



PRODUCT-DETAILS

# OT80F3

## OT80F3 SWITCH-DISCONNECTOR



| General Information   |                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | OT80F3                                                                                                                                                                       |
| Product ID            | 1SCA105798R1001                                                                                                                                                              |
| EAN                   | 6417019397016                                                                                                                                                                |
| Catalog Description   | OT80F3 SWITCH-DISCONNECTOR                                                                                                                                                   |
| Long Description      | 3-pole, front operated, base mounted, DIN-rail mountable switch-diconnector / non-fusible diconnect switch with protected clamp terminals, handle and shaft are not included |

| Eco Transparency                        |                 |
|-----------------------------------------|-----------------|
| Environmental Product Declaration - EPD | 1SCC301279D0201 |

| Environmental             |                 |
|---------------------------|-----------------|
| Environmental Information | 1SCC301263D0201 |

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| <b>Material Compliance</b>                  |                                                                        |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                                        |
| REACH Declaration                           | 1SCC011021D0201                                                        |
| RoHS Information                            | 1SCC011020D0201                                                        |
| RoHS Status                                 | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA         | 1SCC011025D0201                                                        |

|                        |              |
|------------------------|--------------|
| <b>Ordering</b>        |              |
| Minimum Order Quantity | 10 piece     |
| Customs Tariff Number  | 85365080     |
| Country of Origin      | Finland (FI) |

|                                         |                                                                      |
|-----------------------------------------|----------------------------------------------------------------------|
| <b>Popular Downloads</b>                |                                                                      |
| Data Sheet, Technical Information       | 1SCC301020C0201                                                      |
| Instructions and Manuals                | 1SCC301064M0212                                                      |
| Mechanical Drawings                     | 1SCC301450F0001<br>1SCC301449F0001<br>OT63-80F3.stp<br>OT63-80F3.igs |
| Environmental Product Declaration - EPD | 1SCC301279D0201                                                      |

|                            |         |
|----------------------------|---------|
| <b>Dimensions</b>          |         |
| Product Net Width          | 52.5 mm |
| Product Net Height         | 91.5 mm |
| Product Net Depth / Length | 72.5 mm |
| Product Net Weight         | 0.25 kg |

|                                                          |                                                                                    |
|----------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Technical</b>                                         |                                                                                    |
| Rated Operational Current AC-21A (I <sub>e</sub> )       | (380 ... 415 V) 80 A<br>(500 V) 80 A<br>(690 V) 80 A                               |
| Rated Operational Current AC-22A (I <sub>e</sub> )       | (380 ... 415 V) 80 A<br>(500 V) 80 A<br>(690 V) 80 A                               |
| Rated Operational Current AC-23A (I <sub>e</sub> )       | (380 ... 415 V) 75 A<br>(500 V) 58 A<br>(690 V) 20 A                               |
| Rated Operational Power AC-23A (P <sub>e</sub> )         | (220 ... 240 V) 22 kW<br>(400 ... 415 V) 37 kW<br>(500 V) 37 kW<br>(690 V) 18.5 kW |
| Conventional Free-air Thermal Current (I <sub>th</sub> ) | Θ = 40 °C 80 A                                                                     |
| Conventional Thermal Current (I <sub>the</sub> )         | Fully Enclosed 80 A                                                                |

