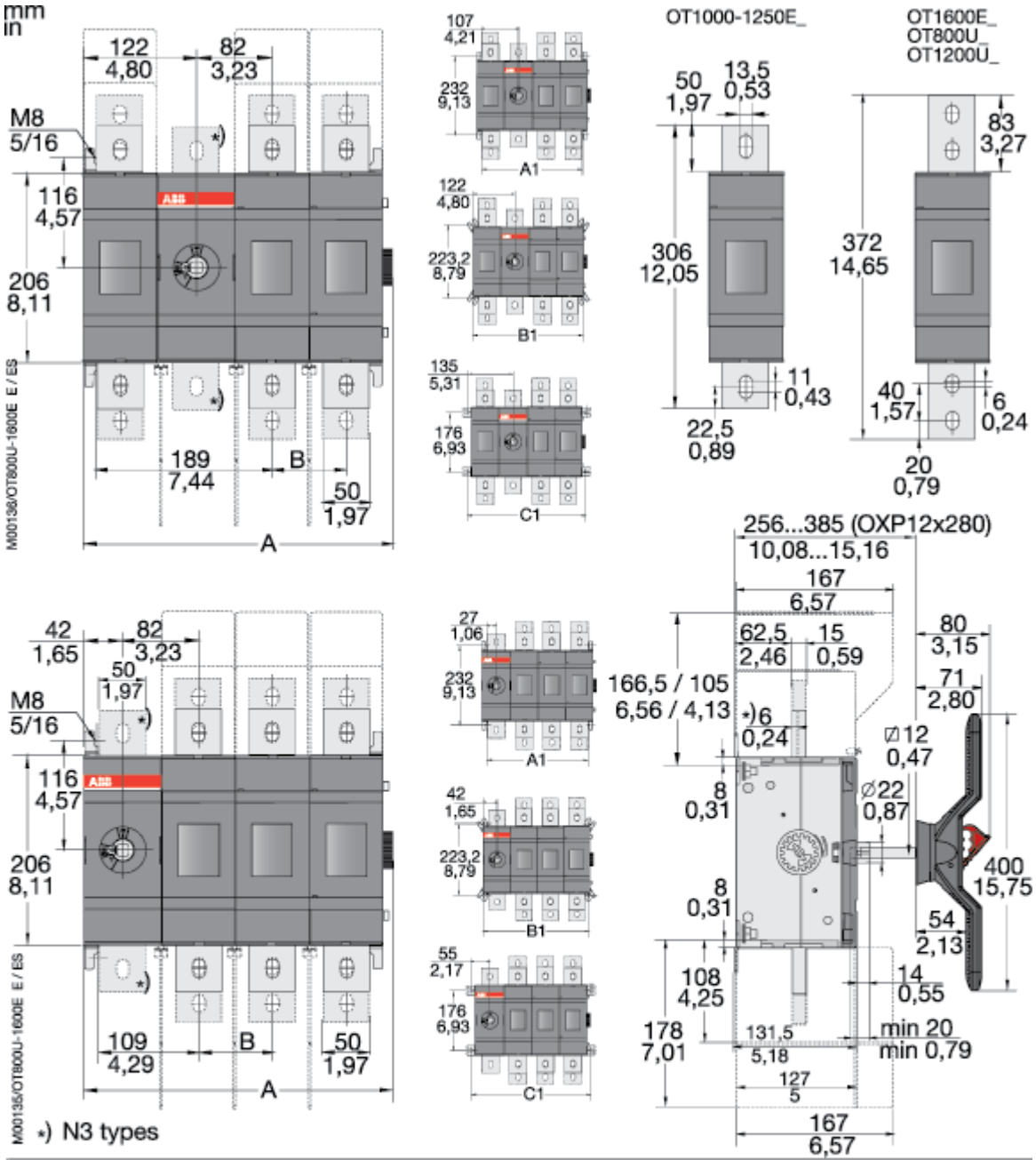




M60082 / OT630-800_11_22 C

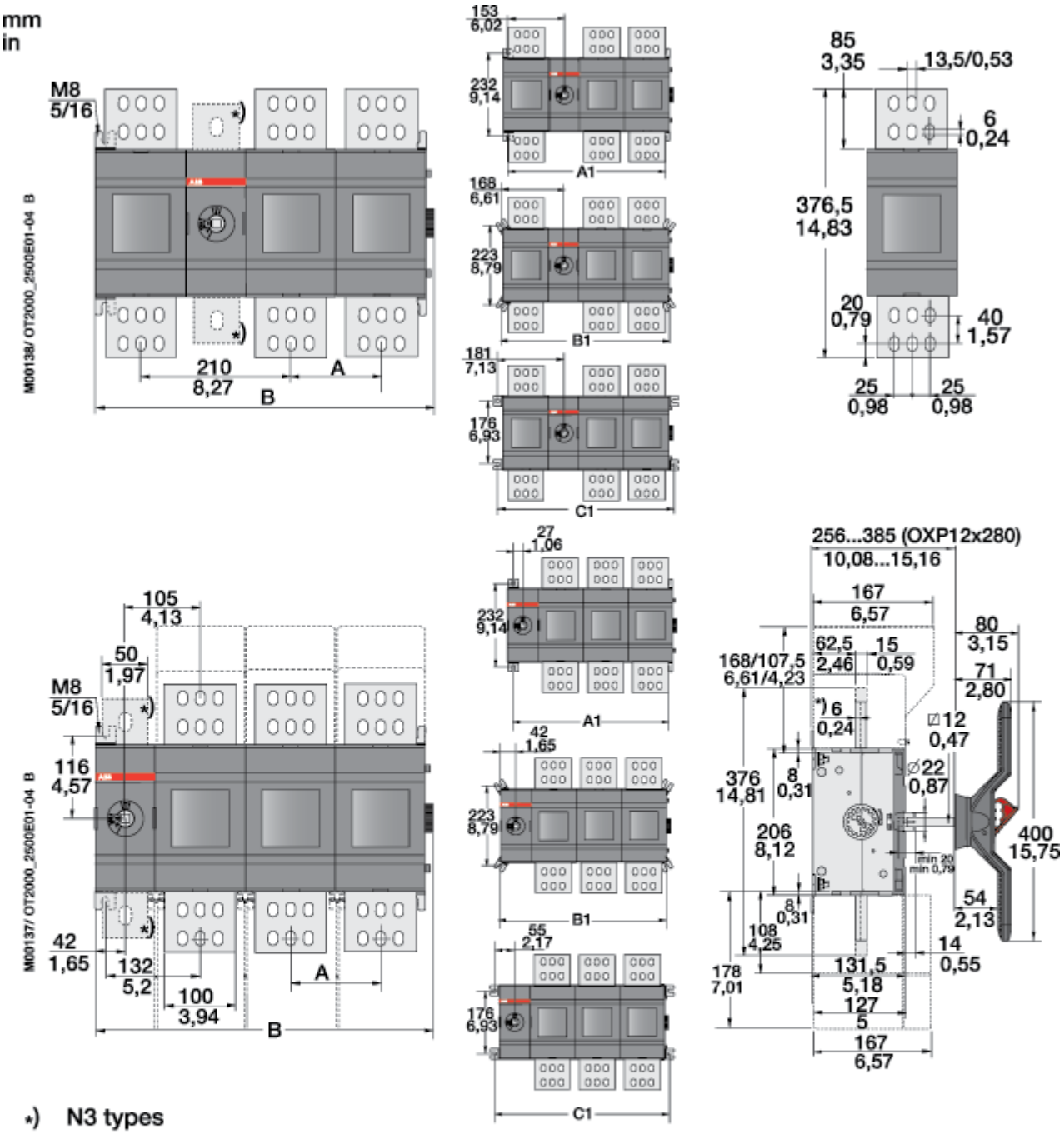
| | OT600/630/800 | | | |
|---|---|---|---|---|
| | E11/U11 | E12/U12 | E13/U13 | E22/U22 |
| | mm/in | mm/in | mm/in | mm/in |
| A | 201/7,91 | 266/10,47 | 331/13,03 | 331/13,03 |
| A1 | 177/6,97 | 242/9,53 | 307/12,09 | 307/12,09 |
| B1 | 195/7,68 | 260/10,24 | 325/12,80 | 325/12,80 |
| C1 | 213/8,39 | 278/10,95 | 343/13,50 | 343/13,50 |

## OT 1000_P, OT 1250_P, OT 1600_P and OT 800U_P, OT 1200U_P




| OT 1000/ 1250/ 1600E_ , OT 800/ 1200U_ | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 01 | 02 | 03 | 04 | 11 | 12 | 13 | 22 | 03W4 | 04W4 | 03W8 | 04W8 |
| A | mm | 174,50 | 254,50 | 334,50 | 414,50 | 254,50 | 334,50 | 414,50 | 414,50 | 454,50 | 594,50 | 544,50 | 729,50 |
| | in | 6,87 | 10,02 | 13,17 | 16,32 | 10,02 | 13,17 | 16,32 | 16,32 | 17,89 | 23,41 | 21,44 | 28,72 |
| B | mm | | 80 | 80 | 80 | | 80 | 80 | 80 | 140 | 140 | 185 | 185 |
| | in | | 3,15 | 3,15 | 3,15 | | 3,15 | 3,15 | 3,15 | 5,51 | 5,51 | 7,28 | 7,28 |
| A1 | mm | 134 | 214 | 294 | 374 | 214 | 294 | 374 | 374 | 414 | 554 | 504 | 689 |
| | in | 5,28 | 8,43 | 11,57 | 14,72 | 8,43 | 11,57 | 14,72 | 14,72 | 16,30 | 21,81 | 19,84 | 27,13 |
| B1 | mm | 164 | 244 | 324 | 404 | 244 | 324 | 404 | 404 | 444 | 584 | 534 | 719 |
| | in | 6,46 | 9,61 | 12,76 | 15,91 | 9,61 | 12,76 | 15,91 | 15,91 | 17,48 | 22,99 | 21,02 | 28,31 |
| C1 | mm | 190 | 270 | 350 | 430 | 270 | 350 | 430 | 430 | 470 | 610 | 560 | 745 |
| | in | 7,48 | 10,63 | 13,78 | 16,93 | 10,63 | 13,78 | 16,93 | 16,93 | 18,50 | 24,02 | 22,05 | 29,33 |

