SWITCH DISCONNECTOR 80A

Rated Thermal Current Ith 80A

0172400 Switch Disconnector 3 Pole 80A

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





PRODUCT DESCRIPTION

Switch disconnector 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 accommodate 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.

TECHNICAL DATA

| Approvals | CB, cUL, UL |
|--|-------------|
| Breaking capacity current | 80 A |
| Connection solid wire max | 50 mm² |
| Connection stranded wire with ferrule max | 35 mm² |
| Connection stranded wire with ferrule min | 2.5 mm² |
| Conventional enclosed thermal current Ithe | 63 A |
| Conventional free air thermal current Ith | 80 A |

| Mounting Screw on, TS 35 Number of poles 3 Protection rating front of panel IP40 Protection rating rear of panel IPxxB Rated break capacity (Aeffi400V) 800 A Rated impulse withstand voltage Ulinp (Overvoltage cat III - Pollution 3) 66 kV Rated make capacity (Aeffi400V) 1970 A Rated aske capacity (Aeffi400V) 6 A Rated operating current le (AC15/230V) 6 A Rated operating current le (AC21A/22A) 80 A Rated operating power (AC3A/3x230V) 18,5 kW Rated operating power (AC3A/3x230V) 37 kW Rated operating power (AC3A/3x500V) 37 kW Rated operating power (AC3/3x230V) 15 kW Rated operating power (AC3/3x230V) 15 kW Rated operating power (AC3/3x20V) 18,5 kW Rated operating power (AC3/3x20V) 18,5 kW Rated operating power (AC3/3x20V) 18,5 kW Rated operating power (AC3/3x60V) 28 kA Rated short circuit make capacity lon (kA) peak/400V) 10,0 A Rated short term withstand current low (xaffi400V) 10 kA Short circuit cu | Mechanical life AC20 (million) | 0.04 |
|--|---|--------------------------------|
| Protection rating front of panel P40 Protection rating rear of panel PxxB Rated break capacity (Aeff/400V) 800 A Rated insulation voltage Uimp (Overvoltage cat III - Pollution 3) 890 V Rated make capacity (Aeff/400V) 1970 A Rated operating current le (AC15/230V) 6 A Rated operating current le (AC15/230V) 4 A Rated operating current le (AC15/230V) 80 A Rated operating current le (AC21A/22A) 80 A Rated operating power (AC23A/3x230V) 18,5 kW Rated operating power (AC23A/3x230V) 37 kW Rated operating power (AC23A/3x230V) 22 kW Rated operating power (AC33A/3x230V) 22 kW Rated operating power (AC33A/3x230V) 22 kW Rated operating power (AC33A/3x230V) 23 kW Rated operating power (AC33A/3x230V) 25 kW Rated operating power (AC33A/3x230V) 28 kW Rated operating power (AC33A/3x230V) 18,5 kW Rated operating power (AC33A/3x230V) 28 kW Rated operating power (AC33A/3x230V) 18,5 kW Rated opera | Mounting | Screw on, TS 35 |
| Protection rating rear of panel PxxB Rated break capacity (Aeff/400V) 800 A Rated impulse withstand voltage Uimp (Overvoltage cat III - Pollution 3) 970 A Rated make capacity (Aeff/400V) 1970 A Rated operating current le (AC15/230V) 6 A Rated operating current le (AC15/230V) 4 A Rated operating current le (AC21A/22A) 80 A Rated operating power (AC23A/3x230V) 18.5 kW Rated operating power (AC23A/3x230V) 22 kW Rated operating power (AC23A/3x30V) 22 kW Rated operating power (AC3/3x230V) 22 kW Rated operating power (AC3/3x230V) 18.5 kW Rated operating power (AC3/3x230V) 22 kW Rated operating power (AC3/3x230V) 18.5 kW Rated operating power (AC3/3x230V) 22 kW Rated operating power (AC3/3x500V) 22 kW Rated operating power (AC3/3x500V) 22 kW Rated operating power (AC3/3x500V) 18.5 kW Rated opera | Number of poles | 3 |
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| Rated impulse withstand voltage Ulimp (Overvoltage cat III - Pollution 3) Rated insulation voltage Ui Rated make capacity (Aeffi/400V) Rated operating current le (AC15/230V) Rated operating current le (AC21A/22A) Rated operating current le (AC21A/22A) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x400V) Rated operating power (AC23A/3x400V) Rated operating power (AC23A/3x400V) Rated operating power (AC23A/3x690V) Rated operating power (AC23A/3x690V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x690V) Rated operat | Protection rating rear of panel | IPxxB |