|                                                                         |                                                                                      |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Rated Impulse<br>Withstand Voltage (U <sub>imp</sub> )                  | 8 kV                                                                                 |
| Rated Insulation Voltage<br>(U <sub>i</sub> )                           | acc. to IEC/EN 60664-1 750 V                                                         |
| Rated Operational<br>Voltage                                            | Main Circuit 750 V                                                                   |
| Rated Short-Circuit<br>Making Capacity (I <sub>cm</sub> )               | (690 V) 2.1 kA                                                                       |
| Rated Short-time<br>Withstand Current Low<br>Voltage (I <sub>cw</sub> ) | for 1 s 1.5 kA                                                                       |
| Rated Conditional Short-<br>Circuit Current (I <sub>nc</sub> )          | (100 A fuse, ≤415 V) 50 kA<br>(100 A fuse, 500 V) 100 kA<br>(80 A fuse, 690 V) 50 kA |
| Power Loss                                                              | at Rated Operating Conditions per Pole 4.5 W                                         |
| Pollution Degree                                                        | 3                                                                                    |
| Handle Type                                                             | Knob<br>Handle and shaft not included                                                |
| Switches Operating<br>Mechanism                                         | Mechanism on Top of the Switch                                                       |
| Distance Between<br>Phases                                              | Standard                                                                             |
| Position of Line<br>Terminals                                           | Top In - Bottom Out<br>Bottom In - Top Out                                           |
| Operating Mode                                                          | Front operated                                                                       |
| Standards                                                               | IEC 60947-3 / UL 508 / CSA C22.2 No. 14                                              |
| Special Functions                                                       | No                                                                                   |
| Mounting Type                                                           | Base mounting                                                                        |
| Number of Poles                                                         | 3                                                                                    |
| Cable Cross-Section                                                     | Cu 1.5 ... 35 mm <sup>2</sup>                                                        |
| Degree of Protection                                                    | Front IP20                                                                           |
| Terminal Type                                                           | Screw Terminals                                                                      |
| Tightening Torque                                                       | acc. IEC 60947-1 2 N·m                                                               |
| Mechanical Durability                                                   | 20000                                                                                |
| Lock Type                                                               | No                                                                                   |

Technical UL/CSA

|                                     |                                                                                                                                                                                                                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Operating<br>Voltage UL/CSA | 600 V                                                                                                                                                                                                                                                                           |
| Ampere Rating                       | 80 A                                                                                                                                                                                                                                                                            |
| Horsepower Rating<br>UL/CSA         | (110 ... 120 V AC) Single Phase 2 Hp<br>(240 V AC) Single Phase 10 Hp<br>(440 ... 480 V AC) Single Phase 20 Hp<br>(550 ... 600 V AC) Single Phase 20 Hp<br>(220 ... 240 V AC) Three Phase 20 Hp<br>(440 ... 480 V AC) Three Phase 40 Hp<br>(550 ... 600 V AC) Three Phase 40 Hp |
| Tightening Torque                   | acc. IEC 60947-1 2 N·m                                                                                                                                                                                                                                                          |
| Tightening Torque<br>UL/CSA         | 18 in·lb                                                                                                                                                                                                                                                                        |

Certificates and Declarations

|                       |                         |
|-----------------------|-------------------------|
| A2L Certificate – IEC | ISCC301335D0201         |
| ATEX Certificate      | No certification needed |
| Declaration of        | ISCC301167D2704         |

|                 |                           |
|-----------------|---------------------------|
| Conformity - CE |                           |
| UL Certificate  | cULus certificate OT16-80 |
| VDE Certificate | No certification needed   |

Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 84 mm         |
| Package Level 1 Depth / Length | 103 mm        |
| Package Level 1 Height         | 64 mm         |
| Package Level 1 Gross Weight   | 0.27 kg       |
| Package Level 1 EAN            | 6417019397016 |

Classifications

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| Object Classification Code         | Q                                                          |
| ETIM 8                             | EC000216 - Switch disconnecter                             |
| ETIM 9                             | EC000216 - Switch disconnecter (low voltage)               |
| UNSPSC                             | 39122233                                                   |
| IDEA Granular Category Code (IGCC) | 5290 >> Disconnect switch                                  |
| eClass                             | V11.1 : 27371403                                           |
| WEEE Category                      | 5. Small Equipment (No External Dimension More Than 50 cm) |
| E-Number (Finland)                 | 3601458                                                    |
| E-Number (Sweden)                  | 3170941                                                    |

Categories

Low Voltage Products and Systems → Switches → Switch Disconnectors

