

## Low Voltage Products

### ABB Enclosed Load Break Switches/Isolators

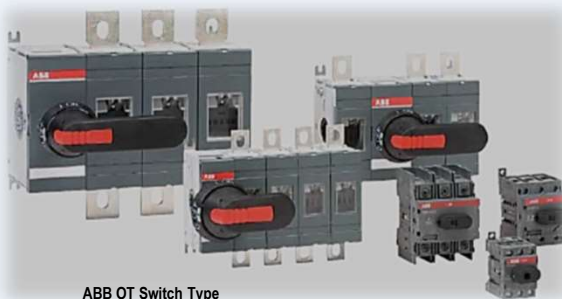


ABB OT Switch Type

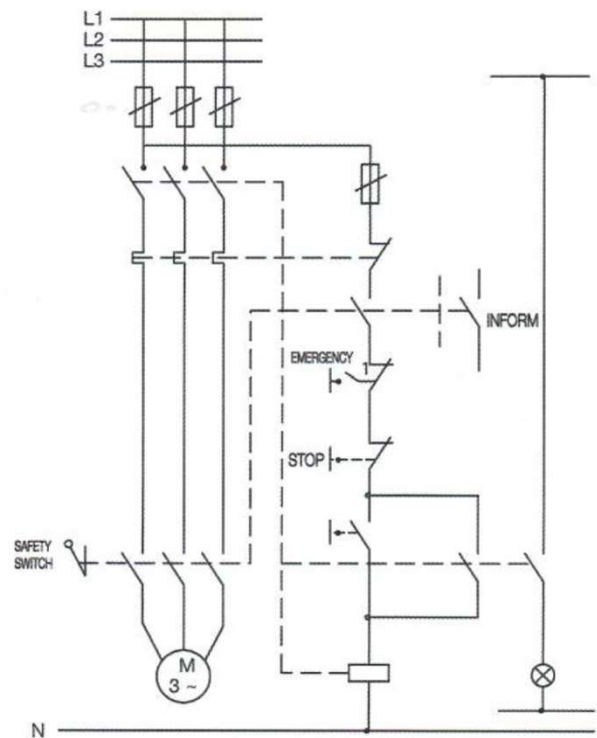


# Enclosed 3 Pole / 4 Pole Load Break Switch/Isolator

- Main ABB switches
- Local isolators
- Safety switches
- Emergency switches
- Motor control switches

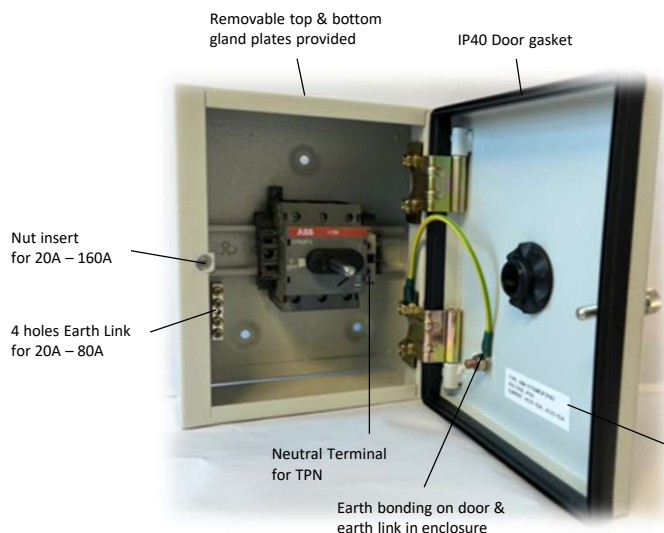
## Features

- Wide range  
Switch sizes from ABB-OT16A up to 4000A (details for above 400A, separate request)
  - 3-pole with neutral
  - 4-pole
  - Auxiliary contacts (N.O. and/or N.C.) as optional.
- Padlocking with 3 padlocks in OFF-position. Handles pad-lockable in both ON- and Off-positions as optional. Door coupling can be defeated through defeater hole by skilled personal.
- Reliable position indication.
- Door interlocked in ON-position.
- Protection degree IP40 & IP65
- Standard set of termination bolts provided (160A & above).
- Tested to IEC 60947-3.