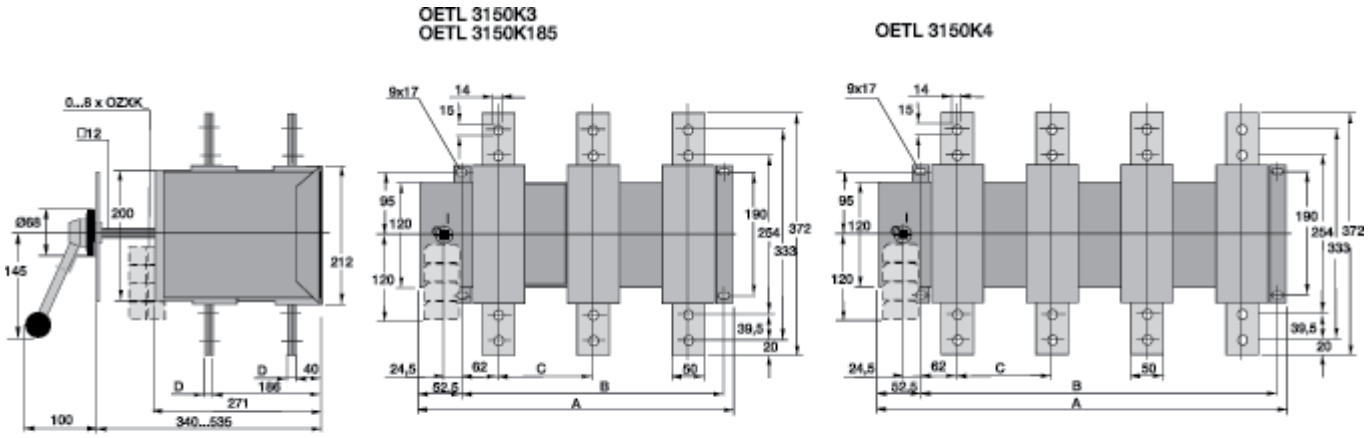
## OT 2000_P and OT 2500_P




*) N3 types

| OT 2000 / 2500E_ | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 01 | 02 | 03 | 04 | 11 | 12 | 13 | 22 | 03W4 | 04W4 | 03W8 | 04W8 |
| A | mm<br>in | | 126<br>4,96 | 126<br>4,96 | 126<br>4,96 | | 126<br>4,96 | 126<br>4,96 | 126<br>4,96 | 140<br>5,51 | 140<br>5,51 | 185<br>7,28 | 185<br>7,28 |
| B | mm<br>in | 220,5<br>8,68 | 346,5<br>13,64 | 472,5<br>18,60 | 598,5<br>23,56 | 346,5<br>13,64 | 472,5<br>18,60 | 598,5<br>23,56 | 598,5<br>23,56 | 500,5<br>19,70 | 640,5<br>25,22 | 590,5<br>23,25 | 775,5<br>30,53 |
| A1 | mm<br>in | 180<br>7,09 | 306<br>12,05 | 432<br>17,01 | 558<br>21,97 | 306<br>12,05 | 432<br>17,01 | 558<br>21,97 | 558<br>21,97 | 460<br>18,11 | 600<br>23,62 | 550<br>21,65 | 735<br>28,94 |
| B1 | mm<br>in | 210<br>8,27 | 336<br>13,23 | 462<br>18,19 | 588<br>23,15 | 336<br>13,23 | 462<br>18,19 | 588<br>23,15 | 588<br>23,15 | 490<br>19,29 | 630<br>24,80 | 580<br>22,83 | 765<br>30,12 |
| C1 | mm<br>in | 236<br>9,29 | 362<br>14,25 | 488<br>19,21 | 614<br>24,17 | 362<br>14,25 | 488<br>19,21 | 614<br>24,17 | 614<br>24,17 | 516<br>20,31 | 656<br>25,83 | 606<br>23,86 | 791<br>31,14 |

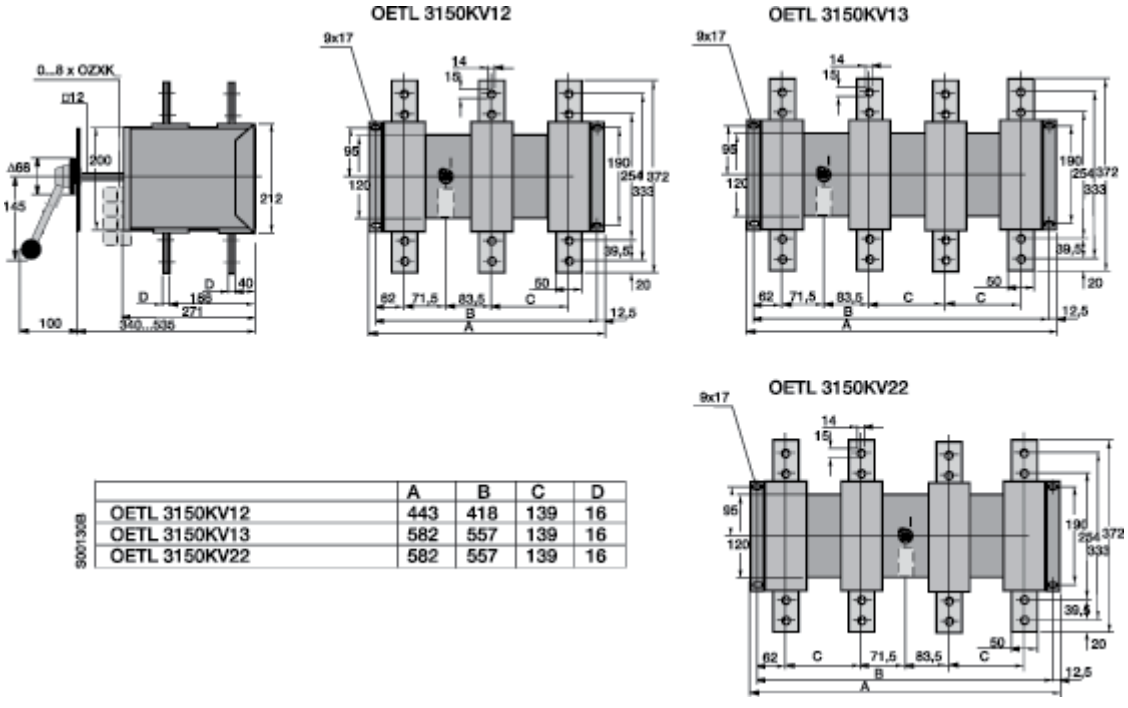
## OETL 3150 K_




S00667A

| | A | B | C | D |
|---|---|---|---|---|
| OETL 3150K3 | 468 | 403 | 139 | 16 |
| OETL 3150K185 | 562 | 497 | 186 | 16 |
| OETL 3150K4 | 607 | 542 | 139 | 16 |

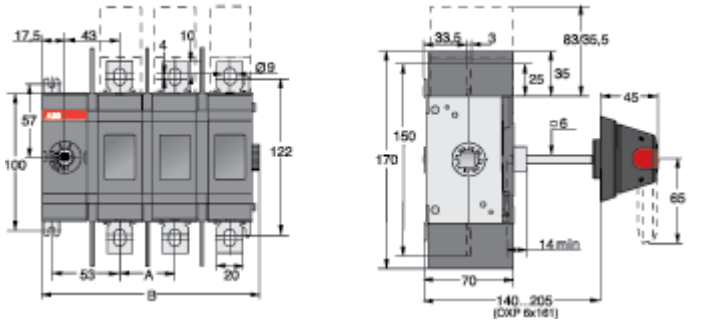
## OETL 3150 KV_

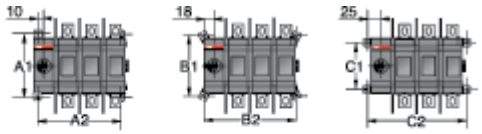



S00130B

| | A | B | C | D |
|---|---|---|---|---|
| OETL 3150KV12 | 443 | 418 | 139 | 16 |
| OETL 3150KV13 | 582 | 557 | 139 | 16 |
| OETL 3150KV22 | 582 | 557 | 139 | 16 |

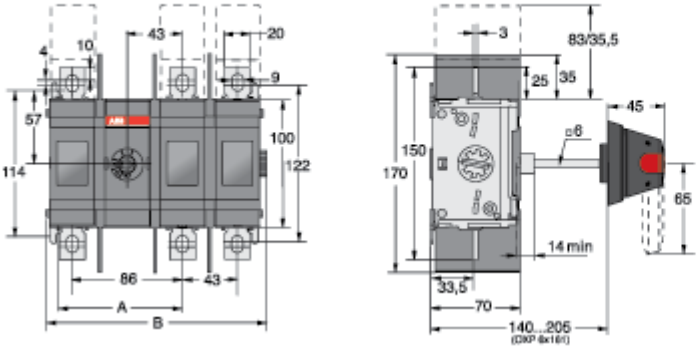
## OT 200_WP and OT 250_WP

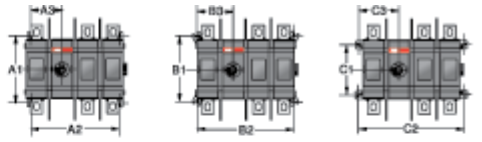



| | OT200/250 | | | |
|---|---|---|---|---|
| | E01W | E02W | E03W | E04W |
| | mm | mm | mm | mm |
| A | - | 43 | 43 | 43 |
| B | 83,5 | 126,5 | 169,5 | 212,5 |
| A1 | 114 | 114 | 114 | 114 |
| A2 | 63 | 106 | 149 | 192 |
| B1 | 109,5 | 109,5 | 109,5 | 109,5 |
| B2 | 79 | 122 | 165 | 208 |
| C1 | 84 | 84 | 84 | 84 |
| C2 | 93 | 136 | 179 | 222 |

