



PRODUCT-DETAILS

# OT80G2-3BS

## OT80G2-3BS SWITCH DISCONNECTOR



| General Information    |                                                                                                                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type: | OT80G2-3BS                                                                                                                                                                                                                                                                                                                    |
| Product ID:            | 1SCA162549R1001                                                                                                                                                                                                                                                                                                               |
| EAN:                   | 6417019925844                                                                                                                                                                                                                                                                                                                 |
| Catalog Description:   | OT80G2-3BS SWITCH DISCONNECTOR                                                                                                                                                                                                                                                                                                |
| Long Description:      | OT Plus Switch disconnecter series. 3-pole front operated base mounted DIN-rail mountable switch disconnecter suitable for panels with 45mm DIN cut-out. The switch disconnecter has inbuilt screw terminals and comes with direct-mounted knob handle that can be padlocked and shaft can be mounted for external operation. |
| Display Name:          | OT80G2-3BS                                                                                                                                                                                                                                                                                                                    |

| ABB EcoSolutions                         |                 |
|------------------------------------------|-----------------|
| ABB EcoSolutions:                        | Yes             |
| End Of Life Disassembling Instructions:  | 1SCC301147M0201 |
| Environmental Information:               | 1SCC301333D0201 |
| Environmental Product Declaration - EPD: | 1SCC301333D0201 |

| Material Compliance                          |                                                                        |
|----------------------------------------------|------------------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT): | 9AKK108467A5658                                                        |
| REACH Declaration:                           | 1SCC011021D0201                                                        |
| RoHS Declaration:                            | 1SCC011020D0201                                                        |
| RoHS Information:                            | 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: | 9AKK108468A5537<br>1SCC301020C0201 |
| Instructions and Manuals:          | 1SCC301134M0201                    |
| Mechanical Drawings:               | OT63_100G2_3BS.stp                 |

| Environmental         |            |
|-----------------------|------------|
| Degree of Protection: | Front IP20 |
| Pollution Degree:     | 3          |

| Ordering                |          |
|-------------------------|----------|
| Minimum Order Quantity: | 1 piece  |
| Customs Tariff Number:  | 85363030 |
| Country of Origin:      | Finland  |

| Dimensions                  |          |
|-----------------------------|----------|
| Product Net Width:          | 52.5 mm  |
| Product Net Height:         | 91.5 mm  |
| Product Net Depth / Length: | 73 mm    |
| Product Net Weight:         | 0.251 kg |

| Container Information           |                 |
|---------------------------------|-----------------|
| Package Level 1 Units:          | box 1 piece     |
| Package Level 1 Width:          | 59 mm           |
| Package Level 1 Depth / Length: | 98 mm           |
| Package Level 1 Height:         | 77 mm           |
| Package Level 1 Gross Weight:   | 0.285 kg        |
| Package Level 1 EAN:            | 6417019925844   |
| Package Level 2 Units:          | carton 10 piece |

|                                 |         |
|---------------------------------|---------|
| Package Level 2 Width:          | 368 mm  |
| Package Level 2 Depth / Length: | 217 mm  |
| Package Level 2 Height:         | 91 mm   |
| Package Level 2 Gross Weight:   | 2.85 kg |