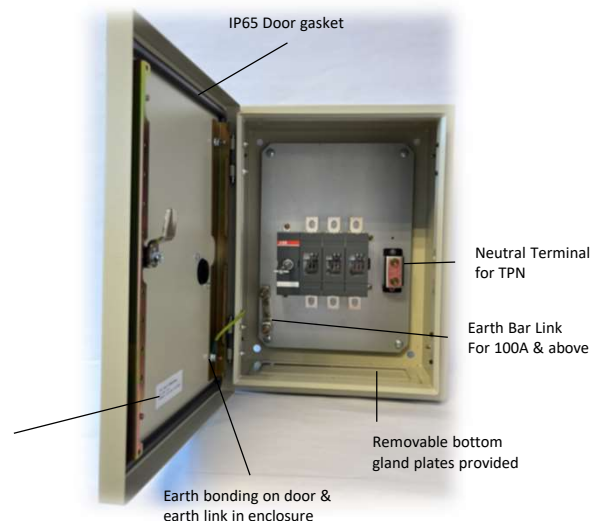


Typical diagram of a safety switch

## Indoor - IP40



## WP – IP65



### Technical data according to IEC 60947-3

| Switch type                                                                                                                                                                                                                                                  |                                           |                         | OT16F                     | OT25F                     | OT40F                     | OT63F                    | OT80F                    | OT100F                  | OT125F                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|-------------------------|-------------------------|
| Rated insulation voltage and rated operational voltage AC20/DC20                                                                                                                                                                                             | Pollution degree 3                        | 50 Hz<br>1 min.         | 750 V                     | 750 V                     | 750 V                     | 750 V                    | 750 V                    | 750 V                   | 750 V                   |
| Dielectric strength                                                                                                                                                                                                                                          |                                           |                         | 6 kV                      | 6 kV                      | 6 kV                      | 6 kV                     | 6 kV                     | 6 kV                    | 6 kV                    |
| Rated impulse withstand voltage                                                                                                                                                                                                                              |                                           |                         | 8 kV                      | 8 kV                      | 8 kV                      | 8 kV                     | 8 kV                     | 8 kV                    | 8                       |
| Rated thermal current and rated operational current AC20/DC20                                                                                                                                                                                                | Ambient 40 °C <sup>2)</sup>               | In open air             | 25 A                      | 32 A                      | 40 A                      | 63 A                     | 80 A                     | 115 A                   | 125 A                   |
|                                                                                                                                                                                                                                                              | Ambient 40 °C <sup>2)</sup>               | In enclosure            | 25 A                      | 32 A                      | 40 A                      | 63 A                     | 80 A                     | 115 A                   | 125 A                   |
|                                                                                                                                                                                                                                                              | Ambient 60 °C                             | In enclosure            | 20 A                      | 25 A                      | 32 A                      | 50 A                     | 63 A                     | 80 A                    | 100 A                   |
| ...with minimum conductor cross section                                                                                                                                                                                                                      |                                           | Cu                      | 4 mm <sup>2</sup>         | 6 mm <sup>2</sup>         | 10 mm <sup>2</sup>        | 16 mm <sup>2</sup>       | 25 mm <sup>2</sup>       | 35 mm <sup>2</sup>      | 50 mm <sup>2</sup>      |
| Rated operational current, AC-21A                                                                                                                                                                                                                            |                                           | up to 415 V             | 16 A                      | 25 A                      | 40 A                      | 63 A                     | 80 A                     | 100 A                   | 125 A                   |
|                                                                                                                                                                                                                                                              |                                           | 440...690 V             | 16 A                      | 25 A                      | 40 A                      | 63 A                     | 80 A                     | 100 A                   | 125 A                   |
| Rated operational current, AC-22A                                                                                                                                                                                                                            |                                           | up to 415 V             | 16 A                      | 25 A                      | 40 A                      | 63 A                     | 80 A                     | 100 A                   | 125 A                   |
|                                                                                                                                                                                                                                                              |                                           | 440...690 V             | 16 A                      | 25 A                      | 40 A                      | 63 A                     | 80 A                     | 100 A                   | 125 A                   |
| Rated operational current, AC-23A                                                                                                                                                                                                                            |                                           | up to 415 V             | 16 A                      | 20 A                      | 23 A                      | 63 A                     | 75 A                     | 80 A                    | 90 A                    |
|                                                                                                                                                                                                                                                              |                                           | 440 V                   | 16 A                      | 20 A                      | 23 A                      | 63 A                     | 65 A                     | 65 A                    | 78 A                    |
|                                                                                                                                                                                                                                                              |                                           | 500 V                   | 16 A                      | 20 A                      | 23 A                      | 45 A                     | 58 A                     | 60 A                    | 70 A                    |
|                                                                                                                                                                                                                                                              |                                           | 690 V                   | 10 A                      | 11 A                      | 12 A                      | 20 A                     | 20 A                     | 40 A                    | 50 A                    |
|                                                                                                                                                                                                                                                              |                                           |                         |                           |                           |                           |                          |                          |                         |                         |
| Rated operational current / poles in series, DC-21A                                                                                                                                                                                                          |                                           | 24...48 V <sup>1)</sup> | 16 A/1                    | 25 A/1                    | 32 A/1                    | 63 A/1                   | 80 A/1                   | 100 A/1                 | 125 A/1                 |
|                                                                                                                                                                                                                                                              |                                           | 110 V                   | 16 A/2                    | 25 A/2                    | 32 A/2                    | 63 A/2                   | 80 A/2                   | 100 A/2                 | 125 A/2                 |
|                                                                                                                                                                                                                                                              |                                           | 220 V                   | 16 A/3                    | 25 A/3                    | 32 A/3                    | 63 A/4                   | 80 A/4                   | 100 A/4                 | 125 A/4                 |
|                                                                                                                                                                                                                                                              |                                           | 440 V                   | 16 A/4                    | 16 A/4                    | 16 A/4                    | 16 A/4                   | 16 A/4                   | –                       | –                       |
|                                                                                                                                                                                                                                                              |                                           | 500 V                   | 16 A/4                    | 16 A/4                    | 16 A/4                    | 16 A/4                   | 16 A/4                   | –                       | –                       |
|                                                                                                                                                                                                                                                              |                                           | 750 V                   | 16 A/8                    | 25 A/8                    | 32 A/8                    | –                        | –                        | –                       | –                       |
| Rated operational current / poles in series, DC-22A                                                                                                                                                                                                          |                                           | 24...48 V <sup>1)</sup> | 16 A/1                    | 25 A/1                    | 32 A/1                    | 63 A/1                   | 80 A/1                   | 100 A/1                 | 125 A/1                 |
|                                                                                                                                                                                                                                                              |                                           | 110 V                   | 16 A/2                    | 25 A/2                    | 32 A/2                    | 63 A/2                   | 80 A/2                   | 100 A/2                 | 125 A/2                 |
|                                                                                                                                                                                                                                                              |                                           | 220 V                   | 16 A/3                    | 25 A/3                    | 32 A/4                    | 45 A/4                   | 45 A/4                   | 63 A/4                  | 80 A/4                  |
|                                                                                                                                                                                                                                                              |                                           | 440 V                   | 10 A/4                    | 10 A/4                    | 10 A/4                    | 10 A/4                   | 10 A/4                   | –                       | –                       |
|                                                                                                                                                                                                                                                              |                                           | 750 V                   | 16 A/8                    | 25 A/8                    | 25 A/8                    | –                        | –                        | –                       | –                       |
|                                                                                                                                                                                                                                                              |                                           |                         |                           |                           |                           |                          |                          |                         |                         |
| Rated operational current / poles in series, DC-23A                                                                                                                                                                                                          |                                           | 24...48 V <sup>1)</sup> | 16 A/1                    | 25 A/1                    | 32 A/1                    | 63 A/1                   | 80 A/1                   | 100 A/1                 | 125 A/1                 |
|                                                                                                                                                                                                                                                              |                                           | 110 V                   | 16 A/2                    | 25 A/2                    | 32 A/2                    | 63 A/2                   | 80 A/2                   | 100 A/2                 | 125 A/2                 |
|                                                                                                                                                                                                                                                              |                                           | 220 V                   | 16 A/4                    | 25 A/4                    | 32 A/4                    | 45 A/4                   | 45 A/4                   | 63 A/4                  | 63 A/4                  |
|                                                                                                                                                                                                                                                              |                                           | 440 V                   | 10 A/4                    | 10 A/4                    | 10 A/4                    | 10 A/4                   | 10 A/4                   | –                       | –                       |
|                                                                                                                                                                                                                                                              |                                           | 750 V                   | 16 A/8                    | 16 A/8                    | 16 A/8                    | –                        | –                        | –                       | –                       |
