

## **SWITCH DISCONNECTOR 80A**

Rated Thermal Current Ith 80A

0172401 SWITCH DISCONNECTOR COMPLETE 80 A

- 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.

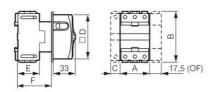
All screw terminals are finger proof to IPxxB but additional terminal covers can be added if required.

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

## **SPECIFICATIONS**

| Approvals                                  | CB, cUL, UL |
|--|-------------|
| Breaking Capacity Current                  | 80 A        |
| Color                                      | Red/yellow  |
| 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        |

| Mechanical life AC20 (million)         0.04           Mounting         Screw on, TS35           Number of poles         3           Protection rating front of panel         IP40           Protection rating rear of panel         IPox8           Rated break capacity (Aeff/400V)         800 A           Rated preak capacity (Aeff/400V)         690 V           Rated ansulation voltage Ulimp (Overvoltage Ulim (Overvoltage Ulim) (Overvoltage Ulim) (Aeff/400V)         6A           Rated paraling current le (AC15/230V)         6A           Rated operating current le (AC15/230V)         6A           Rated operating power (AC23A/3x230V)         19.5 kW           Rated operating power (AC23A/3x230V)         19.5 kW           Rated operating power (AC23A/3x3690V)         2V           Rated operating power (AC23A/3x560V)         2V           Rated operating power (AC33A/3x560V)         3V           Rated operating power (AC33A/3x560V)         2V           Rated operating power (AC33A/3x560V)         3V           Rated operating power (AC3A/3x560V)         3V           Rated operating power (AC3A/3x560V)   | Conventional free air thermal current Ith | 80 A                          |
|--|---|-------------------------------|
| Number of poles   1940  | Mechanical life AC20 (million)            | 0.04                          |
| Protection rating front of panel Protection rating rear of panel Rated break capacity (Aeff/400V) Rated impulse withstand voltage Uimp (Overvoltage cat III - Pollution 3) Rated insulation voltage Ui Rated operating current le (AC15/230V) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x300V) Rated operating power (AC23A/3x300V) Rated operating power (AC23A/3x500V) Rated operating power (AC23A/3x500V) Rated operating power (AC33/3x500V) Rated short circuit make capacity lcm (kA peak/d00V) Rated uninterrupted current lcw (Aeff/400V/1 s) Roth circuit current (kAeff/400 V) Roth circuit current with fuse gl/gG (A) Rated power ange bearing, from  70 °C Temperature range bearing, from  70 °C Temperature range bearing, from  70 °C Temperature range from  70 °C  | Mounting                                  | Screw on, TS35                |
| Protection rating rear of panel   PxxB   Rated break capacity (Aeffi400V)   800 A   Rated impulse withstand voltage Uimp (Overvoltage cat III - Poliution 3)   970 A   Rated make capacity (Aeffi400V)   970 A   Rated operating current le (AC15/230V)   6 A   Rated operating current le (AC15/230V)   4 A   Rated operating current le (AC214/22A)   80 A   Rated operating power (AC23A/3x230V)   81.5 kW   Rated operating power (AC23A/3x230V)   22 kW   Rated operating power (AC23A/3x550V)   25 kW   Rated operating power (AC3/3x230V)   25 kW   Rated operating power (AC3/3x230V)   25 kW   Rated operating power (AC3/3x230V)   25 kW   Rated operating power (AC3/3x550V)   25 kW   Rated operating power (AC3/3x550V)   30 kW   Rated operating power  | Number of poles                           | 3                             |
| Rated break capacity (Aeff400V) Rated impulse withstand voltage Ulimp (Overvoltage cat III - Pollution 3) Rated impulse withstand voltage Ulimp (Overvoltage cat III - Pollution 3) Rated insulation voltage Ui Rated make capacity (Aeff1400V) Rated operating current le (AC15/230V) Rated operating current le (AC215/230V) Rated operating current le (AC21A/22A) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x230V) Rated operating power (AC3A/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x500V) | Protection rating front of panel          | IP40                          |
| Rated impulse withstand voltage Uimp (Overvoltage cat III - Pollution 3)  Rated insulation voltage Ui  Rated make capacity (Aeffl/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/3x500V)  Rated operating power (AC23A/3x500V)  Rated operating power (AC23A/3x500V)  Rated operating power (AC23A/3x500V)  Rated operating power (AC3/3x500V)  Rated operati | Protection rating rear of panel           | IPxxB                         |