M00078/OT250E01_04 W A

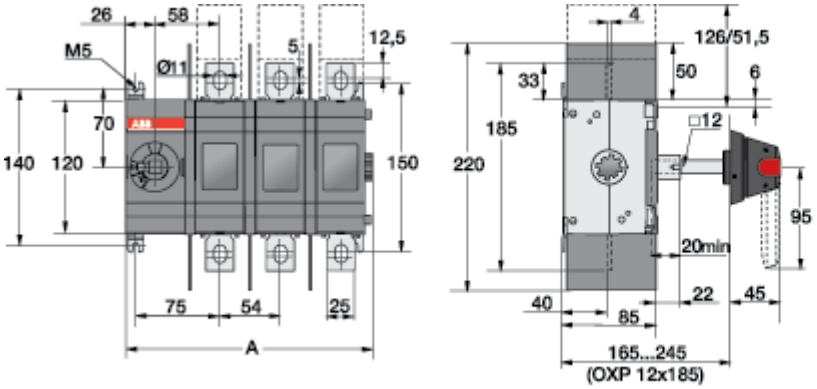


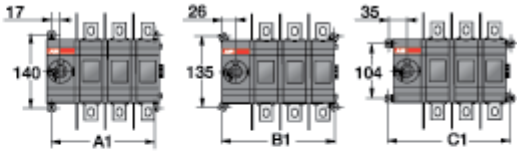




| | OT 200/250 | | | |
|---|---|---|---|---|
| | mm | mm | mm | mm |
| | E11W | E12W | E13W | E22W |
| A | 96 | 96 | 96 | 139 |
| B | 131,5 | 174,5 | 217,5 | 217,5 |
| A1 | 114 | 114 | 114 | 114 |
| A2 | 106 | 149 | 192 | 192 |
| A3 | 53 | 53 | 53 | 96 |
| B1 | 109,5 | 109,5 | 109,5 | 109,5 |
| B2 | 122 | 165 | 208 | 208 |
| B3 | 61 | 61 | 61 | 104 |
| C1 | 84 | 84 | 84 | 84 |
| C2 | 136 | 179 | 222 | 222 |
| C3 | 68 | 68 | 68 | 111 |

M00074/OT200E11_22W A

## OT 315_WP and OT 400_WP



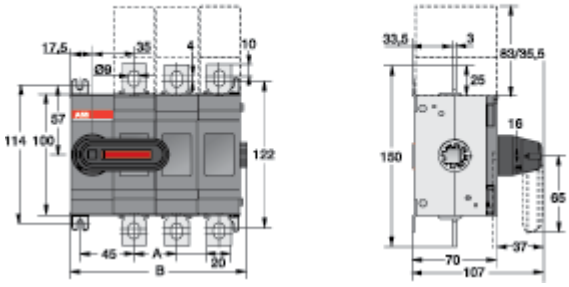



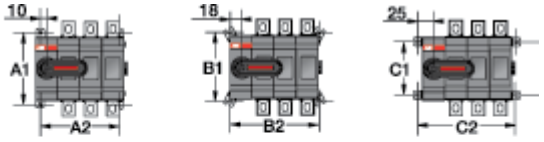

| | OT315/400 | | | |
|---|---|---|---|---|
| | E01W | E02W | E03W | E04W |
| | mm | mm | mm | mm |
| A | 113 | 167 | 221 | 275 |
| A1 | 88 | 142 | 196 | 250 |
| B1 | 106 | 160 | 214 | 268 |
| C1 | 124 | 178 | 232 | 286 |

M00019/OT400U/E01_04W/ES G

## OT 1000_W_P...OT 2000_W_P, see pages 49 and 50

## OT 200_K and OT 250_K

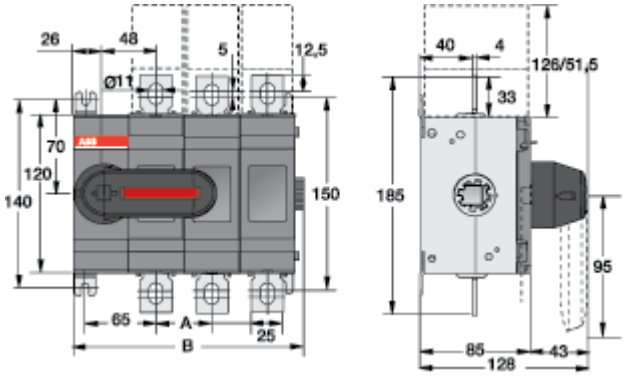


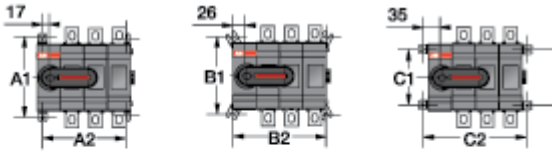




M00076 OT200_250E01_04K A

| | OT200_... OT250 | | | |
|---|---|---|---|---|
| | E01K | E02K | E03K | E04K |
| A | - | 35 | 35 | 35 |
| B | 75,5 | 110,5 | 145,5 | 180,5 |
| A1 | 114 | 114 | 114 | 114 |
| A2 | 55 | 90 | 125 | 160 |
| B1 | 109,5 | 109,5 | 109,5 | 109,5 |
| B2 | 71 | 106 | 141 | 176 |
| C1 | 84 | 84 | 84 | 84 |
| C2 | 85 | 120 | 155 | 190 |

## OT 315_K and OT 400_K

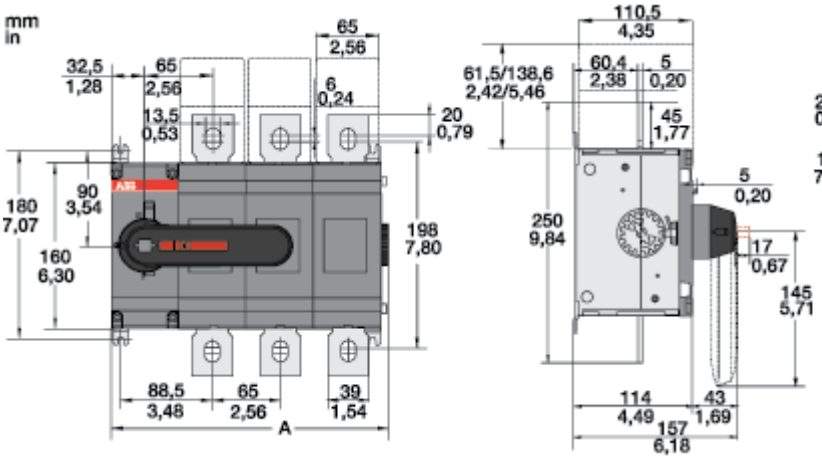


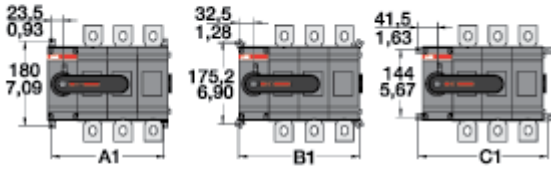




M00079 OT315_400E01_04K A

| | OT315_... OT400 | | | |
|---|---|---|---|---|
| | E01K | E02K | E03K | E04K |
| A | - | 44 | 44 | 44 |
| B | 103 | 147 | 191 | 235 |
| A1 | 140 | 140 | 140 | 140 |
| A2 | 78 | 122 | 166 | 210 |
| B1 | 135 | 135 | 135 | 135 |
| B2 | 96 | 140 | 184 | 228 |
| C1 | 104 | 104 | 104 | 104 |
| C2 | 114 | 158 | 202 | 246 |

## OT 630_K and OT 800_K

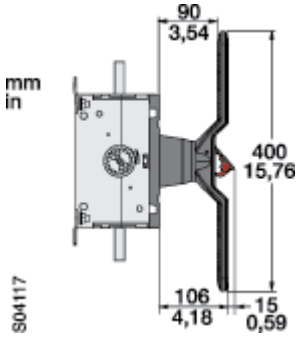


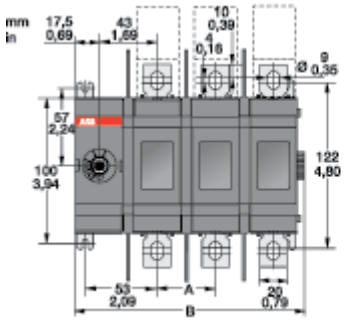

M00066 / 1SPD1926-630_01-04K/05 A

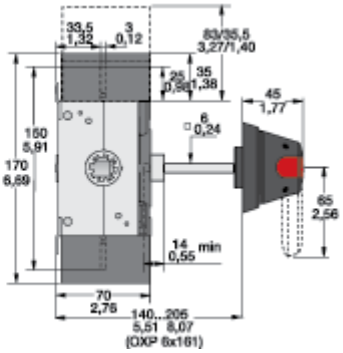
| | OT 630/800 | | | |
|---|---|---|---|---|
| | E01K | E02K | E03K | E04K |
| | mm/in | mm/in | mm/in | mm/in |
| A | 136/5,35 | 201/7,91 | 266/10,47 | 331/13,03 |
| A1 | 112/4,41 | 177/6,97 | 242/9,53 | 307/12,09 |
| B1 | 130/5,12 | 195/7,68 | 260/10,24 | 325/12,80 |
| C1 | 148/5,83 | 213/8,39 | 278/10,95 | 343/13,50 |

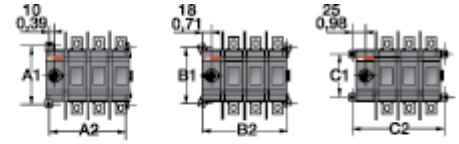
Other switch dimensions, please see pages 49 and 50



## OT 200U_P



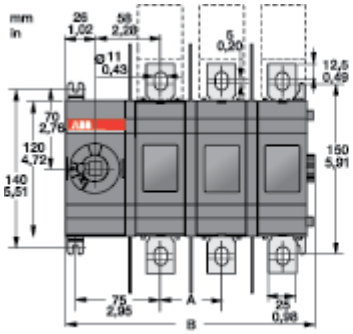



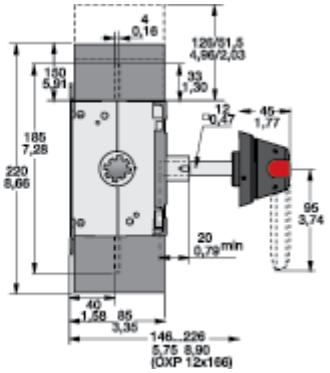



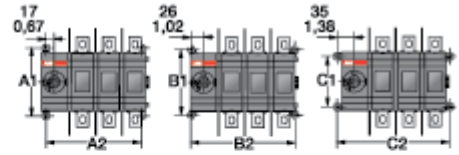

M00006/OT200U01_04 E

| | OT200 | | | |
|---|---|---|---|---|
| | U01 | U02 | U03 | U04 |
| | mm / in | mm / in | mm / in | mm / in |
| A | - | 43 / 1,69 | 43 / 1,69 | 43 / 1,69 |
| B | 83,5 / 3,24 | 126,5 / 4,96 | 169,5 / 6,67 | 212,5 / 8,37 |
| A1 | 114 / 4,49 | 114 / 4,49 | 114 / 4,49 | 114 / 4,49 |
| A2 | 63 / 2,48 | 106 / 4,17 | 149 / 5,87 | 192 / 7,56 |
| B1 | 109,5 / 4,31 | 109,5 / 4,31 | 109,5 / 4,31 | 109,5 / 4,31 |
| B2 | 79 / 3,11 | 122 / 4,80 | 165 / 6,50 | 208 / 8,19 |
| C1 | 84 / 3,31 | 84 / 3,31 | 84 / 3,31 | 84 / 3,31 |
| C2 | 93 / 3,66 | 136 / 5,35 | 179 / 7,05 | 222 / 8,74 |