| Rated operational power, AC-23A<br>(These values are given for guidance and may vary acc. to the motor manufacturer)                                                                                                                                         |                                           | 220...240 V             | 3 kW                      | 4 kW                      | 5.5 kW                    | 11 kW                    | 22 kW                    | 22 kW                   | 22 kW                   |
|                                                                                                                                                                                                                                                              |                                           | 400...415 V             | 7.5 kW                    | 9 kW                      | 11 kW                     | 22 kW                    | 37 kW                    | 37 kW                   | 45 kW                   |
|                                                                                                                                                                                                                                                              |                                           | 440...500 V             | 7.5 kW                    | 9 kW                      | 11 kW                     | 22 kW                    | 37 kW                    | 37 kW                   | 45 kW                   |
|                                                                                                                                                                                                                                                              |                                           | 690 V                   | 7.5 kW                    | 9 kW                      | 11 kW                     | 15 kW                    | 18.5 kW                  | 37 kW                   | 45 kW                   |
| Rated breaking capacity, AC-23A                                                                                                                                                                                                                              |                                           | up to 415 V             | 128 A                     | 160 A                     | 184 A                     | 360 A                    | 640 A                    | 640 A                   | 720 A                   |
|                                                                                                                                                                                                                                                              |                                           | 440 V                   | 128 A                     | 160 A                     | 184 A                     | 360 A                    | 448 A                    | 520 A                   | 624 A                   |
|                                                                                                                                                                                                                                                              |                                           | 500 V                   | 128 A                     | 160 A                     | 184 A                     | 360 A                    | 464 A                    | 480 A                   | 560 A                   |
|                                                                                                                                                                                                                                                              |                                           | 690 V                   | 80 A                      | 88 A                      | 96 A                      | 160 A                    | 160 A                    | 320 A                   | 400 A                   |
|                                                                                                                                                                                                                                                              |                                           |                         |                           |                           |                           |                          |                          |                         |                         |
| Rated breaking capacity/<br>poles in series, DC-23A                                                                                                                                                                                                          |                                           | 24...48 V               | 64 A/1                    | 100 A/1                   | 128 A/1                   | 180 A/1                  | 252 A/1                  | 400 A/1                 | 500 A/1                 |
|                                                                                                                                                                                                                                                              |                                           | 110 V                   | 64 A/2                    | 100 A/2                   | 128 A/2                   | 180 A/2                  | 252 A/2                  | 400 A/2                 | 500 A/2                 |
|                                                                                                                                                                                                                                                              |                                           | 220 V                   | 64 A/3                    | 100 A/4                   | 128 A/4                   | 180 A/4                  | 180 A/4                  | 252 A/4                 | 252 A/4                 |
|                                                                                                                                                                                                                                                              |                                           | 440 V                   | 40 A/4                    | 40 A/4                    | 40 A/4                    | 40 A/4                   | 40 A/4                   | –                       | –                       |
|                                                                                                                                                                                                                                                              |                                           | 750 V                   | 64 A/8                    | 64 A/8                    | 64 A/8                    | –                        | –                        | –                       | –                       |
|                                                                                                                                                                                                                                                              |                                           |                         |                           |                           |                           |                          |                          |                         |                         |
| Rated conditional short-circuit current I <sub>k</sub> (r.m.s.) and corresponding max. Allowed cut-off current I <sub>c</sub> of fuse. The cut-off current I <sub>c</sub> refers to values listed by fuse manufacturers (single phase test acc. to IEC60269) | I <sub>k</sub> 50kA, ≤415V                | I <sub>c</sub>          | 6.5 kA                    | 6.5 kA                    | 6.5 kA                    | 13 kA                    | 13 kA                    | 16.5 kA                 | 16.5 kA                 |
|                                                                                                                                                                                                                                                              | Max. OFA_fuse size                        | gG/aM                   | 40 A/32 A                 | 40 A/32 A                 | 40 A/32 A                 | 100 A/80 A               | 100 A/80 A               | 125 A/125 A             | 125 A/125 A             |
|                                                                                                                                                                                                                                                              | I <sub>k</sub> 100kA, 500V                | I <sub>c</sub>          | –                         | –                         | –                         | 17 kA                    | 17 kA                    | –                       | –                       |
|                                                                                                                                                                                                                                                              | Max. OFA_fuse size                        | gG/aM                   | –                         | –                         | –                         | 100 A/80 A               | 100 A/80 A               | –                       | –                       |
|                                                                                                                                                                                                                                                              | I <sub>k</sub> 10kA, 690V                 | I <sub>c</sub>          | –                         | –                         | –                         | –                        | –                        | 8.2 kA                  | 8.2 kA                  |
|                                                                                                                                                                                                                                                              | Max. OFA_fuse size                        | gG/aM                   | –                         | –                         | –                         | –                        | –                        | 125 A/100 A             | 125 A/100 A             |
|                                                                                                                                                                                                                                                              | I <sub>k</sub> 50kA, 690V                 | I <sub>c</sub>          | 4 kA                      | 4 kA                      | 4 kA                      | 11 kA                    | 11 kA                    | 10 kA                   | 10 kA                   |
|                                                                                                                                                                                                                                                              | Max. OFA_fuse size                        | gG/aM                   | 25 A/16 A                 | 25 A/16 A                 | 25 A/16 A                 | 80 A/63 A                | 80 A/63 A                | 63 A/63 A               | 63 A/63 A               |
| Rated short-time withstand current                                                                                                                                                                                                                           | r.m.s. -value I <sub>cw</sub>             | 690 V, 1 s              | 0.5 kA                    | 0.5 kA                    | 0.5 kA                    | 1 kA                     | 1.5 kA                   | 2.5 kA                  | 2.5 kA                  |
| Rated short circuit making capacity                                                                                                                                                                                                                          | Peak value I <sub>cm</sub>                | 690 V/500 V             | 0.71 kA                   | 0.71 kA                   | 0.71 kA                   | 1.4 kA                   | 2.1 kA                   | 3.6 kA                  | 3.6 kA                  |
| Rated capacitor power (the capacitor ratings are limited by the fuse link.)                                                                                                                                                                                  |                                           | 400...415 V             | 6.5 kVAr                  | 10 kVAr                   | 15 kVAr                   | 25 kVAr                  | 30 kVAr                  | 40 kVAr                 | 50 kVAr                 |
| Power loss/pole                                                                                                                                                                                                                                              | At rated operational current              |                         | 0.3 W                     | 0.6 W                     | 1.6 W                     | 2.8 W                    | 4.5 W                    | 4.0 W                   | 6.3 W                   |
| Mechanical endurance                                                                                                                                                                                                                                         | Divide by two for operation cycles        |                         | 20 000 Oper.              | 20 000 Oper.              | 20 000 Oper.              | 20 000 Oper.             | 20 000 Oper.             | 20 000 Oper.            | 20 000 Oper.            |
| Weight without accessories                                                                                                                                                                                                                                   | 3-pole                                    |                         | 0.11 kg                   | 0.11 kg                   | 0.11 kg                   | 0.27 kg                  | 0.27 kg                  | 0.36 kg                 | 0.36 kg                 |
|                                                                                                                                                                                                                                                              | 4-pole                                    |                         | 0.15 kg                   | 0.15 kg                   | 0.15 kg                   | 0.35 kg                  | 0.35 kg                  | 0.50 kg                 | 0.50 kg                 |
| Cable size                                                                                                                                                                                                                                                   | Cu-wire size suitable for terminal clamps |                         | 0.75...10 mm <sup>2</sup> | 0.75...10 mm <sup>2</sup> | 0.75...10 mm <sup>2</sup> | 1.5...35 mm <sup>2</sup> | 1.5...35 mm <sup>2</sup> | 10...70 mm <sup>2</sup> | 10...70 mm <sup>2</sup> |
|                                                                                                                                                                                                                                                              |                                           |                         | 18-8 AWG                  | 18-8 AWG                  | 18-8 AWG                  | 14-4 AWG                 | 14-4 AWG                 | 8-00 AWG                | 8-00 AWG                |
| Terminal tightening torque                                                                                                                                                                                                                                   | Counter torque required                   |                         | 0.8 Nm                    | 0.8 Nm                    | 0.8 Nm                    | 2 Nm                     | 2 Nm                     | 6 Nm                    | 6 Nm                    |
| Operating torque                                                                                                                                                                                                                                             | 3-pole switch-disconnector                |                         | 1 Nm                      | 1 Nm                      | 1 Nm                      | 1.2 Nm                   | 1.2 Nm                   | 2 Nm                    | 2 Nm                    |