| (Overvoltage cat III - Pollution 3)           Rated insulation voltage UI         690 V           Rated make capacity (Aeff/400V)         1970 A           Rated operating current le (AC15/230V)         6 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 (AC33A/3x500V)         15 kW           Rated operating power (AC3/3x230V)         15 kW           Rated operating power (AC3/3x500V)         30 kW           Rated operating power (AC3/3x500V)         15,5 kW           Rated operating power (AC3/3x500V)         10 kA           Rated short circuit make capacity lcm (kA peak/400V)         100 A           Rated short circuit with fuse capacity lcm (kA peak/400V)         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           Tempe  | Rated break capacity (Aeff/400V)          | 800 A                         |
| Rated make capacity (Aeff/400V) Rated operating current le (AC15/230V) Rated operating current le (AC15/400V) Rated operating current le (AC21A/22A) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x500V) Rated operating power (AC23A/3x500V) Rated operating power (AC3A/3x500V) Rated operating power (AC3A/3x230V) Rated operating power (AC3A/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x250V) Rated operating power (AC3/3x250V) Rated operating power (AC3/3x500V) Rated operating power (AC3/3x500V) 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 lcw (Aeff/400V) Rated uninterrupted current lcw (Aeff/400V) Rated uninterrupted current lcw (Aeff/400V) Rated short circuit current (KAeff/400 V) Rated uninterrupted current lcw (Aeff/400V) Rated short circuit current with fuse gl/gG (A) Rated uninterrupted current with fuse gl/gG (A) Rated uninterrupted current with fuse gl/gG (A) Rated uninterrupted current with fuse gl/gG (A) Rated short circuit current with fuse gl/gG (A) Rated uninterrupted current with fuse gl/gG (A) Rated short circuit current with fuse gl/gG (A) Rated s |   | 6 kV                          |
| Rated operating current le (AC15/230V) 4 A Rated operating current le (AC15/400V) 4 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 (AC3A/3x230V) 15 kW Rated operating power (AC3/3x230V) 22 kW Rated operating power (AC3/3x230V) 30 kW Rated operating power (AC3/3x500V) 30 kW Rated operating power (AC3/3x500V) 30 kW Rated operating power (AC3/3x500V) 18,5 kW Rated operating power (AC3/3x500V) 18,5 kW Rated short circuit make capacity Icm (kA peak/400V) 2,8 kA Peak/400V/1 s) Rated short circuit make capacity Icm (kA peak/400V) 10 kA Short circuit current (kAeff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 222, IEC 60947-3, UL 508 Temperature range bearing, to 70 °C Temperature range from 30 °C Temperature range from 70 °C  | Rated insulation voltage Ui               | 690 V                         |
| Rated operating current le (AC15/400V) 4 A 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) 15 kW Rated operating power (AC23A/3x500V) 22 kW Rated operating power (AC3/3x230V) 15 kW Rated operating power (AC3/3x230V) 30 kW Rated operating power (AC3/3x500V) 30 kW Rated operating power (AC3/3x500V) 18,5 kW Rated operating power (AC3/3x500V) 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 make capacity lcm (kA peak/400V) 100 A Short circuit 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 222, IEC 60947-3, UL 508 Temperature range bearing, from 70 °C Temperature range from 30 °C Temperature range from 70 °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 (AC3/3x500V) 18.5 kW Rated operating power (AC3/3x500V) 18.5 kW Rated operating power (AC3/3x690V) 18.5 kW Rated short circuit make capacity lcm (kA peak/400V) 28 kA Packd short circuit make capacity lcm (kA peak/400V) 100 A Rated short term withstand current lcw (Acff/400V/1 s) 80 A Short circuit current (kAcff/400 V) 10 kA Short circuit current with fuse gl/gG (A) 80 A Standards CSA 22.2, IEC 60947-3, UL 508 Temperature range bearing, from -30 °C Temperature range from -30 °C Temperature range from -30 °C  | Rated operating current le (AC15/230V)    | 6 A                           |
| Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x230V) Rated operating power (AC23A/3x500V) Rated operating power (AC23A/3x500V) Rated operating power (AC23A/3x500V) 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 (AC3/3x500V) 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 (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 Temperature range bearing, from -30 °C Temperature range from -30 °C Temperature range from -30 °C Temperature range from -30 °C   | Rated operating current le (AC15/400V)    | 4 A                           |