## OT 400U_P



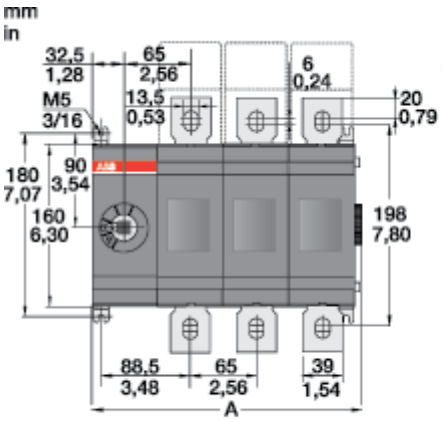



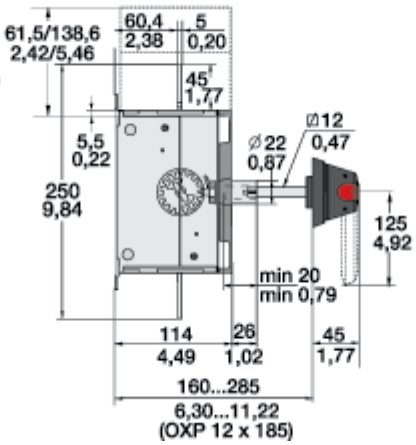



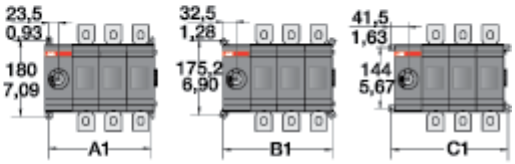

M00019/OT400U01_04 E

| | OT400 | | | |
|---|---|---|---|---|
| | U01 | U02 | U03 | U04 |
| | mm / in | mm / in | mm / in | mm / in |
| A | - | 54 / 2,13 | 54 / 2,13 | 54 / 2,13 |
| B | 113 / 4,45 | 167 / 6,58 | 221 / 8,70 | 275 / 10,83 |
| A1 | 140 / 5,51 | 140 / 5,51 | 140 / 5,51 | 140 / 5,51 |
| A2 | 88 / 3,47 | 142 / 5,59 | 196 / 7,72 | 250 / 9,84 |
| B1 | 135 / 5,32 | 135 / 5,32 | 135 / 5,32 | 135 / 5,32 |
| B2 | 106 / 4,17 | 160 / 4,17 | 214 / 8,43 | 268 / 10,55 |
| C1 | 104 / 4,09 | 104 / 4,09 | 104 / 4,09 | 104 / 4,09 |
| C2 | 124 / 4,88 | 178 / 7,01 | 232 / 9,13 | 286 / 11,27 |

## OT 600U_P



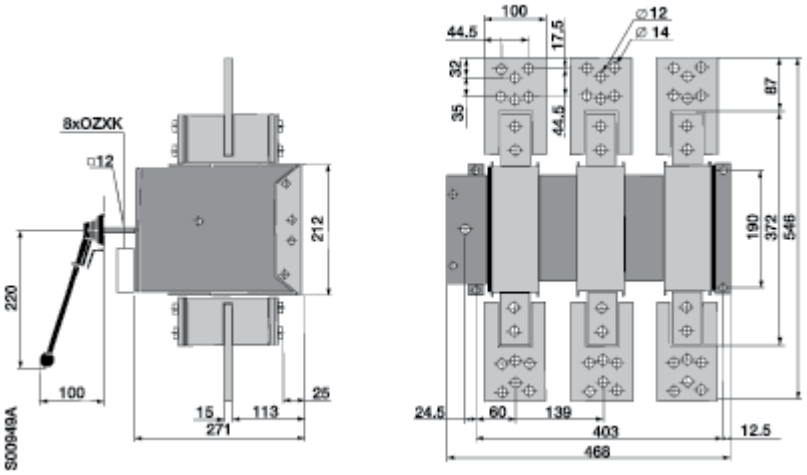



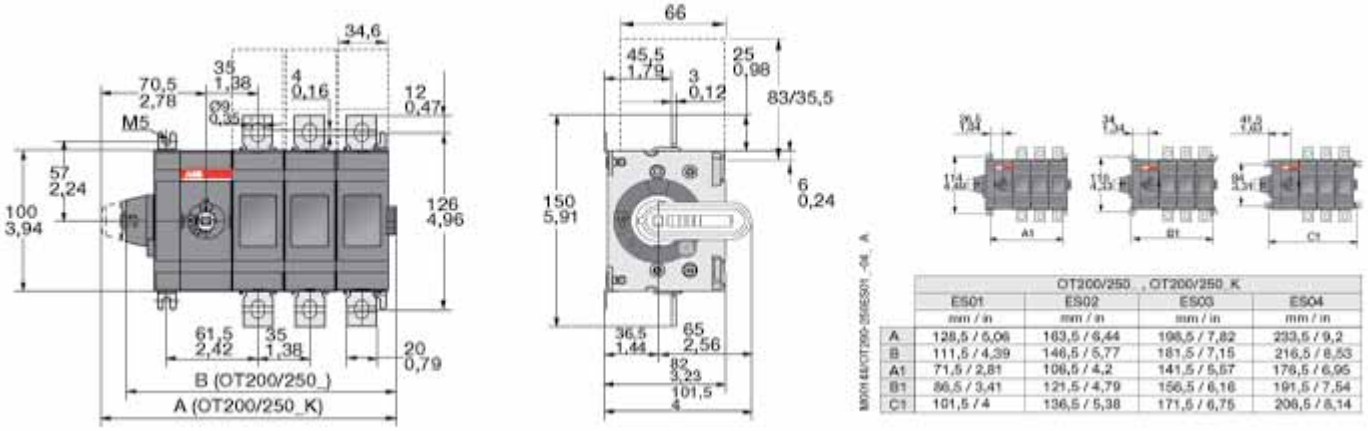

| | OT 600 | | | |
|---|---|---|---|---|
| | U01 | U02 | U03 | U04 |
| | mm/in | mm/in | mm/in | mm/in |
| A | 136/5,35 | 201/7,91 | 266/10,47 | 331/13,03 |
| A1 | 112/4,41 | 177/6,97 | 242/9,53 | 307/12,09 |
| B1 | 130/5,12 | 195/7,68 | 260/10,24 | 325/12,80 |
| C1 | 148/5,83 | 213/8,39 | 278/10,95 | 343/13,50 |