<sup>1)</sup> Below 48 V, two poles in parallel up to OT80 are recommended particularly in polluted atmosphere.

<sup>2)</sup> Acc. to IEC 60947-1, § 6.1.1.

# Manual switch-disconnectors OT160...4000, IEC

## Technical data



### Technical data according to IEC 60947-3

| Switch type                                                                                                                                                                                                                                           |                                                     |                 | OT160EV            | OT200E             | OT250E                | OT315E                | OT400E                | OT630E                | OT800E                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------|--------------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Rated insulation voltage and rated operational voltage AC-20, DC-20                                                                                                                                                                                   | Pollution degree 3                                  |                 | 1 000 V            | 1 000 V            | 1 000 V               | 1 000 V               | V 1 000               | 1 000 V               | 1 000 V               |
| Dielectric strength                                                                                                                                                                                                                                   |                                                     | 50 Hz 1 min.    | 10 kV              | 10 kV              | 10 kV                 | 10 kV                 | 10 kV                 | 10 kV                 | 10 kV                 |
| Rated impulse withstand voltage                                                                                                                                                                                                                       |                                                     |                 | 12 kV              | 12 kV              | 12 kV                 | 12 kV                 | 12 kV                 | 12 kV                 | 12 kV                 |
| Rated thermal current and rated operational current AC-20, DC-20 in ambient 40 °C <sup>4)</sup>                                                                                                                                                       | In open air                                         |                 | 200 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
|                                                                                                                                                                                                                                                       | In enclosure                                        |                 | 160 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
| ...with minimum cable cross section                                                                                                                                                                                                                   |                                                     | Cu              | 70 mm <sup>2</sup> | 95 mm <sup>2</sup> | 120 mm <sup>2</sup>   | 185 mm <sup>2</sup>   | 240 mm <sup>2</sup>   | 2x185 mm <sup>2</sup> | 2x240 mm <sup>2</sup> |
| Rated operational current, AC-21A                                                                                                                                                                                                                     |                                                     | ≤ 500 V         | 200 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
|                                                                                                                                                                                                                                                       |                                                     | 690 V           | 160 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
|                                                                                                                                                                                                                                                       |                                                     | 1000 V          | 160 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
| Rated operational current, AC-22A                                                                                                                                                                                                                     |                                                     | ≤ 500 V         | 200 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
|                                                                                                                                                                                                                                                       |                                                     | 690 V           | 160 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
|                                                                                                                                                                                                                                                       |                                                     | 1000 V          | 160 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
| Rated operational current, AC-23A                                                                                                                                                                                                                     |                                                     | ≤ 500 V         | 160 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
|                                                                                                                                                                                                                                                       |                                                     | 690 V           | 160 A              | 200 A              | 250 A                 | 315 A                 | 400 A                 | 630 A                 | 800 A                 |
|                                                                                                                                                                                                                                                       |                                                     | 1000 V          | 135 A              | 135 A              | 135 A                 | 200 A                 | 200 A                 | 400 A                 | 400 A                 |
| Rated operational current / poles in series, DC-21A <sup>3)</sup>                                                                                                                                                                                     |                                                     | 24...110 V      | 160 A/2            | 200 A/2            | 250 A/2               | 315 A/1 <sup>2)</sup> | 400 A/1 <sup>2)</sup> | 630 A/1               | 800 A/1               |
|                                                                                                                                                                                                                                                       |                                                     | 220 V           | 160 A/2            | 200 A/2            | 250 A/2               | 315 A/2 <sup>2)</sup> | 400 A/2 <sup>2)</sup> | 630 A/1               | 800 A/1               |
|                                                                                                                                                                                                                                                       |                                                     | 440 V           | 160 A/3            | 200 A/3            | 250 A/3               | 315 A/3               | 360 A/3               | 630 A/2               | 800 A/2               |
|                                                                                                                                                                                                                                                       |                                                     | 660 V           | 160 A/4            | 200 A/4            | 230 A/4 <sup>2)</sup> | 315 A/4               | 360 A/4               | 630 A/4 <sup>2)</sup> | 650 A/4 <sup>2)</sup> |
| Rated operational current / poles in series, DC-21B                                                                                                                                                                                                   |                                                     | 800 V           | 160 A/5            | 200 A/5            | 250 A/5               | 315 A/5               | 400 A/5               | 600 A/5               | 600 A/5               |
|                                                                                                                                                                                                                                                       |                                                     | 1000 V          | 160 A/6            | 200 A/6            | 250 A/6               | 315 A/6               | 400 A/6               | 600 A/6               | 600 A/6               |
| Rated operational power, AC-23 <sup>3)</sup>                                                                                                                                                                                                          |                                                     | 230 V           | 48 kW              | 60 kW              | 75 kW                 | 100 kW                | 132 kW                | 200 kW                | 250 kW                |
|                                                                                                                                                                                                                                                       |                                                     | 400 V           | 80 kW              | 110 kW             | 140 kW                | 160 kW                | 220 kW                | 355 kW                | 450 kW                |
|                                                                                                                                                                                                                                                       |                                                     | 415 V           | 88 kW              | 110 kW             | 145 kW                | 180 kW                | 230 kW                | 355 kW                | 450 kW                |
|                                                                                                                                                                                                                                                       |                                                     | 500 V           | 112 kW             | 132 kW             | 170 kW                | 220 kW                | 280 kW                | 400 kW                | 560 kW                |
|                                                                                                                                                                                                                                                       |                                                     | 690 V           | 144 kW             | 200 kW             | 250 kW                | 315 kW                | 400 kW                | 630 kW                | 800 kW                |
| Rated breaking capacity in category AC-23                                                                                                                                                                                                             |                                                     | ≤ 500 V         | 1 280 A            | 1 600 A            | 2 000 A               | 2 520 A               | 3 200 A               | 5 040 A               | 6 400 A               |
|                                                                                                                                                                                                                                                       |                                                     | 690 V           | 1 280 A            | 1 600 A            | 2 000 A               | 2 520 A               | 3 200 A               | 5 040 A               | 6 400 A               |
| Rated conditional short-circuit current I <sub>c</sub> (r.m.s.) and corresponding max. allowed cut-off current I <sub>c</sub> . The cut-off current I <sub>c</sub> refers to values listed by fuse manufacturers (single phase test acc. to IEC60269) | I <sub>c</sub> 100kA, 500V Max. OFA_fuse size       | I <sub>c</sub>  | 40.5 kA            | 40.5 kA            | 40.5 kA               | 61.5 kA               | 61.5 kA               | 90 kA                 | 90 kA                 |
|                                                                                                                                                                                                                                                       | I <sub>c</sub> 80kA, 690V Max. OFA_fuse size        | gG/aM           | 315 A/315 A        | 315 A/315 A        | 315 A/315 A           | 500 A/450 A           | 500 A/450 A           | 800 A/1 000 A         | 800 A/1 000 A         |
|                                                                                                                                                                                                                                                       |                                                     | I <sub>c</sub>  | 40.5 kA            | 40.5 kA            | 40.5 kA               | 59 kA                 | 59 kA                 | 83.5 kA               | 83.5 kA               |
|                                                                                                                                                                                                                                                       |                                                     | gG/aM           | 355 A/315 A        | 355 A/315 A        | 355 A/315 A           | 500 A/500 A           | 500 A/500 A           | 800 A/1 000 A         | 800 A/1 000 A         |
| Rated short-time withstand current                                                                                                                                                                                                                    | r.m.s. value I <sub>cw</sub>                        | ≤ 1000 V 0.15 s | 15 kA              | 15 kA              | 15 kA                 | 31 kA                 | 31 kA                 | 38 kA                 | 38 kA                 |
|                                                                                                                                                                                                                                                       |                                                     | ≤ 1000 V 0.25 s | 15 kA              | 15 kA              | 15 kA                 | 24 kA                 | 24 kA                 | 36 kA                 | 36 kA                 |
|                                                                                                                                                                                                                                                       |                                                     | ≤ 1000 V 1 s    | 8 kA               | 8 kA               | 8 kA                  | 15 kA                 | 15 kA                 | 20 kA                 | 20 kA                 |
| Rated short-circuit making capacity                                                                                                                                                                                                                   | Peak value I <sub>cm</sub>                          | ≤ 1000 V        | 30 kA              | 30 kA              | 30 kA                 | 65 kA                 | 65 kA                 | 80 kA                 | 80 kA                 |
| Rated capacitor power when no initial charge on the capacitor                                                                                                                                                                                         | The capacitor ratings are limited by the fuse links | 415 V           | 80 kVAr            | 100 kVAr           | 115 kVAr              | 145 kVAr              | 180 kVAr              | 250 kVAr              | 310 kVAr              |
|                                                                                                                                                                                                                                                       |                                                     | 500 V           | 96 kVAr            | 120 kVAr           | 135 kVAr              | 175 kVAr              | 215 kVAr              | 300 kVAr              | 375 kVAr              |
|                                                                                                                                                                                                                                                       |                                                     | 690 V           | 128 kVAr           | 160 kVAr           | 190 kVAr              | 250 kVAr              | 325 kVAr              | 450 kVAr              | 550 kVAr              |
| Power loss / pole                                                                                                                                                                                                                                     | With rated current                                  |                 | 3.2 W              | 4 W                | 6.5 W                 | 6.5 W                 | 10 W                  | 25 W                  | 40 W                  |
| Mechanical endurance                                                                                                                                                                                                                                  | Divide by two for oper. cycles                      |                 | 20 000 Oper.       | 20 000 Oper.       | 20 000 Oper.          | 16 000 Oper.          | 16 000 Oper.          | 10 000 Oper.          | 10 000 Oper.          |
| Weight without accessories                                                                                                                                                                                                                            | 3-pole switch                                       |                 | 1.3 kg             | 1.3 kg             | 1.3 kg                | 2.8 kg                | 2.8 kg                | 6.1 kg                | 6.1 kg                |
| Terminal bolt size                                                                                                                                                                                                                                    | Metric thread diameter x length                     |                 | M8x25 mm           | M8x25 mm           | M8x25 mm              | M10x30 mm             | M10x30 mm             | M12x40 mm             | M12x40 mm             |
| Terminal tightening torque                                                                                                                                                                                                                            | Counter torque required                             |                 | 15-22 Nm           | 15-22 Nm           | 15-22 Nm              | 30-44 Nm              | 30-44 Nm              | 50-75 Nm              | 50-75 Nm              |
| Operating torque                                                                                                                                                                                                                                      | 3-pole switch disconnecter                          |                 | 7 Nm               | 7 Nm               | 7 Nm                  | 16 Nm                 | 16 Nm                 | 27 Nm                 | 27 Nm                 |

<sup>1)</sup> Further ratings on request.

<sup>2)</sup> Category B.

<sup>3)</sup> These values are given for guidance and may vary acc. to the motor manufacturer.

<sup>4)</sup> Acc. to IEC 60947-1, § 6.1.1.