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| Rated operating current le (AC15/230V) | Rated insulation voltage Ui | 690 V |
| Rated operating current le (AC21A/22A) 80 A Rated operating power (AC23A/3x230V) 18,5 kW Rated operating power (AC23A/3x230V) 30 kW Rated operating power (AC23A/3x500V) 37 kW Rated operating power (AC23A/3x500V) 22 kW Rated operating power (AC23A/3x690V) 22 kW Rated operating power (AC3/3x230V) 15 kW Rated operating power (AC3/3x500V) 22 kW Rated operating power (AC3/3x500V) 30 kW Rated operating power (AC3/3x500V) 18,5 kW Rated operating power (AC3/3x690V) 18,5 kW Rated operating power (AC3/3x690V) 18,5 kW Rated short circuit make capacity lcm (kA peak/400V) 2,8 kA Peak/400V) 10 A Rated short term withstand current lcw (Aeff/400V/1 s) Rated uninterrupted current (kAeff/400 V) 10 kA Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3 , UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational min -30 °C | Rated make capacity (Aeff/400V) | 1970 A |
| Rated operating current le (AC21A/22A) 80 A Rated operating power (AC23A/3x230V) 18.5 kW Rated operating power (AC23A/3x400V) 30 kW Rated operating power (AC23A/3x500V) 37 kW Rated operating power (AC23A/3x500V) 15 kW Rated operating power (AC3/3x230V) 15 kW Rated operating power (AC3/3x230V) 22 kW Rated operating power (AC3/3x500V) 30 kW Rated operating power (AC3/3x690V) 18.5 kW Rated operating power (AC3/3x690V) 18.5 kW Rated operating power (AC3/3x690V) 18.5 kW Rated short circuit make capacity lcm (kA peak/400V) 100 A Rated short circuit turrent lcw (Acff/400V/1 s) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3 , UL 508 Storage temperature min -30 °C Temperature operational min -30 °C Temperature operational min -30 °C | Rated operating current le (AC15/230V) | 6 A |
| Rated operating power (AC23A/3x400V) Rated operating power (AC23A/3x400V) Rated operating power (AC23A/3x500V) Rated operating power (AC23A/3x500V) Rated operating power (AC3A/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x400V) Rated operating power (AC3/3x400V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x690V) Rated short circuit make capacity lcm (kA peak/400V) Rated short circuit make capacity lcm (kA peak/400V) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3 , UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational min -30 °C | Rated operating current le (AC15/400V) | 4 A |
| Rated operating power (AC23A/3x400V) Rated operating power (AC23A/3x500V) Rated operating power (AC23A/3x690V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x20V) Rated operating power (AC3/3x500V) Rated short circuit make capacity lcm (kA peak/400V) Rated short circuit make capacity lcm (kA peak/400V) Rated uninterrupted current lcw (Aeff/400V/1 s) Rot circuit current (kAeff/400 V) Rot circuit current (kAeff/400 V) Rot circuit current with fuse gl/gG (A) Short circuit current with fuse gl/gG (A) Storage temperature max CSA 22.2, IEC 60947-3 , UL 508 Storage temperature min -30 °C Temperature operational max 70 °C Temperature operational min -30 °C | Rated operating current le (AC21A/22A) | 80 A |
| Rated operating power (AC23A/3x500V) Rated operating power (AC23A/3x690V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x400V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x690V) Rated operating power (AC3/3x690V) Rated short circuit make capacity Icm (kA peak/400V) Rated short term withstand current Icw (Aeff/400V/1 s) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Storage temperature max 70 °C Storage temperature min 70 °C Temperature operational max 70 °C Temperature operational min | Rated operating power (AC23A/3x230V) | 18,5 kW |