OT 800U_P...OT 1200U_P, see page 49

## OETL-NF1600P and OETL-NF2000P

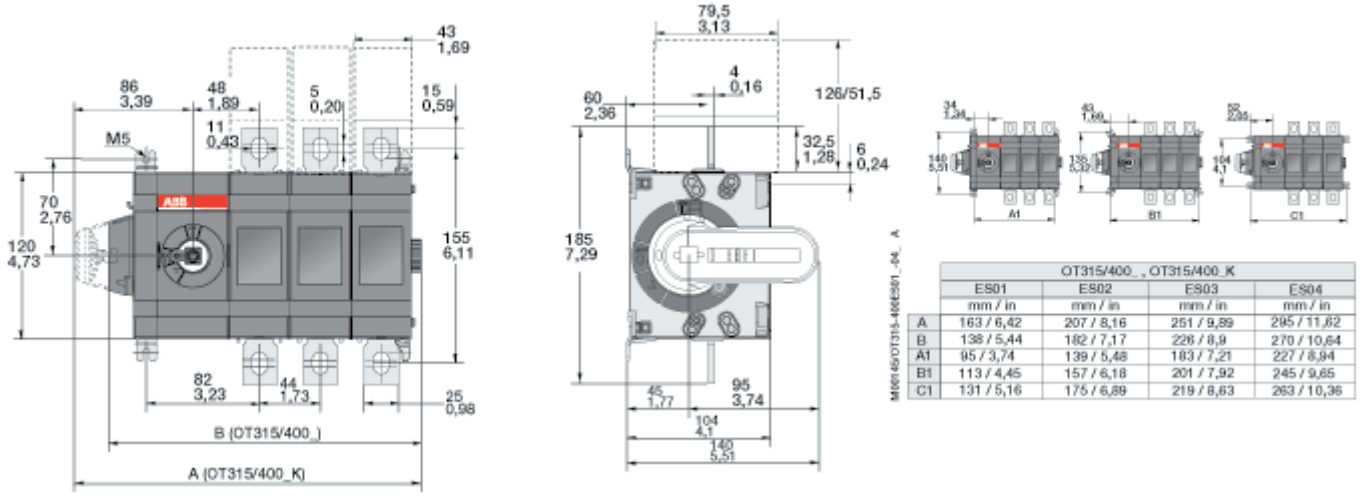



## OT 200ES_ and OT 250ES_



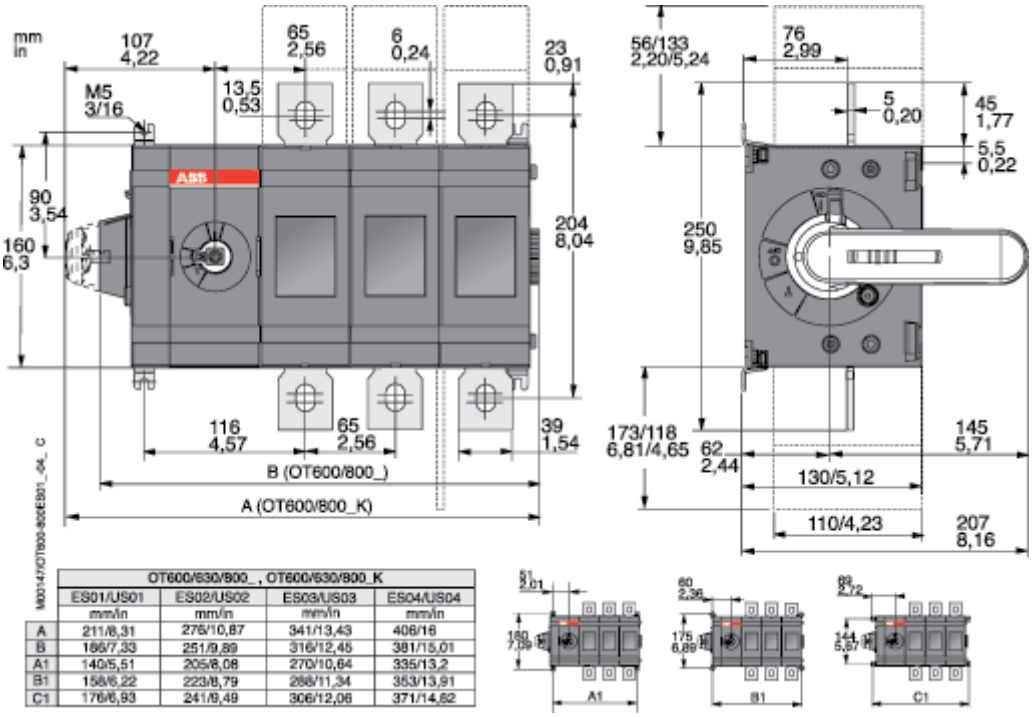

| | OT200/250_, OT200/250_K | | | |
|---|---|---|---|---|
| | ES01 | ES02 | ES03 | ES04 |
| | mm / in | mm / in | mm / in | mm / in |
| A | 128,5 / 5,06 | 163,5 / 6,44 | 198,5 / 7,82 | 233,5 / 9,2 |
| B | 111,5 / 4,39 | 146,5 / 5,77 | 181,5 / 7,15 | 216,5 / 8,53 |
| A1 | 71,5 / 2,81 | 106,5 / 4,2 | 141,5 / 5,57 | 176,5 / 6,95 |
| B1 | 86,5 / 3,41 | 121,5 / 4,79 | 156,5 / 6,16 | 191,5 / 7,54 |
| C1 | 101,5 / 4 | 136,5 / 5,38 | 171,5 / 6,75 | 206,5 / 8,14 |

## OT 315ES_ and OT 400ES_




| | OT315/400_, OT315/400_K | | | |
|---|---|---|---|---|
| | ES01 | ES02 | ES03 | ES04 |
| | mm / in | mm / in | mm / in | mm / in |
| A | 163 / 6,42 | 207 / 8,16 | 251 / 9,89 | 295 / 11,62 |
| B | 138 / 5,44 | 182 / 7,17 | 226 / 8,9 | 270 / 10,64 |
| A1 | 95 / 3,74 | 139 / 5,48 | 183 / 7,21 | 227 / 8,94 |
| B1 | 113 / 4,45 | 157 / 6,18 | 201 / 7,92 | 245 / 9,65 |
| C1 | 131 / 5,16 | 175 / 6,89 | 219 / 8,63 | 263 / 10,36 |

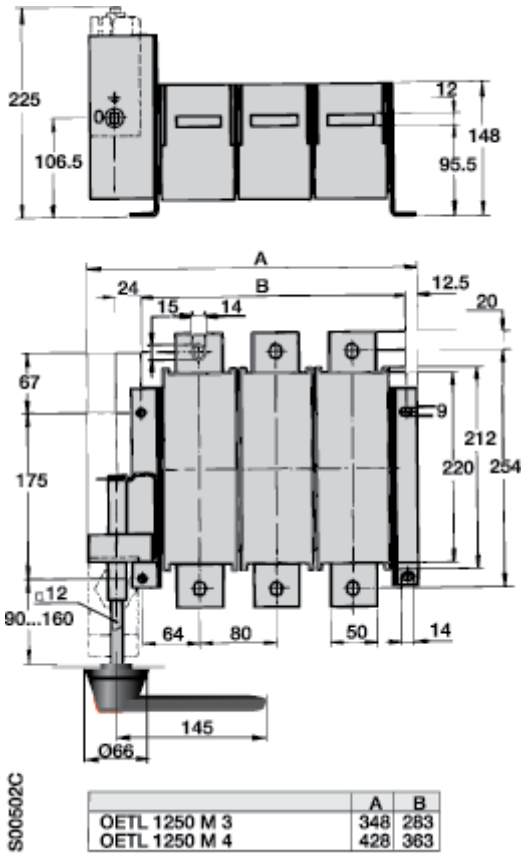
## OT 630ES_ and OT 800ES_




| | OT600/630/800_ , OT600/630/800_K | | | |
|---|---|---|---|---|
| | ES01/US01 | ES02/US02 | ES03/US03 | ES04/US04 |
| | mm/in | mm/in | mm/in | mm/in |
| A | 211/8,31 | 276/10,87 | 341/13,43 | 406/16 |
| B | 186/7,33 | 251/9,89 | 316/12,45 | 381/15,01 |
| A1 | 140/5,51 | 205/8,08 | 270/10,64 | 335/13,2 |
| B1 | 158/6,22 | 223/8,79 | 288/11,34 | 353/13,91 |
| C1 | 176/6,93 | 241/9,49 | 306/12,06 | 371/14,62 |

## OETL 1250M_

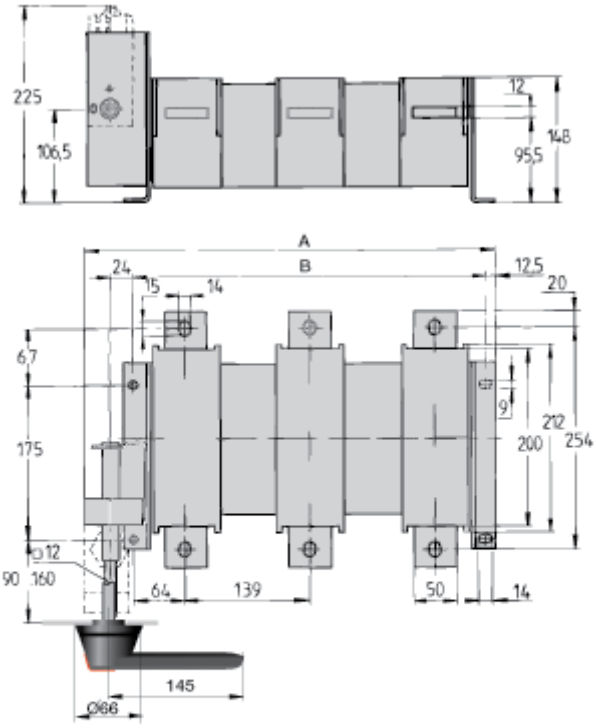
OETL 1250 M3




S00502C

| | A | B |
|---|---|---|
| OETL 1250 M 3 | 348 | 283 |
| OETL 1250 M 4 | 428 | 363 |

OETL 1250 M140_

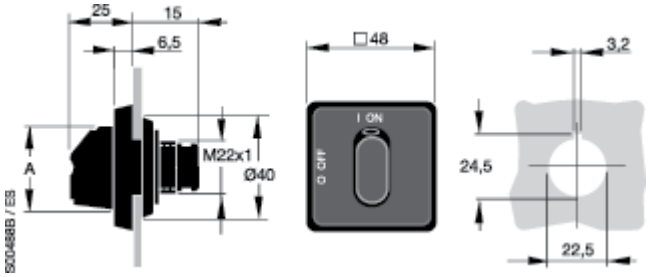



S00104C

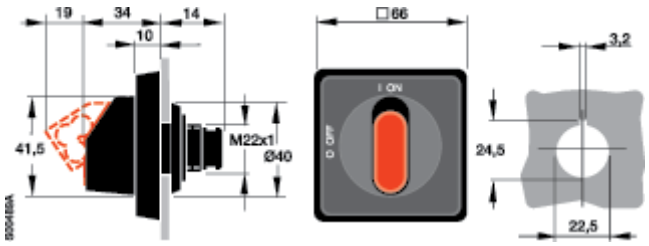
| | A | B |
|---|---|---|
| OETL 1250 M 140 | 466 | 401 |
| OETL 1250 M4 140 | 605 | 540 |