Technical

|                                                                    |                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Color:                                                             | Grey                                                                                                                                                                                                                                                                       |
| Connecting Capacity Main Circuit:                                  | Flexible with Ferrule 1/2x Cu 1.5...4 mm <sup>2</sup><br>Solid 1/2x Cu 1.5...6 mm <sup>2</sup><br>Flexible 1x Cu 1.5...35 mm <sup>2</sup><br>Flexible 2x Cu 1.5...16 mm <sup>2</sup><br>Stranded 1x Cu 1.5...35 mm <sup>2</sup><br>Stranded 2x Cu 1.5...16 mm <sup>2</sup> |
| Conventional Free-air Thermal Current (I <sub>th</sub> ):          | 80 A                                                                                                                                                                                                                                                                       |
| Conventional Thermal Current (I <sub>the</sub> ):                  | 80 A                                                                                                                                                                                                                                                                       |
| Handle Color:                                                      | Black                                                                                                                                                                                                                                                                      |
| Handle Length:                                                     | 37 mm                                                                                                                                                                                                                                                                      |
| Handle Type:                                                       | Knob                                                                                                                                                                                                                                                                       |
| Lock Type:                                                         | Padlockable                                                                                                                                                                                                                                                                |
| Maximum Mounted Auxiliary Contacts:                                | 4 NO, 4 NC                                                                                                                                                                                                                                                                 |
| Mechanical Durability:                                             | Nr. Operations 100000                                                                                                                                                                                                                                                      |
| Mounting Type:                                                     | Base/DIN mounting                                                                                                                                                                                                                                                          |
| Number of Poles:                                                   | 3P                                                                                                                                                                                                                                                                         |
| Operating Mode:                                                    | Front                                                                                                                                                                                                                                                                      |
| Position of Line Terminals:                                        | Top In - Bottom Out<br>Bottom In - Top Out                                                                                                                                                                                                                                 |
| Power Loss:                                                        | at Rated Operating Conditions per Pole 3.4 W                                                                                                                                                                                                                               |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> ):        | (80 A fuse, 690 V) 50 kA                                                                                                                                                                                                                                                   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):               | 8 kV                                                                                                                                                                                                                                                                       |
| Rated Insulation Voltage (U <sub>i</sub> ):                        | acc. to IEC 60947-1 800 V                                                                                                                                                                                                                                                  |
| Rated Operational Current AC-21A (I <sub>e</sub> ):                | (415 V) 80 A<br>(500 V) 80 A<br>(690 V) 80 A                                                                                                                                                                                                                               |
| Rated Operational Current AC-22A (I <sub>e</sub> ):                | (415 V) 80 A<br>(500 V) 80 A<br>(690 V) 80 A                                                                                                                                                                                                                               |
| Rated Operational Current AC-23A (I <sub>e</sub> ):                | (415 V) 80 A<br>(500 V) 58 A<br>(690 V) 40 A                                                                                                                                                                                                                               |
| Rated Operational Power AC-23A (P <sub>e</sub> ):                  | (415 V) 45 kW<br>(500 V) 37 kW<br>(690 V) 37 kW                                                                                                                                                                                                                            |
| Rated Operational Voltage:                                         | Main Circuit 800 V                                                                                                                                                                                                                                                         |
| Rated Short-Circuit Making Capacity (I <sub>cm</sub> ):            | (690 V) 3.5 kA                                                                                                                                                                                                                                                             |
| Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> ): | for 1 s 1.5 kA<br>for 0.2 s 2.5 kA                                                                                                                                                                                                                                         |

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Recommended Screw Driver:</b>     | Main Circuit Pozidriv 2                            |
| <b>Special Functions:</b>            | No                                                 |
| <b>Standards:</b>                    | IEC60947-3<br>UL60947-4-1<br>CSA C22.2 No.14       |
| <b>Switches Operating Mechanism:</b> | Mechanism on Top of the Switch                     |
| <b>Terminal Type:</b>                | Screw Terminals                                    |
| <b>Tightening Torque:</b>            | acc. IEC 60947-1 2 N·m                             |
| <b>Wire Stripping Length:</b>        | Main Circuit 13-16 mm<br>Main Circuit 0.51-0.63 in |

## Technical UL/CSA

|                                          |                                                                                                                                                                                                                                                                                                                |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum Operating Voltage UL/CSA:</b> | 600 V                                                                                                                                                                                                                                                                                                          |
| <b>Ampere Rating:</b>                    | 80 A                                                                                                                                                                                                                                                                                                           |
| <b>Horsepower Rating UL/CSA:</b>         | (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>(110 ... 120 V AC) Three Phase 5 Hp<br>(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 |
| <b>Wire Size:</b>                        | 1x 16-2 AWG<br>2x 16-8 AWG                                                                                                                                                                                                                                                                                     |
| <b>Tightening Torque UL/CSA:</b>         | UL 18 lbf·in                                                                                                                                                                                                                                                                                                   |

## Certificates and Declarations

|                                        |                                  |
|----------------------------------------|----------------------------------|
| <b>CCC Certificate:</b>                | CCC OT63-100G2                   |
| <b>Declaration of Conformity - CE:</b> | 1SCC301329D2701                  |
| <b>DNV Certificate:</b>                | 1SCC301347D0201                  |
| <b>UL Certificate:</b>                 | cULus certificate OT_OTC63-100G2 |

## External Classifications and Standards

|                                            |                                                            |
|--------------------------------------------|------------------------------------------------------------|
| <b>Object Classification Code:</b>         | Q                                                          |
| <b>ETIM 9:</b>                             | EC000216 - Switch disconnecter (low voltage)               |
| <b>ETIM 10:</b>                            | EC000216 - Switch disconnecter (AC)                        |
| <b>UNSPSC:</b>                             | 39122233                                                   |
| <b>IDEA Granular Category Code (IGCC):</b> | 5290 >> Disconnect switch                                  |
| <b>eClass:</b>                             | V11.1 : 27371403                                           |
| <b>WEEE Category:</b>                      | 5. Small Equipment (No External Dimension More Than 50 cm) |
| <b>E-Number (Finland):</b>                 | 3642547                                                    |
| <b>E-Number (Norway):</b>                  | 4384707                                                    |
| <b>E-Number (Sweden):</b>                  | 3172107                                                    |

---

## Categories

---

Products > Low Voltage Products and Systems > Switches > Switch Disconnectors



  
ABB  
**Eco**  
Solutions™