

## SWITCH DISCONNECTOR 100A

Rated Thermal Current I<sub>th</sub> 100A

0172501

SWITCH DISCONNECTOR COMPLETE 100 A

- 3 pole switch body
- Front & rear mount
- Neutral & additional poles
- Handle & clutch drive options



### PRODUCT DESCRIPTION

Switch disconnecter range with patented design reversible terminals to allow front or rear mount. Can be used to safely switch and isolate up to 690V thanks to a wider contact air gap of 7mm.

All switch body options have 3 poles with reversible terminals.

Up to 4 neutral poles / additional poles can be snapped on to a switch body (2 each side).

Up to 2 N/C+N/O auxillary blocks / early break auxillary blocks can be snapped on to a switch body (1 each side).

The maximum per switch body is 2 each side and the auxillary contacts must be on the outside.

For rear mount the switch body simply snaps onto DIN rail. Note the reversible terminals need to be pushed up before clipping onto the DIN rail and then pushed back down to lock into place and reveal the terminal screw heads.

There are 3 clutch drive kits to accomodate different panel depths and the door interlock shroud ensures the panel door can only be opened in the OFF position.

For front mount various handle options are available that are fixed by screw.

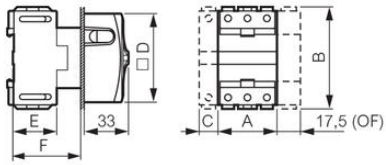
All screw terminals are finger proof to IPxxB but additional terminal covers can be added if required.

Gasket kits are available to increase front of panel protection from IP40 to IP65.

### SPECIFICATIONS

|  |                     |
|--|---------------------|
| <b>Approvals</b>   | CB, cUL, UL         |
| <b>Breaking Capacity Current</b>                             | 100 A               |
| <b>Color</b>   | Red/yellow          |
| <b>Connection solid wire max</b>                             | 50 mm <sup>2</sup>  |
| <b>Connection stranded wire with ferrule max</b>             | 35 mm <sup>2</sup>  |
| <b>Connection stranded wire with ferrule min</b>             | 2.5 mm <sup>2</sup> |
| <b>Conventional enclosed thermal current I<sub>the</sub></b> | 80 A                |

|   |                                |
|---|--------------------------------|
| Conventional free air thermal current I <sub>th</sub>                                   | 100 A                          |
| Mechanical life AC20 (million)  | 0.04                           |
| Number of poles   | 3                              |
| Protection rating front of panel  | IP40                           |
| Protection rating rear of panel   | IPxxB                          |
| Rated break capacity (A <sub>eff</sub> /400V)   | 800 A                          |
| Rated impulse withstand voltage U <sub>imp</sub><br>(Overvoltage cat III - Pollution 3) | 6 kV                           |
| Rated insulation voltage U <sub>i</sub>   | 690 V                          |
| Rated make capacity (A <sub>eff</sub> /400V)  | 1970 A                         |
| Rated operating current I <sub>e</sub> (AC15/230V)                                      | 6 A                            |
| Rated operating current I <sub>e</sub> (AC15/400V)                                      | 4 A                            |
| Rated operating current I <sub>e</sub> (AC21A/22A)                                      | 100 A                          |
| Rated operating power (AC23A/3x230V)  | 22 kW                          |
| Rated operating power (AC23A/3x400V)  | 37 kW                          |
| Rated operating power (AC23A/3x500V)  | 45 kW                          |
| Rated operating power (AC23A/3x690V)  | 30 kW                          |
| Rated operating power (AC3/3x230V)  | 18,5 kW                        |
| Rated operating power (AC3/3x400V)  | 30 kW                          |
| Rated operating power (AC3/3x500V)  | 37 kW                          |
| Rated operating power (AC3/3x690V)  | 22 kW                          |
| Rated short circuit make capacity I <sub>cm</sub> (kA<br>peak/400V)                     | 2,8 kA                         |
| Rated short term withstand current I <sub>cw</sub><br>(A <sub>eff</sub> /400V/1 s)      | 1500 A                         |
| Rated uninterrupted current I <sub>u</sub>  | 100 A                          |
| Short circuit current (kA <sub>eff</sub> /400 V)  | 10 kA                          |
| Short circuit current with fuse gI/gG (A)   | 100 A                          |
| Standards   | CSA 22.2, IEC 60947-3 , UL 508 |
| Temperature range bearing, from   | -30 °C                         |
| Temperature range bearing, to   | 70 °C                          |
| Temperature range from  | -30 °C                         |
| Temperature range to  | 70 °C                          |
| Type  | Switch and handle              |



**Dimensions**

- A: 71.8
- B: 93
- C: 26.8
- D: □ 86
- E: 63.8
- F: 70

