

## PRODUCT-DETAILS

# OTDC245US20S

## OTDC245US20S PV Disconnect Switch



### General Information

|                       |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| Extended Product Type | OTDC245US20S                                                                                        |
| Product ID            | 1SCA149115R1001                                                                                     |
| EAN                   | 6417019787176                                                                                       |
| Catalog Description   | OTDC245US20S PV Disconnect Switch                                                                   |
| Long Description      | OTDC245US20S PV Disconnect Switch, Handle and shaft not included, Base mounting, IEC&UL 250 A 1000V |

### Ordering

|                        |                          |
|------------------------|--------------------------|
| Minimum Order Quantity | 1 piece                  |
| Customs Tariff Number  | 85363090                 |
| Last Ordering Date     | 2021-11-30 All Countries |
| Country of Origin      | Finland (FI)             |

### Popular Downloads

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| Data Sheet, Technical Information | 1SCC301022C0201                                            |
| Instructions and Manuals          | 1SCC301081M0206                                            |
| Mechanical Drawings               | OTDC100_245US20S.igs<br>1SCC307387F0001<br>1SCC307388F0001 |
| Wiring Diagram                    | 1SCC301029K0201                                            |

## Dimensions

|                               |                  |
|-------------------------------|------------------|
| Product Frame Size            | S                |
| Product Net Width             | 146 mm<br>5.7 in |
| Product Net Height            | 190 mm<br>7.5 in |
| Product Net Depth /<br>Length | 198 mm<br>7.8 in |
| Product Net Weight            | 1.6 kg<br>3.5 lb |

## Technical

|                                                       |                                                                                               |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Connection Configuration                              | Single circuit 2a, 2b                                                                         |
| Rated Operational Current<br>DC-21B ( $I_e$ )         | (1000 V) 250 A                                                                                |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | 250 A                                                                                         |
| Conventional Thermal<br>Current ( $I_{the}$ )         | Fully Enclosed 250 A                                                                          |
| Rated Impulse Withstand<br>Voltage ( $U_{imp}$ )      | 12 kV                                                                                         |
| Rated Insulation Voltage<br>( $U_i$ )                 | 1500 V                                                                                        |
| Rated Operational Voltage                             | 1000 V                                                                                        |
| Rated Short-Circuit<br>Making Capacity ( $I_{cm}$ )   | (1000 V DC) 10 kA                                                                             |
| Rated Short-time<br>Withstand Current ( $I_{cw}$ )    | (1000 V DC) 10 kA<br>for 1 s 5 kA<br>for 0.1 s 10 kA                                          |
| Protection Type                                       | Circuit breaker                                                                               |
| Power Loss                                            | at Rated Operating Conditions per Pole 9.5 W                                                  |
| Pollution Degree                                      | 3                                                                                             |
| Handle Type                                           | Handle and shaft not included                                                                 |
| Shaft Diameter                                        | 6 mm<br>0.24 in                                                                               |
| Switches Operating<br>Mechanism                       | Mechanism at the End of the Switch<br>20 (Right Side)                                         |
| Position of Line Terminals                            | Bottom In - Bottom Out                                                                        |
| Operating Mode                                        | Side Operated                                                                                 |
| Standards                                             | UL98B and IEC 60947-1, -3                                                                     |
| Special Functions                                     | US single-wire break                                                                          |
| Mounting Type                                         | Base mounting                                                                                 |
| Number of Circuits                                    | 1                                                                                             |
| Number of Poles                                       | 2                                                                                             |
| Degree of Protection                                  | Front IP20                                                                                    |
| Terminal Type                                         | Lug terminals                                                                                 |
| Terminal Width                                        | 19.5 mm<br>0.77 in                                                                            |
| Tightening Torque                                     | Cable Lug 15...22 N·m                                                                         |
| Utilization                                           | Photovoltaic                                                                                  |
| Utilization Category                                  | Switching of resistive loads, including moderate overloads - occasional<br>actuation (DC-21B) |

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| Maximum Operating Voltage UL/CSA | 1000 V DC                                           |
| Ampere Rating UL/CSA             | 1000VDC 250 A                                       |
| Tightening Torque UL/CSA         | Cable Lug 10...12 N·m<br>Cable Lug 133...195 lbf·in |

## Environmental

|             |                                   |
|-------------|-----------------------------------|
| RoHS Status | Following EU Directive 2011/65/EU |
|-------------|-----------------------------------|

## Certificates and Declarations (Document Number)

|                                |                     |
|--------------------------------|---------------------|
| CCC Certificate                | CQC2013010302611671 |
| Declaration of Conformity - CE | 1SCC301201D2703     |
| DNV GL Certificate             | 1SCC301231D0201     |
| Instructions and Manuals       | 1SCC301081M0206     |
| RoHS Information               | 1SCC301201D2703     |

## Container Information

|                                |                  |
|--------------------------------|------------------|
| Package Level 1 Units          | box 1 piece      |
| Package Level 1 Width          | 130 mm<br>5.1 in |
| Package Level 1 Depth / Length | 170 mm<br>6.7 in |
| Package Level 1 Height         | 212 mm<br>8.3 in |
| Package Level 1 Gross Weight   | 1.7 kg<br>3.8 lb |
| Package Level 1 EAN            | 6417019787176    |

## Classifications

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| Object Classification Code | Q                                                          |
| ETIM 5                     | EC000216 - Switch disconnectors                            |
| ETIM 6                     | EC000216 - Switch disconnectors                            |
| ETIM 7                     | EC000216 - Switch disconnectors                            |
| UNSPSC                     | 39122233                                                   |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm) |

## Categories

Low Voltage Products and Systems → Switches → DC Switch-Disconnectors