## Handles for base and DIN-rail mounted switches

OH_S1A_
OH_S3A_



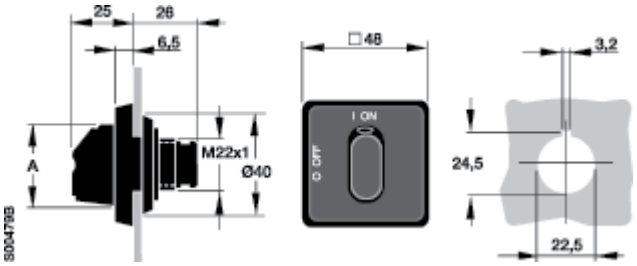

OH_S2A_



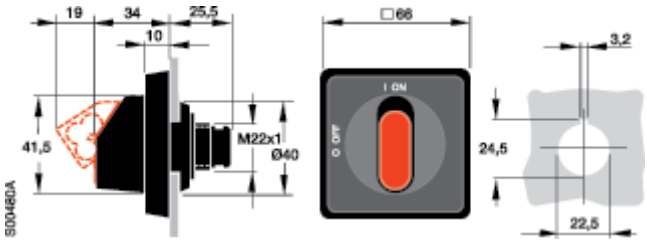

| | A |
|---|---|
| OH_S1A_ | 31,5 |
| OH_S3A_ | 37,5 |

## Handles for door mounted switches (snap-on mounting)

OH_S1P_
OH_S3P_



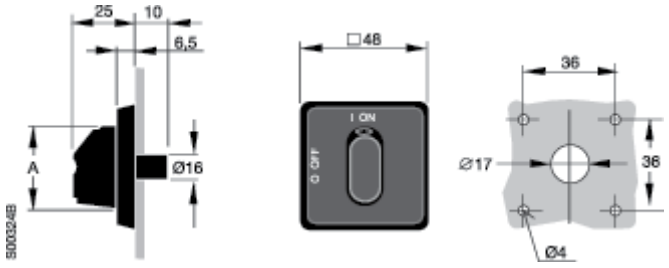

OH_S2P_



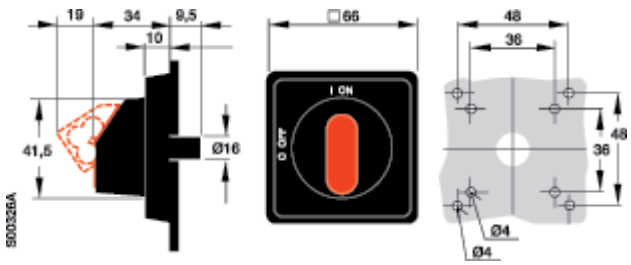

| | A |
|---|---|
| OH_S1P_ | 31,5 |
| OH_S3P_ | 37,5 |

## Handles for door mounted switches (screw-mounting)

OH_S1R_
OH_S3R_

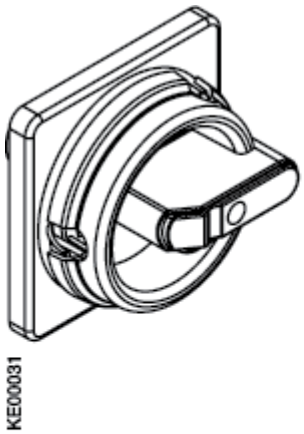


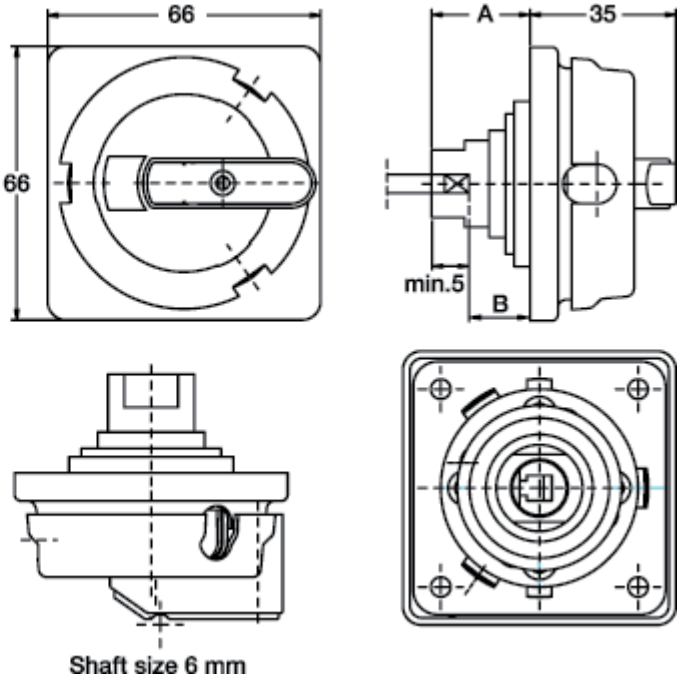

OH_S2R_




| | A |
|---|---|
| OH_S1R_ | 31,5 |
| OH_S3R_ | 37,5 |

## Round padlockable handle OZ331P_ and OZ371P_

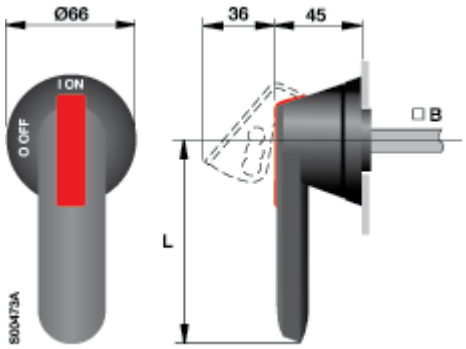


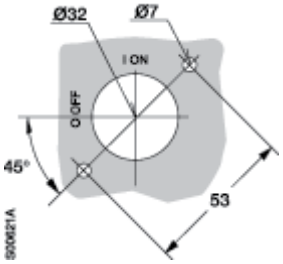

| | OZ331P_ | OZ371_ |
|---|---|---|
| **A** | 24 | 21 |
| **B** | 3-10 | 4-5 |

## Plastic handles

OH_

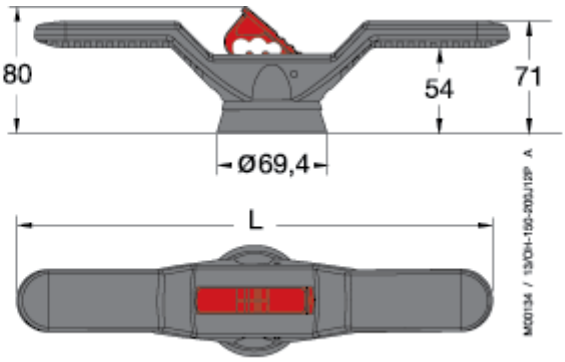


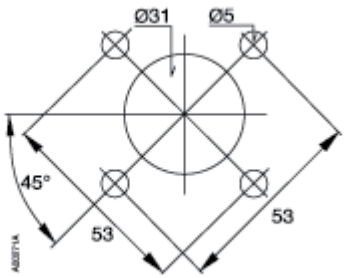

Door drilling for OH_ -handles:




| Handle type | Handle length (mm) L | Shaft (mm) B |
|---|---|---|
| OH_45J6 | 45 | 6 |
| OH_65J6 | 65 | 6 |
| OH_80J6 | 80 | 6 |
| OH_95J12 | 95 | 12 |
| OH_125J12 | 125 | 12 |
| OH_145J12 | 145 | 12 |
| OH_175J12 | 175 | 12 |
| OH_275J12 | 275 | 12 |

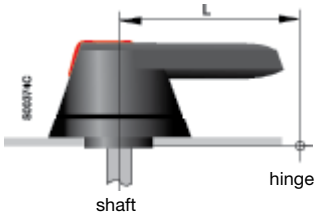
| Handle type | L |
|---|---|
| OHB150J12P | 300 |
| OHB200J12P | 400 |
| OHM150L12P | 300 |
| OHM200L12P | 400 |



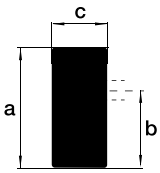
# Handles, legend plate
# Dimension drawings

## Minimum distance L, between the hinge and the rotating shaft




| Switch size | Length L [mm] | Handle type |
|---|---|---|
| OT16...125 | 75 | OH_1, OH_2, OH_3 |
| OT160...250_P | 60 | OH_65J_ |
| OT315...400_P | 95 | OH_95J_ |
| OT630...800_P | 150 | OH_125J_ |
| OETL3150 | 220<br>275 | YASDA 7, 8<br>OH_275J12 |

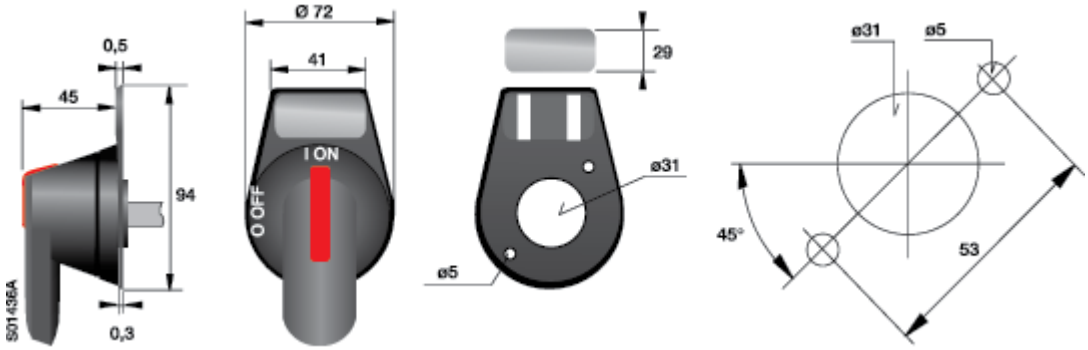
## Handle knobs




| | a | b | c |
|---|---|---|---|
| **OHBS 1, OHRS 1** | 31 | 16 | 14 |
| **OHBS 2, OHRS 2** | 40 | 25 | 13 |
| **OHBS 3, OHRS 3** | 39 | 23 | 18 |
| **OHBS 9, OHRS 9** | 72 | 55 | 16 |
| **OHB 13** | 72 | 55 | 18 |
| **YAST 1** | 72 | 55 | 15.5 |

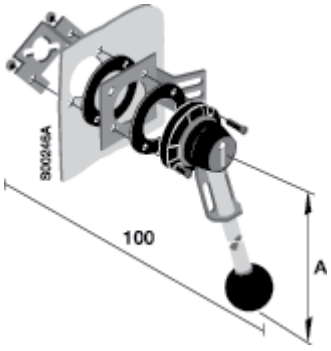
S01370A

## Legend plate for pistol handles, OPB3, OPY3 and OPX3

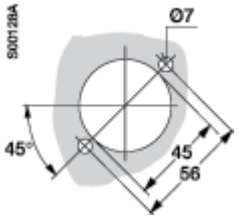



## Metallic handles

YASDA 6, 35 (A = 320 mm)
YASDA 7, 8, 21 (A = 220 mm)
YASDA 24 (A = 145 mm)

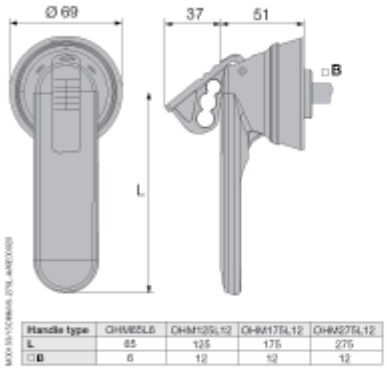



Door drilling for YASDA_ :



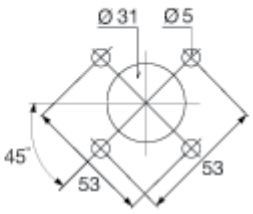

## Stainless steel handles

OHM_



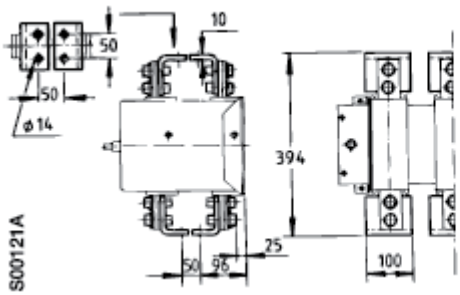

| Handle type | OHM65L6 | OHM125L12 | OHM175L12 | OHM275L12 |
|---|---|---|---|---|
| L | 65 | 125 | 175 | 275 |
| □B | 6 | 12 | 12 | 12 |