# Manual switch-disconnectors OT160...4000, IEC

## Technical data



### Technical data according to IEC 60947-3

| Switch type                                                                                                                                                                                                                                               |                                                                  |                | OT1000E               | OT1250E               | OT1600E               | OT2000E                  | OT2500E                  | OT3200E                 | OT4000E                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------|-----------------------|-----------------------|-----------------------|--------------------------|--------------------------|-------------------------|----------------------------------------------|
| Rated insulation voltage and rated operational voltage AC20/DC20                                                                                                                                                                                          | Pollution degree 3                                               |                | 1 000 V               | 1 000 V               | 1 000 V               | 1 000 V                  | 1 000 V                  | 1 000 V                 | 1 000 V                                      |
| Dielectric strength                                                                                                                                                                                                                                       |                                                                  | 50 Hz 1 min.   | 10 kV                 | 10 kV                 | 10 kV                 | 10 kV                    | 10 kV                    | 10 kV                   | 10 kV                                        |
| Rated impulse withstand voltage                                                                                                                                                                                                                           |                                                                  |                | 12 kV                 | 12 kV                 | 12 kV                 | 12 kV                    | 12 kV                    | 8 kV                    | 8 kV                                         |
| Rated thermal current and rated operational current AC20/DC20                                                                                                                                                                                             | Ambient 40 °C <sup>1)</sup>                                      | In open air    | 1 000 A               | 1 250 A               | 1 600 A               | 2 000 A                  | 2 500 A                  | 3 200 A                 | 3 800 A, 4000 A <sup>5)</sup>                |
|                                                                                                                                                                                                                                                           | Ambient 40 °C <sup>1)</sup>                                      | In enclosure   | 1 000 A               | 1 250 A               | 1 600 A               | –                        | –                        | –                       | –                                            |
| ...with minimum conductor cross section                                                                                                                                                                                                                   | Cu                                                               |                | 2x300 mm <sup>2</sup> | 2x400 mm <sup>2</sup> | 2x500 mm <sup>2</sup> | 3x500 mm <sup>2</sup>    | 4x500 mm <sup>2</sup>    | 4x1 000 mm <sup>2</sup> | 5x1 000 mm <sup>2</sup>                      |
| Rated operational current, AC-21A                                                                                                                                                                                                                         |                                                                  | up to 690 V    | 1 000 A               | 1 250 A               | 1 600 A               | 2 000 A <sup>2)</sup>    | 2 500 A <sup>2)</sup>    | 3 200 A <sup>2)</sup>   | 3 800 A                                      |
|                                                                                                                                                                                                                                                           |                                                                  | 1000 V         | 1 000 A               | 1 250 A               | 1 600 A               | –                        | –                        | –                       | –                                            |
| Rated operational current, AC-22A                                                                                                                                                                                                                         |                                                                  | up to 415 V    | 1 000 A               | 1 250 A               | 1 600 A               | 2 000 A <sup>2)</sup>    | 2 500 A <sup>2)</sup>    | 3 200 A <sup>2)</sup>   | 3 800 A <sup>2)</sup> , 4000 A <sup>5)</sup> |
|                                                                                                                                                                                                                                                           |                                                                  | 500 - 690 V    | 1 000 A               | 1 250 A               | 1 600 A               | 2 000 A <sup>2) 3)</sup> | 2 500 A <sup>2) 3)</sup> | –                       | –                                            |
| Rated operational current, AC-23A                                                                                                                                                                                                                         |                                                                  | up to 500 V    | 1 000 A               | 1 250 A               | 1 250 A               | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | 690 V          | 1 000 A               | 1 250 A               | 1 250 A               | –                        | –                        | –                       | –                                            |
| Rated operational power, AC-23A<br>(These values are given for guidance and may vary acc. to the motor manufacturer)                                                                                                                                      |                                                                  | 400...415 V    | 560 kW                | 710 kW                | 710 kW                | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | 440 V          | 630 kW                | 800 kW                | 800 kW                | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | 500 V          | 710 kW                | 900 kW                | 900 kW                | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | 690 V          | 1 000 kW              | 1 200 kW              | 1 200 kW              | –                        | –                        | –                       | –                                            |
| Rated breaking capacity, AC-23A                                                                                                                                                                                                                           |                                                                  | up to 500 V    | 10 000 A              | 10 000 A              | 10 000 A              | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | 690 V          | 10 000 A              | 10 000 A              | 10 000 A              | –                        | –                        | –                       | –                                            |
| Rated conditional short-circuit current I <sub>q</sub> (r.m.s.) and corresponding max. allowed cut-off current I <sub>c</sub> .<br>The cut-off current I <sub>c</sub> refers to values listed by fuse manufacturers (single phase test acc. to IEC60269). | I <sub>q</sub> 80kA, ≤415V<br>Max. OFA_fuse size                 | I <sub>c</sub> | 100 kA                | 100 kA                | 100 kA                | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | gG/aM          | 1 250 A/<br>1 250 A   | 1 250 A/<br>1 250 A   | 1 250 A/<br>1 250 A   | 1 250 A/<br>1 250 A      | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           | I <sub>q</sub> 100kA, 500V<br>Max. OFA_fuse size                 | I <sub>c</sub> | 106 kA                | 106 kA                | 106 kA                | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | gG/aM          | 1 250 A/<br>1 250 A   | 1 250 A/<br>1 250 A   | 1 250 A/<br>1 250 A   | 1 250 A/<br>1 250 A      | –                        | –                       | –                                            |
| Rated short-time withstand current                                                                                                                                                                                                                        | r.m.s. -value I <sub>cw</sub>                                    | 690 V, 0.25 s  | 50 kA                 | 50 kA                 | 50 kA                 | 80 kA                    | 80 kA                    | 80 kA                   | 80 kA, 100 kA <sup>5)</sup>                  |
|                                                                                                                                                                                                                                                           |                                                                  | 690 V, 1 s     | 50 kA                 | 50 kA                 | 50 kA                 | 55 kA                    | 55 kA                    | 65 kA                   | 80 kA                                        |
| Rated short circuit making capacity                                                                                                                                                                                                                       | Peak value I <sub>cm</sub>                                       | 690 V          | 110 kA <sup>4)</sup>  | 110 kA <sup>4)</sup>  | 110 kA <sup>4)</sup>  | 176 kA                   | 176 kA                   | 176 kA                  | 176 kA, 220 kA <sup>5)</sup>                 |
|                                                                                                                                                                                                                                                           | Max. distance from switch frame to nearest busbar/ cable support |                | 150 mm                | 150 mm                | 150 mm                | 150 mm                   | 150 mm                   | 150 mm                  | 150 mm                                       |
| Rated capacitor power when no initial charge on the capacitor                                                                                                                                                                                             | The capacitor ratings are limited by the fuse links              | 415 V          | 460 kVar              | 575 kVar              | 575 kVar              | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | 500 V          | 550 kVar              | 690 kVar              | 690 kVar              | –                        | –                        | –                       | –                                            |
|                                                                                                                                                                                                                                                           |                                                                  | 690 V          | 750 kVar              | 950 kVar              | 950 kVar              | –                        | –                        | –                       | –                                            |
| Power loss/pole                                                                                                                                                                                                                                           | At rated operational current                                     |                | 19 W                  | 29 W                  | 48 W                  | 55 W                     | 85 W                     | 95 W                    | 130 W                                        |
| Mechanical endurance                                                                                                                                                                                                                                      | Divide by two for operation cycles                               |                | 6 000 Oper.           | 6 000 Oper.           | 6 000 Oper.           | 6 000 Oper.              | 6 000 Oper.              | 5 000 Oper.             | 5 000 Oper.                                  |
| Weight without accessories                                                                                                                                                                                                                                | 3-pole                                                           |                | 14.7 kg               | 14.7 kg               | 16.8 kg               | 24.9 kg                  | 24.9 kg                  | 31.8 kg                 | 36.2 kg                                      |
|                                                                                                                                                                                                                                                           | 4-pole                                                           |                | 18.8 kg               | 18.8 kg               | 21.6 kg               | 32.4 kg                  | 32.4 kg                  | 41.5 kg                 | 47.5 kg                                      |
| Terminal bolt size                                                                                                                                                                                                                                        | Metric thread diameter x length                                  |                | M12x50 mm             | M12x50 mm             | M12x60 mm             | M12x60 mm                | M12x60 mm                | M12x60 mm               | M12x60 mm                                    |
| Terminal tightening torque                                                                                                                                                                                                                                | Counter torque required                                          |                | 50...75 Nm            | 50...75 Nm            | 50...75 Nm            | 50...75 Nm               | 50...75 Nm               | 50...75 Nm              | 50...75 Nm                                   |
| Operating torque                                                                                                                                                                                                                                          | 3-pole switch-disconnector                                       |                | 65 Nm                 | 65 Nm                 | 65 Nm                 | 65 Nm                    | 65 Nm                    | 65 Nm                   | 65 Nm                                        |

<sup>1)</sup> Acc. to IEC60947-1, § 6.1.1.