| Rated operating power (AC23A/3x400V) Rated operating power (AC23A/3x500V) Rated operating power (AC23A/3x500V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x230V) Rated operating power (AC3/3x400V) Rated operating power (AC3/3x500V) Rated oper | Rated operating current le (AC21A/22A)    | 80 A                          |
| Rated operating power (AC23A/3x590V) 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 (AC3/3x690V) 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 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 Temperature range bearing, from -30 °C Temperature range from -30 °C Temperature range from -30 °C   | 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 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 Temperature range bearing, from 70 °C Temperature range from -30 °C Temperature range to 70 °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 (AC3/3x500V) Rated short circuit make capacity Icm (kA peak/400V) Rated short circuit make capacity Icm (kA peak/400V) 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) 80 A Standards CSA 22.2, IEC 60947-3, UL 508 Temperature range bearing, from -30 °C Temperature range from -30 °C Temperature range from -30 °C Temperature range to 70 °C  | Rated operating power (AC23A/3x500V)      | 37 kW                         |
| 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 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 Temperature range bearing, from 70 °C Temperature range from -30 °C Temperature range from -30 °C   | Rated operating power (AC23A/3x690V)      | 22 kW                         |
| 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) 80 A  Standards  CSA 22.2, IEC 60947-3, UL 508  Temperature range bearing, from -30 °C  Temperature range from -30 °C  Temperature range from -30 °C  | Rated operating power (AC3/3x230V)        | 15 kW                         |
| 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 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  Temperature range bearing, from  -30 °C  Temperature range from  -30 °C  Temperature range to  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  Temperature range bearing, from -30 °C  Temperature range from -30 °C  Temperature range from -30 °C  Temperature range to 70 °C  | Rated operating power (AC3/3x500V)        | 30 kW                         |
| 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  Temperature range bearing, from  -30 °C  Temperature range from  -30 °C  Temperature range from  -30 °C  Temperature range to  70 °C  | Rated operating power (AC3/3x690V)        | 18,5 kW                       |
| (Aeff/400V/1 s)Rated uninterrupted current lu80 AShort circuit current (kAeff/400 V)10 kAShort circuit current with fuse gl/gG (A)80 AStandardsCSA 22.2, IEC 60947-3, UL 508Temperature range bearing, from-30 °CTemperature range bearing, to70 °CTemperature range from-30 °CTemperature range to70 °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  Temperature range bearing, from  70 °C  Temperature range from  -30 °C  Temperature range from  70 °C  |   | 1100 A                        |
| Short circuit current with fuse gl/gG (A)  Standards  CSA 22.2, IEC 60947-3, UL 508  Temperature range bearing, from  70 °C  Temperature range from  -30 °C  Temperature range from  70 °C  Temperature range to  70 °C  | Rated uninterrupted current lu            | 80 A                          |
| StandardsCSA 22.2, IEC 60947-3, UL 508Temperature range bearing, from-30 °CTemperature range bearing, to70 °CTemperature range from-30 °CTemperature range to70 °C   | Short circuit current (kAeff/400 V)       | 10 kA                         |
| Temperature range bearing, from -30 °C  Temperature range bearing, to 70 °C  Temperature range from -30 °C  Temperature range to 70 °C   | Short circuit current with fuse gl/gG (A) | 80 A                          |
| Temperature range bearing, to 70 °C  Temperature range from -30 °C  Temperature range to 70 °C   | Standards                                 | CSA 22.2, IEC 60947-3, UL 508 |
| Temperature range from -30 °C  Temperature range to 70 °C  | Temperature range bearing, from           | -30 °C                        |
| Temperature range to 70 °C   | Temperature range bearing, to             | 70 °C                         |
| · · · · · · · · · · · · · · · · · · ·  | Temperature range from                    | -30 °C                        |
| Type Switch and handle   | Temperature range to                      | 70 °C                         |
|  | Туре                                      | Switch and handle             |



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