Door drilling for OHM_



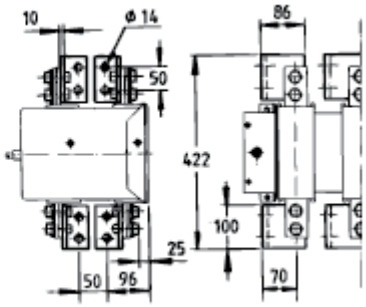
## Connection busbars for OETL 3150

OETLZX 114, 114/1



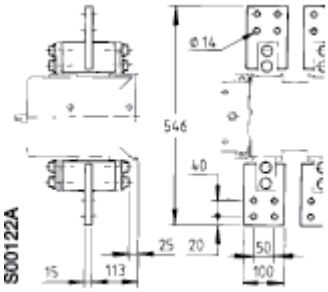

Alternative 1
- vertical/back mounting

OETLZX 114, 114/1



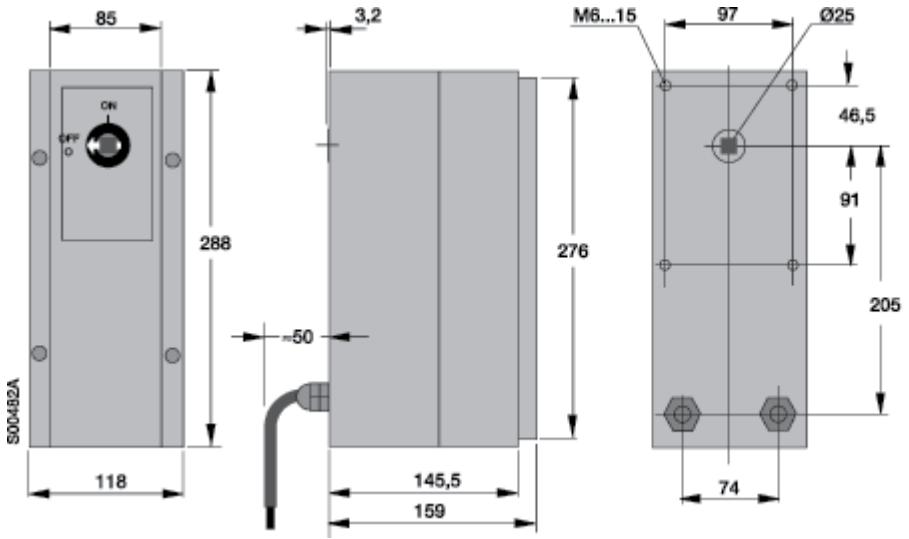

Alternative 2
- edgewise mounting

OETLZX 115, 115/1

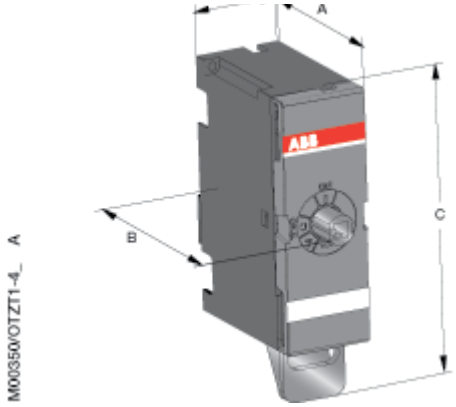



Alternative 3
- vertical mounting

## Motor operator OEMO



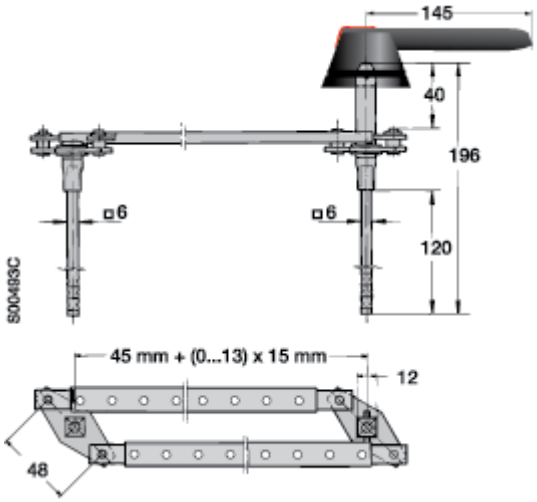

## Electrical and mechanical interlock OTZT_



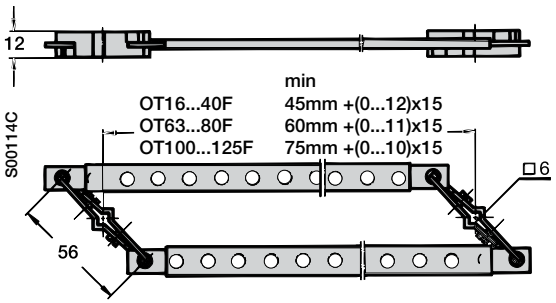

| TYPE | A (mm) | B (mm) | C (mm) | D (mm) |
|---|---|---|---|---|
| OTZT1_ | 69 | 82 | 122 | 35 |
| OTZT2_ | 81 | 102 | 152 | 52 |
| OTZT3_ | 86 | 110 | 201 | 65 |
| OTZT4_ | 88 | 110 | 258 | 84 |

## 6 and 8-pole mechanism

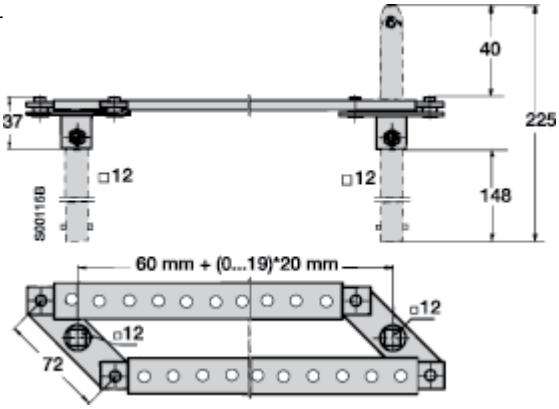
OESAZW 2




OTZW 8

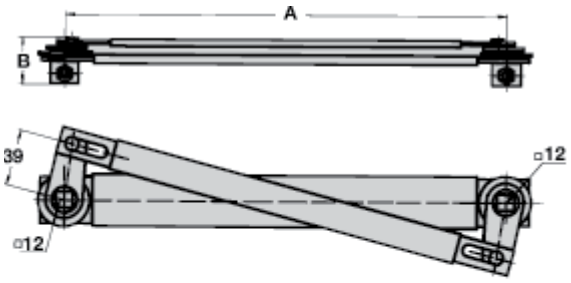



OETL




## Mechanical interlock mechanism

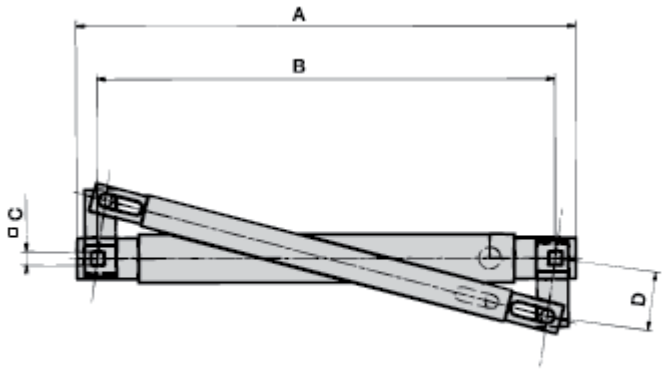
OETLZW 3, 14, 15




S00120A

| | A | B |
|---|---|---|
| OETLZW 3 | 300 | 31 |
| OETLZW 14 | 250 | 31 |
| OETLZW 15 | 500 | 36 |

OTZW 10, 24

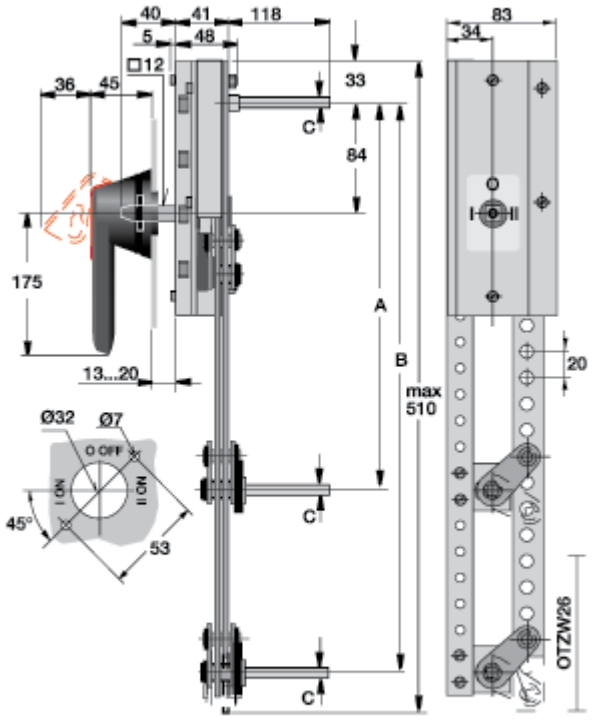



S00119A

| Type | A | B | C | D |
|---|---|---|---|---|
| OTZW10 | 206 | 190 | 6 | 30 |
| OTZW24 | 114 | 100 | 5 | 15 |

## Change-over and by-pass mechanism

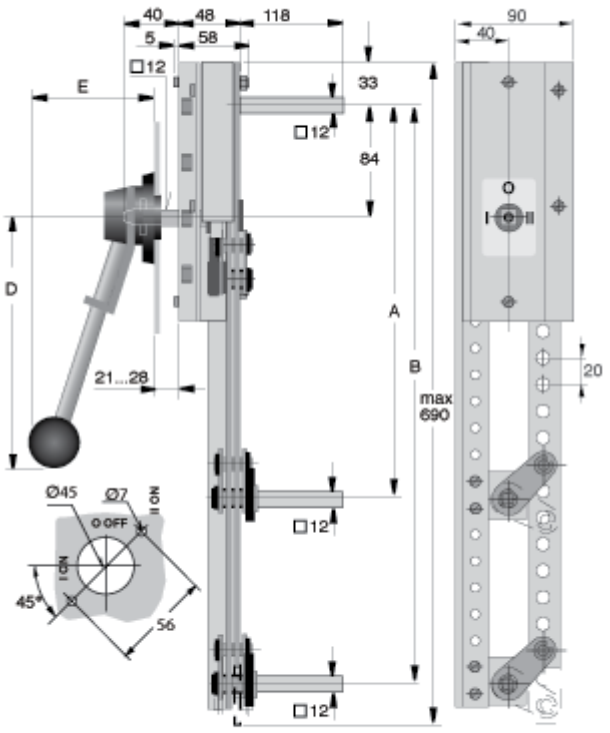
**OETLZW 11**
**OTZW 25**
**OTZW 26**




S00116A

| | A | B | C |
|---|---|---|---|
| OETLZW 11 | 210+(0...11)x20 mm | - | 12 |
| OTZW 25 | 210+(0...18)x20 mm | - | 6 |
| OTZW 26 | 210+(0...9)x20 mm | 210+(0...9)x20 mm | 6 |