<sup>2)</sup> IEC 947-3, utilization category B, infrequent operation.

<sup>3)</sup> Phase barriers or terminal shrouds must be used on both sides of the switch at voltages ≥ 500 V.

<sup>4)</sup> The value is 92 kA for 4-pole switch-disconnectors.

<sup>5)</sup> OT4000E\_W8

## Ordering details

**Type: Indoor – IP40**

**Poles: DP (Double Pole)**

**Metalclad** Enclosed Load Break Switch / Isolator

| Model     | Poles | Rated Current (415V) |        | Cable Terminal<br>(mm) | Dimension (mm) |     |     | Weight<br>(kg) |
|-----------|-------|----------------------|--------|------------------------|----------------|-----|-----|----------------|
|           |       | AC-22A               | AC-23A |                        | H              | W   | D   |                |
| OT25ME2F  | DP    | 25A                  | 20A    | 0.75 - 10              | 200            | 180 | 105 | 2.5            |
| OT40ME2F  | DP    | 40A                  | 23A    | 0.75 - 10              | 200            | 180 | 105 | 2.5            |
| OT63ME2F  | DP    | 63A                  | 63A    | 1.5 - 35               | 200            | 180 | 105 | 2.5            |
| OT80ME2F  | DP    | 80A                  | 75A    | 1.5 - 35               | 200            | 180 | 105 | 2.5            |
| OT100ME2F | DP    | 100A                 | 80A    | 10 - 70                | 300            | 200 | 130 | 4.5            |
| OT125ME2F | DP    | 125A                 | 190A   | 10 - 70                | 300            | 200 | 130 | 4.5            |
|           |       |                      |        |                        |                |     |     |                |

**Type: Weatherproof – IP65**

**Poles: DP (Double Pole)**

**Metalclad** Enclosed Load Break Switch / Isolator

| Model     | Poles | Rated Current (415V) |        | Cable Terminal<br>(mm) | Dimension (mm) |     |     | Weight<br>(kg) |
|-----------|-------|----------------------|--------|------------------------|----------------|-----|-----|----------------|
|           |       | AC-22A               | AC-23A |                        | H              | W   | D   |                |
| OT25WP2F  | DP    | 25A                  | 20A    | 0.75 - 10              | 300            | 200 | 150 | 5.0            |
| OT40WP2F  | DP    | 40A                  | 23A    | 0.75 - 10              | 300            | 200 | 150 | 5.0            |
| OT63WP2F  | DP    | 63A                  | 63A    | 1.5 - 35               | 300            | 200 | 150 | 5.0            |
| OT80WP2F  | DP    | 80A                  | 75A    | 1.5 - 35               | 300            | 200 | 150 | 5.0            |
| OT100WP2F | DP    | 100A                 | 80A    | 10 - 70                | 300            | 200 | 150 | 6.5            |
| OT125WP2F | DP    | 125A                 | 90A    | 10 - 70                | 300            | 200 | 150 | 6.5            |
|           |       |                      |        |                        |                |     |     |                |

### NOTES:

**ABB Metalclad** Enclosed Isolators is come with 3 Pole switches which can be used as Double Pole by not terminating/blanking on the centre pole, as it is a standard product by ABB in comply with IEC 60947.



The pictures shown is an illustration and may vary on the actual product.

## Ordering details

**Type: Indoor – IP40**

**Poles: 3P+N / TPN & 4P**

**Metalclad Enclosed Load Break Switch / Isolator**

| Model                                  | Poles      | Rated Current (415V) |        | Cable Terminal<br>(mm) | Dimension (mm) |     |     | Weight<br>(kg) |
|----------------------------------------|------------|----------------------|--------|------------------------|----------------|-----|-----|----------------|
|                                        |            | AC-22A               | AC-23A |                        | H              | W   | D   |                |
| OT25ME3F                               | 3P+N / TPN | 25A                  | 20A    | 0.75 - 10              | 200            | 180 | 105 | 2.5            |
| OT25ME4F                               | 4P         | 25A                  | 20A    | 0.75 - 10              | 200            | 180 | 105 | 2.5            |
| OT40ME3F                               | 3P+N / TPN | 40A                  | 23A    | 0.75 - 10              | 200            | 180 | 105 | 2.5            |
| OT40ME4F                               | 4P         | 40A                  | 23A    | 0.75 - 10              | 200            | 180 | 105 | 2.5            |
| OT63ME3F                               | 3P+N / TPN | 63A                  | 63A    | 1.5 - 35               | 200            | 180 | 105 | 2.5            |
| OT63ME4F                               | 4P         | 63A                  | 63A    | 1.5 - 35               | 200            | 180 | 105 | 2.5            |
| OT80ME3F                               | 3P+N / TPN | 80A                  | 75A    | 1.5 - 35               | 200            | 180 | 105 | 2.5            |
| OT80ME4F                               | 4P         | 80A                  | 75A    | 1.5 - 35               | 200            | 180 | 105 | 2.5            |
| OT100ME3F                              | 3P+N / TPN | 100A                 | 80A    | 10 - 70                | 300            | 200 | 130 | 4.5            |
| OT100ME4F                              | 4P         | 100A                 | 80A    | 10 - 70                | 300            | 200 | 130 | 4.5            |
| OT125ME3F                              | 3P+N / TPN | 125A                 | 90A    | 10 - 70                | 300            | 200 | 130 | 4.5            |
| OT125ME4F                              | 4P         | 125A                 | 90A    | 10 - 70                | 300            | 200 | 130 | 4.5            |
| OT160ME3F                              | 3P+N / TPN | 160A                 | 160A   | M8 X 25mm T. bolts     | 400            | 260 | 165 | 6.5            |
| OT160ME4F                              | 4P         | 160A                 | 160A   | M8 X 25mm T. bolts     | 400            | 260 | 165 | 6.5            |
| OT200ME3F                              | 3P+N / TPN | 200A                 | 200A   | M8 X 25mm T. bolts     | 580            | 350 | 210 | 15.4           |
| OT200ME4F                              | 4P         | 200A                 | 200A   | M8 X 25mm T. bolts     | 580            | 350 | 210 | 15.4           |
| OT250ME3F                              | 3P+N / TPN | 250A                 | 250A   | M8 X 25mm T. bolts     | 580            | 350 | 210 | 15.4           |
| OT250ME4F                              | 4P         | 250A                 | 250A   | M8 X 25mm T. bolts     | 580            | 350 | 210 | 15.4           |
| OT315ME3F                              | 3P+N / TPN | 315A                 | 315A   | M10 X 30mm T. bolts    | 580            | 350 | 210 | 18.0           |
| OT315ME4F                              | 4P         | 315A                 | 315A   | M10 X 30mm T. bolts    | 580            | 350 | 210 | 18.0           |
| OT400ME3F                              | 3P+N / TPN | 400A                 | 400A   | M12 X 30mm T. bolts    | 580            | 350 | 210 | 19.0           |
| OT400ME4F                              | 4P         | 400A                 | 400A   | M12 X 30mm T. bolts    | 580            | 350 | 210 | 29.0           |
| OT630ME3F                              | 3P+N / TPN | 630A                 | 630A   | M12 X 40mm T. bolts    | 580            | 425 | 280 | 30.0           |
| OT630ME4F                              | 4P         | 630A                 | 630A   | M12 X 40mm T. bolts    | 580            | 425 | 280 | 30.0           |
| OT800ME3F                              | 3P+N / TPN | 800A                 | 800A   | M12 X 40mm T. bolts    | 580            | 425 | 280 | TBA            |
| OT800ME4F                              | 4P         | 800A                 | 800A   | M12 X 40mm T. bolts    | 580            | 425 | 280 | TBA            |
| 1000A & above are available on request |            |                      |        |                        |                |     |     |                |

Optional:

Customised rating with bigger enclosure are available on request

## Ordering details

**Type: Weatherproof – IP65**

**Poles: 3P+N / TPN & 4P**

**Metalclad** Enclosed Load Break Switch / Isolator

| Model                                  | Poles      | Rated Current (415V) |        | Cable Terminal<br>(mm) | Dimension (mm) |     |     | Weight<br>(kg) |
|----------------------------------------|------------|----------------------|--------|------------------------|----------------|-----|-----|----------------|
|                                        |            | AC-22A               | AC-23A |                        | H              | W   | D   |                |
| OT25WP3F                               | 3P+N / TPN | 25A                  | 20A    | 0.75 - 10              | 300            | 200 | 150 | 5.0            |
| OT25WP4F                               | 4P         | 25A                  | 20A    | 0.75 - 10              | 300            | 200 | 150 | 5.0            |
| OT40WP3F                               | 3P+N / TPN | 40A                  | 23A    | 0.75 - 10              | 300            | 200 | 150 | 5.0            |
| OT40WP4F                               | 4P         | 40A                  | 23A    | 0.75 - 10              | 300            | 200 | 150 | 5.0            |
| OT63WP3F                               | 3P+N / TPN | 63A                  | 63A    | 1.5 - 35               | 300            | 200 | 150 | 5.0            |
| OT63WP4F                               | 4P         | 63A                  | 63A    | 1.5 - 35               | 300            | 200 | 150 | 5.0            |
| OT80WP3F                               | 3P+N / TPN | 80A                  | 75A    | 1.5 - 35               | 300            | 200 | 150 | 5.0            |
| OT80WP4F                               | 4P         | 80A                  | 75A    | 1.5 - 35               | 300            | 200 | 150 | 5.0            |
| OT100WP3F                              | 3P+N / TPN | 100A                 | 80A    | 10 - 70                | 300            | 200 | 150 | 6.5            |
| OT100WP4F                              | 4P         | 100A                 | 80A    | 10 - 70                | 300            | 200 | 150 | 6.5            |
| OT125WP3F                              | 3P+N / TPN | 125A                 | 90A    | 10 - 70                | 300            | 200 | 150 | 6.5            |
| OT125WP4F                              | 4P         | 125A                 | 90A    | 10 - 70                | 300            | 200 | 150 | 6.5            |
| OT160WP3F                              | 3P+N / TPN | 160A                 | 160A   | M8 X 25mm T. bolts     | 400            | 300 | 200 | 9.5            |
| OT160WP4F                              | 4P         | 160A                 | 160A   | M8 X 25mm T. bolts     | 400            | 300 | 200 | 9.5            |
| OT200WP3F                              | 3P+N / TPN | 200A                 | 200A   | M8 X 25mm T. bolts     | 600            | 400 | 200 | 20.0           |
| OT200WP4F                              | 4P         | 200A                 | 200A   | M8 X 25mm T. bolts     | 600            | 400 | 200 | 20.0           |
| OT250WP3F                              | 3P+N / TPN | 250A                 | 250A   | M8 X 25mm T. bolts     | 600            | 400 | 200 | 20.0           |
| OT250WP4F                              | 4P         | 250A                 | 250A   | M8 X 25mm T. bolts     | 600            | 400 | 200 | 20.0           |
| OT315WP3F                              | 3P+N / TPN | 315A                 | 315A   | M10 X 30mm T. bolts    | 600            | 400 | 200 | 25.0           |
| OT315WP4F                              | 4P         | 315A                 | 315A   | M10 X 30mm T. bolts    | 600            | 400 | 200 | 25.0           |
| OT400WP3F                              | 3P+N / TPN | 400A                 | 400A   | M12 X 30mm T. bolts    | 700            | 500 | 200 | 27.0           |
| OT400WP4F                              | 4P         | 400A                 | 400A   | M12 X 30mm T. bolts    | 700            | 500 | 200 | 27.0           |
| OT630WP3F                              | 3P+N / TPN | 630A                 | 630A   | M12 X 40mm T. bolts    | 700            | 500 | 250 | 28.0           |
| OT630WP4F                              | 4P         | 630A                 | 630A   | M12 X 40mm T. bolts    | 700            | 500 | 250 | 28.0           |
| OT800WP3F                              | 3P+N / TPN | 800A                 | 800A   | M12 X 40mm T. bolts    | 800            | 600 | 250 | 30.0           |
| OT800WP4F                              | 4P         | 800A                 | 800A   | M12 X 40mm T. bolts    | 800            | 600 | 250 | 30.0           |
| 1000A & above are available on request |            |                      |        |                        |                |     |     |                |

Optional:

Customised rating with bigger enclosure are available on request

## Ordering details

**Type: Weatherproof – IP65**

**Poles: 3P+N / TPN & 4P**

Customised **ABS/Polycarbonate** Enclosed Load Break Switch / Isolator

| Model                                 | Poles      | Rated Current (415V) |        | Cable Terminal<br>(mm) | Dimension (mm) |     |     | Weight<br>(kg) |
|---------------------------------------|------------|----------------------|--------|------------------------|----------------|-----|-----|----------------|
|                                       |            | AC-22A               | AC-23A |                        | H              | W   | D   |                |
| OTP25B3PF                             | 3P+N / TPN | 25A                  | 20A    | 0.75 - 10              | 200            | 150 | 100 | 1.1            |
| OTP25B4PF                             | 4P         | 25A                  | 20A    | 0.75 - 10              | 200            | 150 | 100 | 1.1            |
| OTP40B3PF                             | 3P+N / TPN | 40A                  | 23A    | 0.75 - 10              | 200            | 150 | 100 | 1.1            |
| OTP40B4PF                             | 4P         | 40A                  | 23A    | 0.75 - 10              | 200            | 150 | 100 | 1.1            |
| OTP63B3PF                             | 3P+N / TPN | 63A                  | 63A    | 1.5 - 35               | 200            | 150 | 100 | 1.3            |
| OTP63B4PF                             | 4P         | 63A                  | 63A    | 1.5 - 35               | 200            | 150 | 100 | 1.3            |
| OTP80B3PF                             | 3P+N / TPN | 80A                  | 75A    | 1.5 - 35               | 280            | 190 | 130 | 2.1            |
| OTP80B4PF                             | 4P         | 80A                  | 75A    | 1.5 - 35               | 280            | 190 | 130 | 2.1            |
| OTP100B3PF                            | 3P+N / TPN | 100A                 | 80A    | 10 - 70                | 280            | 280 | 130 | 3.0            |
| OTP100B4PF                            | 4P         | 100A                 | 80A    | 10 - 70                | 280            | 280 | 130 | 3.0            |
| 125A & above are available on request |            |                      |        |                        |                |     |     |                |

Optional:

Customised rating with bigger enclosure are available on request



## Ordering details

**Type: Weatherproof – IP65**

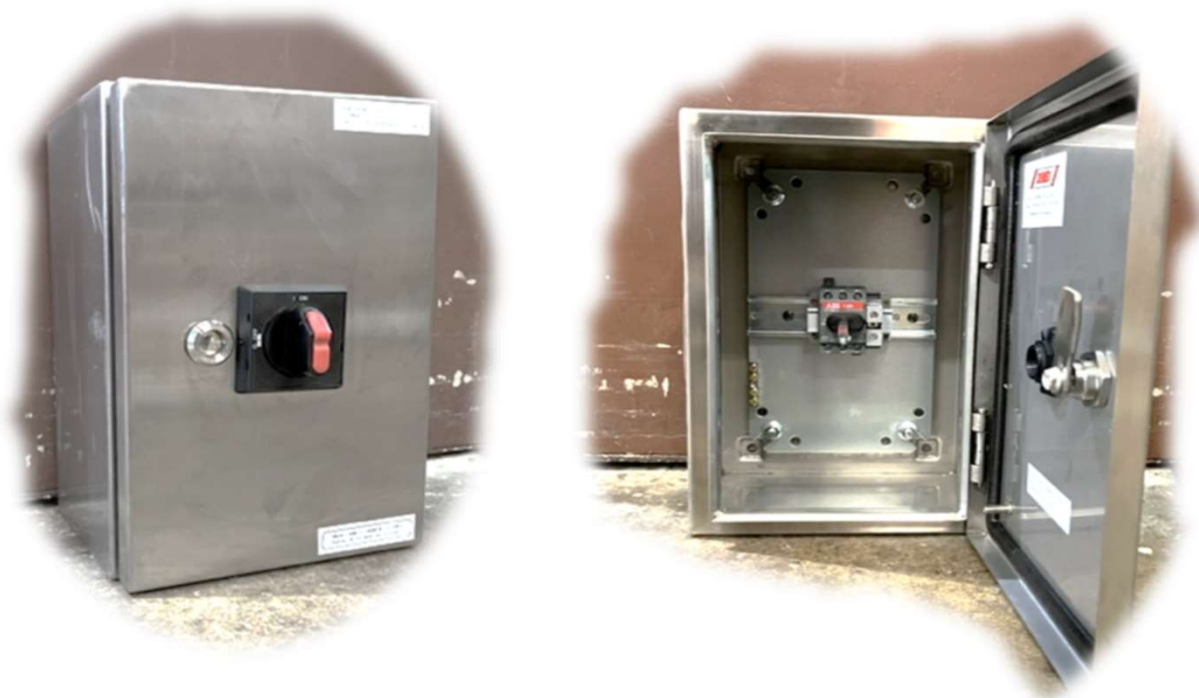
**Poles: 3P+N / TPN & 4P**

Customised **Stainless Steel (SS316 or SS304)** Enclosed Load Break Switch / Isolator

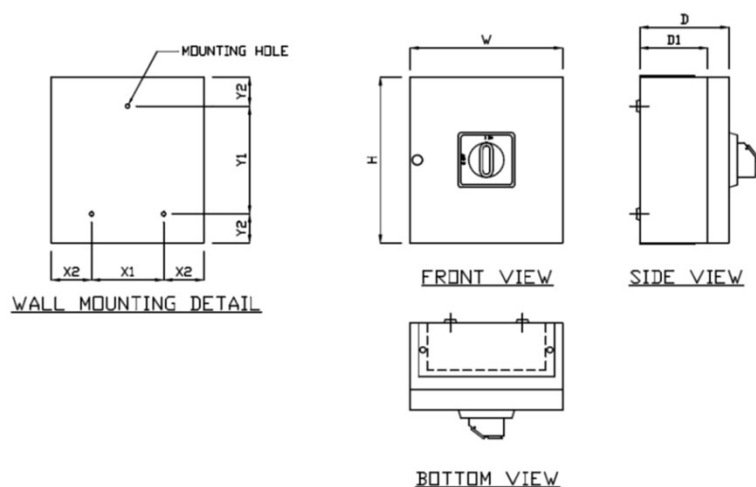
| Model                                 | Poles      | Rated Current (415V) |        | Cable Terminal<br>(mm) | Dimension (mm) |     |     | Weight<br>(kg) |
|---------------------------------------|------------|----------------------|--------|------------------------|----------------|-----|-----|----------------|
|                                       |            | AC-22A               | AC-23A |                        | H              | W   | D   |                |
| OT25WP3F/SS                           | 3P+N / TPN | 25A                  | 20A    | 0.75 - 10              | 300            | 200 | 150 | 6.0            |
| OT25WP4F/SS                           | 4P         | 25A                  | 20A    | 0.75 - 10              | 300            | 200 | 150 | 6.0            |
| OT40WP3F/SS                           | 3P+N / TPN | 40A                  | 23A    | 0.75 - 10              | 300            | 200 | 150 | 6.0            |
| OT40WP4F/SS                           | 4P         | 40A                  | 23A    | 0.75 - 10              | 300            | 200 | 150 | 6.0            |
| OT63WP3F/SS                           | 3P+N / TPN | 63A                  | 63A    | 1.5 - 35               | 300            | 200 | 150 | 6.0            |
| OT63WP4F/SS                           | 4P         | 63A                  | 63A    | 1.5 - 35               | 300            | 200 | 150 | 6.0            |
| OT80WP3F/SS                           | 3P+N / TPN | 80A                  | 75A    | 1.5 - 35               | 300            | 200 | 150 | 6.0            |
| OT80WP4F/SS                           | 4P         | 80A                  | 75A    | 1.5 - 35               | 300            | 200 | 150 | 6.0            |
| OT100WP3F/SS                          | 3P+N / TPN | 100A                 | 80A    | 10 - 70                | 300            | 200 | 150 | 7.5            |
| OT100WP4F/SS                          | 4P         | 100A                 | 80A    | 10 - 70                | 300            | 200 | 150 | 7.5            |
| 125A & above are available on request |            |                      |        |                        |                |     |     |                |

Optional:

Customised rating with bigger enclosure are available on request

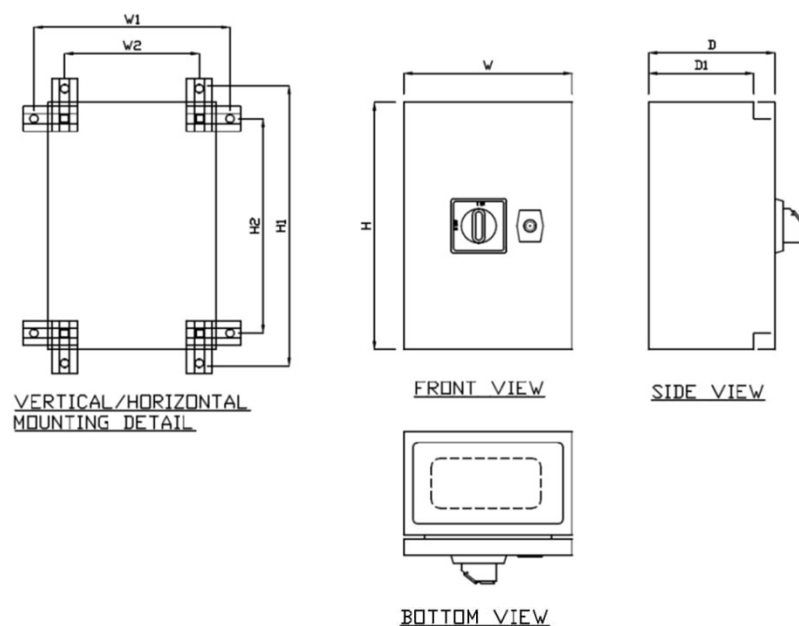


## Mounting details



Dimensions (mm) - IP40

| Model       | Enclosure Size |     |     |    | Opening Depth (Top & Bottom) |     | Mounting hole positions |      |     |    |
|-------------|----------------|-----|-----|----|------------------------------|-----|-------------------------|------|-----|----|
|             | H              | W   | D   | D1 | a                            | b   | X1                      | X2   | Y1  | Y2 |
| OT25 - 80   | 200            | 180 | 105 | 25 | 50                           | 100 | 85                      | 47.5 | 130 | 35 |
| OT100 - 125 | 300            | 200 | 130 | 25 | 60                           | 120 | 120                     | 40   | 230 | 35 |
| OT160       | 400            | 260 | 165 | 25 | 75                           | 180 | 180                     | 40   | 330 | 35 |
| OT200 - 400 | 580            | 350 | 210 | 30 | 130                          | 290 | -                       | -    | -   | -  |



Dimensions (mm) - IP65

| Model       | Enclosure Size |     |     |    | Opening Depth (Bottom) |     | Mounting hole positions |     |     |     |
|-------------|----------------|-----|-----|----|------------------------|-----|-------------------------|-----|-----|-----|
|             | H              | W   | D   | D1 | a                      | b   | W1                      | W2  | H1  | H2  |
| OT25 - 125  | 300            | 200 | 150 | 25 | 60                     | 130 | 240                     | 160 | 340 | 260 |
| OT160       | 400            | 300 | 200 | 25 | 105                    | 230 | 340                     | 260 | 440 | 360 |
| OT200 - 315 | 600            | 400 | 200 | 25 | 105                    | 330 | 440                     | 360 | 640 | 560 |
| OT400       | 700            | 500 | 200 | 25 | 105                    | 330 | 540                     | 460 | 740 | 660 |
| OT630       | 700            | 500 | 250 | 25 | 105                    | 330 | 540                     | 460 | 740 | 660 |

The data and illustrations are not binding.

We reserve the right to make changes in the course of technical development of the product.