



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-d disconnect switch with protected clamp terminals. handle and shaft are not included |

| ABB EcoSolutions | |
|-----------------------------------------|-----------------|
| Environmental Information | 1SCC301263D0201 |
| Environmental Product Declaration - EPD | 1SCC301279D0201 |

| Material Compliance | |
|---------------------------------------------|-----------------|
| 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 |

Popular Downloads

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

Environmental

| | |
|---------------------------|-----------------|
| Degree of Protection | Front IP20 |
| Environmental Information | 1SCC301263D0201 |
| Pollution Degree | 3 |

Ordering

| | |
|------------------------|--------------|
| Minimum Order Quantity | 10 piece |
| Customs Tariff Number | 85365080 |
| Country of Origin | Finland (FI) |

Dimensions

| | |
|----------------------------|---------|
| 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 |

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 |

Technical

| | |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Cable Cross-Section | Cu 1.5 ... 35 mm² |
| Connecting Capacity Main Circuit | Flexible with Ferrule 1x Cu 1.5...4 mm² Solid 1x Cu 1.5...6 mm² Flexible 1x Cu 1.5...35 mm² Stranded 1x Cu 1.5...35 mm² |
| Conventional Free-air Thermal Current (I _{th}) | Θ = 40 °C 80 A |
| Conventional Thermal Current (I _{the}) | Fully Enclosed 80 A |

| | |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Degree of Protection | Front IP20 |
| Distance Between Phases | Standard |
| Handle Type | Knob Handle and shaft not included |
| Lock Type | No |
| Mechanical Durability | 20000 |
| Mounting Type | Base mounting |
| Number of Poles | 3P |
| Operating Mode | Front operated |
| Pollution Degree | 3 |
| Position of Line Terminals | Top In - Bottom Out Bottom In - Top Out |
| Power Loss | at Rated Operating Conditions per Pole 4.5 W |
| Rated Conditional Short-Circuit Current (I_{nc}) | (100 A fuse, ≤ 415 V) 50 kA (100 A fuse, 500 V) 100 kA (80 A fuse, 690 V) 50 kA |
| Rated Impulse Withstand Voltage (U_{imp}) | 8 kV |
| Rated Insulation Voltage (U_i) | acc. to IEC/EN 60664-1 750 V |
| Rated Operational Current AC-21A (I_e) | (380 ... 415 V) 80 A (500 V) 80 A (690 V) 80 A |
| Rated Operational Current AC-22A (I_e) | (380 ... 415 V) 80 A (500 V) 80 A (690 V) 80 A |
| Rated Operational Current AC-23A (I_e) | (380 ... 415 V) 75 A (500 V) 58 A (690 V) 20 A |
| Rated Operational Power AC-23A (P_e) | (220 ... 240 V) 22 kW (400 ... 415 V) 37 kW (500 V) 37 kW (690 V) 18.5 kW |
| Rated Operational Voltage | Main Circuit 750 V |
| Rated Short-Circuit Making Capacity (I_{cm}) | (690 V) 2.1 kA |
| Rated Short-time Withstand Current Low Voltage (I_{cw}) | for 1 s 1.5 kA |
| Recommended Screw Driver | Main Circuit Pozidriv 2 |
| Special Functions | No |
| Standards | IEC 60947-3 / UL 508 / CSA C22.2 No. 14 |
| Switches Operating Mechanism | Mechanism on Top of the Switch |
| Terminal Type | Screw Terminals |
| Tightening Torque | acc. IEC 60947-1 2 N·m |
| Wire Stripping Length | Main Circuit 10-12 mm |

Technical UL/CSA

| | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Operating Voltage UL/CSA | 600 V |
| Ampere Rating | 80 A |
| Horsepower Rating UL/CSA | (110 ... 120 V AC) Single Phase 2 Hp (240 V AC) Single Phase 10 Hp (440 ... 480 V AC) Single Phase 20 Hp (550 ... 600 V AC) Single Phase 20 Hp (220 ... 240 V AC) Three Phase 20 Hp (440 ... 480 V AC) Three Phase 40 Hp (550 ... 600 V AC) Three Phase 40 Hp |
| Wire Stripping Length | Main Circuit 10-12 mm |
| Recommended Screw Driver | Main Circuit Pozidriv 2 |
| Tightening Torque | acc. IEC 60947-1 2 N·m |

| | |
|-------------------|----------|
| Tightening Torque | 18 in·lb |
| UL/CSA | |

| | |
|--------------------------------|---------------------------|
| Certificates and Declarations | |
| A2L Certificate - IEC | 1SCC301335D0201 |
| ATEX Certificate | No certification needed |
| Declaration of Conformity - CE | 1SCC301167D2704 |
| UL Certificate | cULus certificate OT16-80 |
| VDE Certificate | No certification needed |

| | |
|----------------------------------------|------------------------------------------------------------|
| External Classifications and Standards | |
| 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 (Norway) | 4363528 |
| E-Number (Sweden) | 3170941 |

| | |
|--------------------------------------------------------------------|--|
| Categories | |
| Low Voltage Products and Systems → Switches → Switch Disconnectors | |