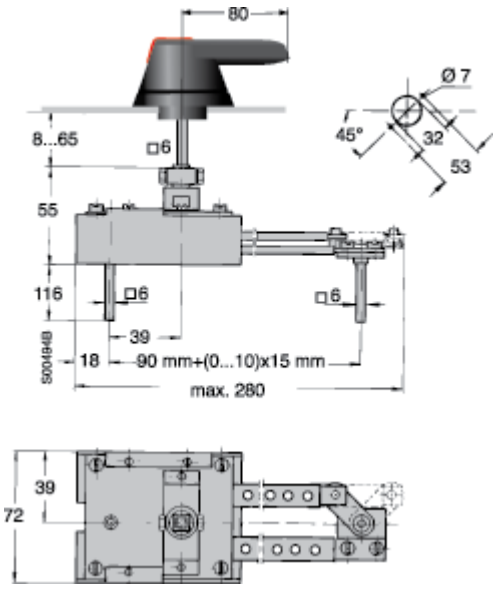
**OETLZW 12**
**OETLZW 13**



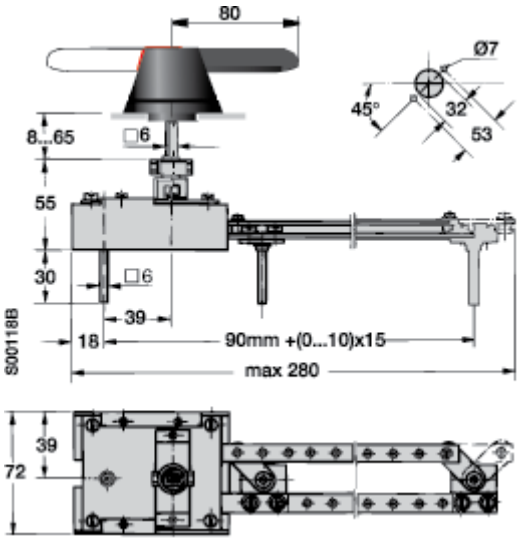

S00117C

| | A | B | D | E |
|---|---|---|---|---|
| OETLZW 12 | 210+(0...18)x20 mm | | 220 mm | 95 |
| OETLZW 13 | 210+(0...18)x20 mm | 250+(0...18)x20 mm | 320 mm | 138 |

OESAZW1

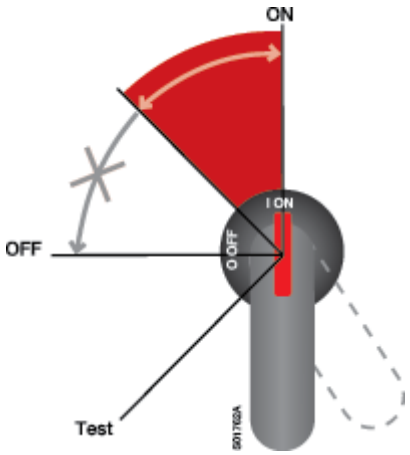



OTZW 17

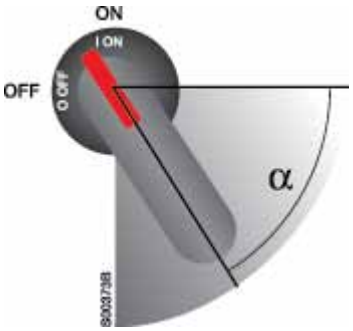


## Handle indications and functions

- The handle indicates the position of the contacts with complete reliability in all situations.
  If the contacts are welded together, the handle doesn´t reach the OFF-position but remains between ON and OFF, maintaining the door interlock and padlocking is not possible to do.
- When operating the switch to the Test-position with a test handle the test auxiliary contacts change position.
  The main contacts remain open.




## ON and OFF-functions of main and auxiliary contacts

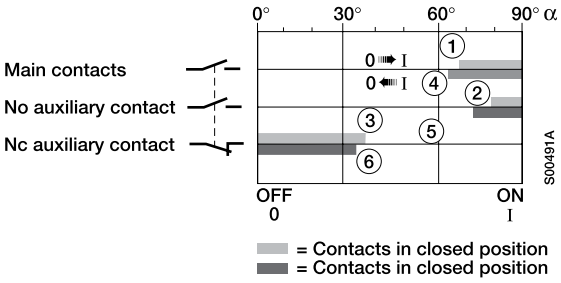



**Closing**

1. Main contacts close
2. NO auxiliary contacts close
3. NC auxiliary contacts open

**Opening**

4. Main contacts open
5. NO auxiliary contacts open
6. NC auxiliary contacts close

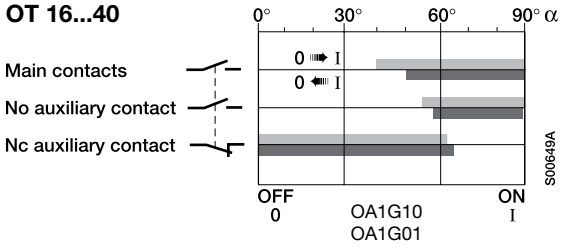


## ON and OFF-functions of main and auxiliary contacts

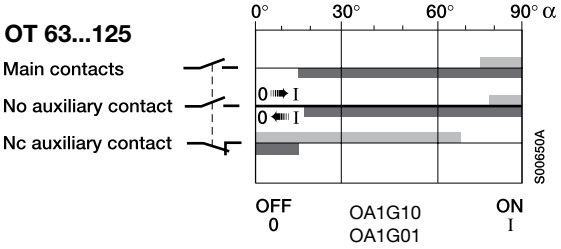
### OT 16...160

| Auxiliary contact | Contact configuration |
|---|---|
| OA1G10,<br>OA1G01 | 1NO<br>1NC |
| OBEA 10+, OEZNP 1 | 1NO |
| OBEA 01+, OEZNP 1 | 1NC |

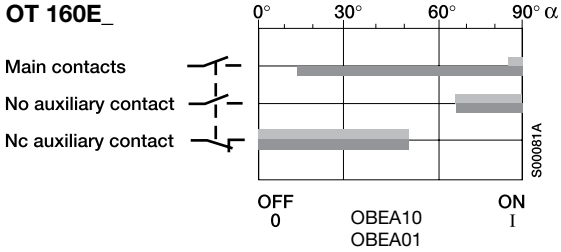
**OT 16...40**




**OT 63...125**



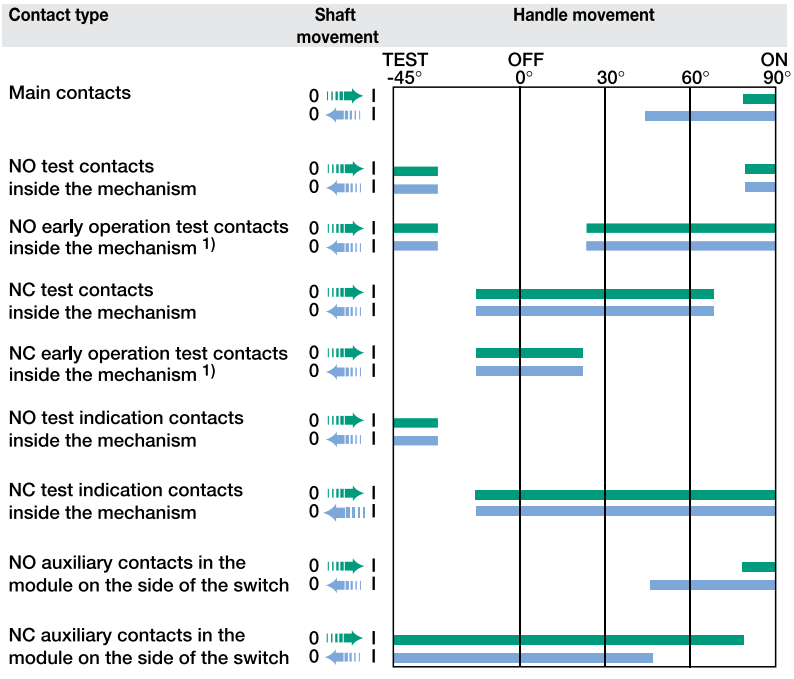

**OT 160E_**




## ON and OFF-functions of main and auxiliary contacts

### OT200...2500

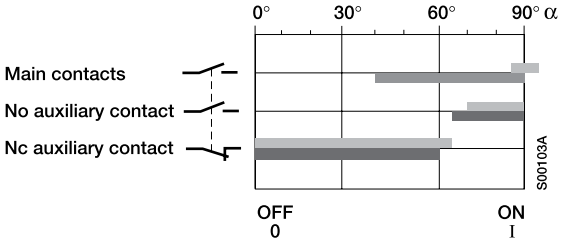
| Auxiliary contact | Contact configuration |
|---|---|
| OA1G10,<br>OA3G01 | 1NO<br>1NC |




1) OT1000...2500 only

## OETL 3150

| Auxiliary contact | Contact configuration |
|---|---|
| OZXK 1 | 1NO+1NC |
| OZXK 2 | 2NO+2NC |
| OZXK 3 | 4NO+4NC |
| OZXK 4 | 2NO |
| OZXK 5 | 4NO |
| OZXK 6 | 8NO |



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| OA1G01AU | 1SCA022436R7830 | 32 | Auxiliary contact block |
| OA1G10 | 1SCA022353R4970 | 32 | Auxiliary contact block |
| OA1G10AU | 1SCA022436R7910 | 32 | Auxiliary contact block |
| OA2G11 | 1SCA022379R8100 | 32 | Auxiliary contact block |
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| OHB125J12T | 1SCA022652R2220 | 26 | Pistol type handle |
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| OHBS3RH | 1SCA105237R1001 | 28 | Selector type handle |
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| OHG275J12 | 1SCA022381R3000 | 26 | Pistol type handle |
| OHG275J12E011 | 1SCA022381R3000 | 26 | Pistol type handle |
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| OHG65J6 | 1SCA022380R9740 | 26 | Pistol type handle |
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| OHRS12 | 1SCA108253R1001 | 24 | Handle knob |
| OHRS2 | 1SCA108598R1001 | 24 | Handle knob |
| OHRS2/1 | 1SCA108599R1001 | 24 | Handle knob |
| OHRS3 | 1SCA108667R1001 | 24 | Handle knob |
| OHRS3/1 | 1SCA108688R1001 | 24 | Handle knob |
| OHRS9 | 1SCA108666R1001 | 24 | Handle knob |
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# Notes

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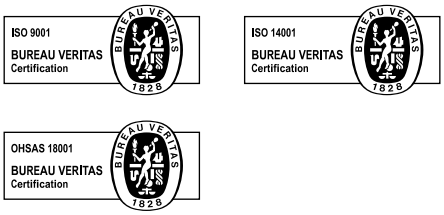


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