| Rated operating power (AC23A/3x690V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x400V) Rated operating power (AC3/3x400V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x500V) Rated short circuit make capacity lcm (kA peak/400V) Rated short term withstand current lcw (Aeff/400V/1 s) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3 , UL 508 Storage temperature max 70 °C Temperature operational max 70 °C Temperature operational min -30 °C | Rated operating power (AC23A/3x400V) | 30 kW |
| Rated operating power (AC3/3x230V) Rated operating power (AC3/3x400V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x590V) Rated short circuit make capacity lcm (kA peak/400V) Rated short term withstand current lcw (Aeff/400V/1 s) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) Short circuit current with fuse gl/gG (A) Standards CSA 22.2, IEC 60947-3 , UL 508 Storage temperature max 70 °C Temperature operational max 70 °C Temperature operational min | Rated operating power (AC23A/3x500V) | 37 kW |
| Rated operating power (AC3/3x400V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x690V) Rated short circuit make capacity lcm (kA peak/400V) Rated short term withstand current lcw (Aeff/400V/1 s) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) Standards CSA 22.2, IEC 60947-3 , UL 508 Storage temperature max 70 °C Temperature operational max 70 °C Temperature operational min -30 °C | Rated operating power (AC23A/3x690V) | 22 kW |
| Rated operating power (AC3/3x590V) Rated operating power (AC3/3x690V) Rated short circuit make capacity lcm (kA peak/400V) Rated short term withstand current lcw (Aeff/400V/1 s) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3, UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational min -30 °C | Rated operating power (AC3/3x230V) | 15 kW |
| Rated operating power (AC3/3x690V) Rated short circuit make capacity lcm (kA peak/400V) Rated short term withstand current lcw (Aeff/400V/1 s) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3 , UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational max 70 °C | Rated operating power (AC3/3x400V) | 22 kW |
| Rated short circuit make capacity lcm (kA peak/400V) Rated short term withstand current lcw (Aeff/400V/1 s) Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3 , UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational min -30 °C | Rated operating power (AC3/3x500V) | 30 kW |
| Rated short term withstand current Icw (Aeff/400V/1 s) Rated uninterrupted current Iu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) Standards CSA 22.2, IEC 60947-3, UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational max 70 °C | Rated operating power (AC3/3x690V) | 18,5 kW |
| Rated uninterrupted current lu 80 A Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3, UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational max 70 °C | • • • | 2,8 kA |
| Short circuit current (kAeff/400 V) Short circuit current with fuse gl/gG (A) Standards CSA 22.2, IEC 60947-3, UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational max 70 °C | | 1100 A |
| Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3, UL 508 Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational max 70 °C Temperature operational min -30 °C | Rated uninterrupted current lu | 80 A |
| StandardsCSA 22.2, IEC 60947-3 , UL 508Storage temperature max70 °CStorage temperature min-30 °CTemperature operational max70 °CTemperature operational min-30 °C | Short circuit current (kAeff/400 V) | 10 kA |
| Storage temperature max 70 °C Storage temperature min -30 °C Temperature operational max 70 °C Temperature operational min -30 °C | Short circuit current with fuse gl/gG (A) | 80 A |
| Storage temperature min -30 °C Temperature operational max 70 °C Temperature operational min -30 °C | Standards | CSA 22.2, IEC 60947-3 , UL 508 |
| Temperature operational max 70 °C Temperature operational min -30 °C | Storage temperature max | 70 °C |
| Temperature operational min -30 °C | Storage temperature min | -30 °C |
| | Temperature operational max | 70 °C |
| Tyne Switch block | Temperature operational min | -30 °C |
| Type Switch block | Туре | Switch block |





