

PRODUCT-DETAILS

# OTDC1000US22

## OTDC1000US22 PV Disconnect Switch



### General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | OTDC1000US22   |
| Product ID            | 1SCA143714R1001  |
| EAN                   | 6417019714851  |
| Catalog Description   | OTDC1000US22 PV Disconnect Switch  |
| Long Description      | OTDC1000US22 PV Disconnect Switch, Terminal bolt kit included, Handle and shaft need to be ordered separately, Base mounting, US single-wire break, UL 1000 VDC 930 A, IEC 1000 VDC 1250 A |

### Ordering

|                        |                          |
|------------------------|--------------------------|
| Minimum Order Quantity | 1 piece                  |
| Customs Tariff Number  | 85363090                 |
| Last Ordering Date     | 2021-05-31 All Countries |
| Country of Origin      | Finland (FI)             |

### Popular Downloads

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 1SCC301022C0201                    |
| Instructions and Manuals          | 1SCC301095M0202                    |
| Mechanical Drawings               | OTDC800-1600_22_sc-6ab_palikka.igs |

1SCC307497F0202

1SCC307498F0202

Wiring Diagram

1SCC301044K0201

## Dimensions

|                               |                     |
|-------------------------------|---------------------|
| Product Frame Size            | L                   |
| Product Net Width             | 414.5 mm<br>16.3 in |
| Product Net Height            | 372 mm<br>14.6 in   |
| Product Net Depth /<br>Length | 145.9 mm<br>5.7 in  |
| Product Net Weight            | 25.5 kg<br>56.2 lb  |

## Technical

|   |   |
|---|---|
| Connection Configuration                              | Single circuit 6m                                     |
| Rated Operational Current<br>DC-21B ( $I_g$ )         | (1000 V) 1600 A                                       |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | 1600 A  |
| Conventional Thermal<br>Current ( $I_{the}$ )         | Fully Enclosed 1250 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 10 kA                    |
| Protection Type                                       | Circuit breaker                                       |
| Power Loss  | at Rated Operating Conditions per Pole 35 W           |
| Pollution Degree                                      | 3   |
| Handle Type   | Handle and shaft not included                         |
| Shaft Diameter  | 12 mm<br>0.47 in                                      |
| Switches Operating<br>Mechanism                       | Mechanism Between the Poles<br>22 (Between the Poles) |
| Position of Line Terminals                            | Bottom In - Bottom Out                                |
| Operating Mode  | Front Operated  |
| Standards   | UL98B and IEC 60947-1, -3                             |
| Special Functions                                     | US single-wire break                                  |
| Mounting Type   | Base mounting   |
| Number of Circuits                                    | 2   |
| Number of Poles                                       | 4   |
| Degree of Protection                                  | Front IP20  |
| Terminal Type   | Lug terminals   |

|                      |  |
|----------------------|--|
| Terminal Width       | 50 mm<br>1.97 in   |
| Tightening Torque    | Cable Lug 50...75 N·m  |
| Utilization          | Photovoltaic   |
| Utilization Category | Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B) |

## Technical UL/CSA

|                                  |   |
|----------------------------------|---|
| Maximum Operating Voltage UL/CSA | 1000 V DC   |
| Ampere Rating UL/CSA             | 1000VDC 930 A                                       |
| Tightening Torque UL/CSA         | Cable Lug 50...75 N·m<br>Cable Lug 443...664 lbf·in |

## Environmental

|                           |                                   |
|---------------------------|-----------------------------------|
| RoHS Status               | Following EU Directive 2011/65/EU |
| Environmental Information | 1SCC301234D0201                   |

## Certificates and Declarations (Document Number)

|                                |                     |
|--------------------------------|---------------------|
| CCC Certificate                | CQC2017010302965012 |
| Declaration of Conformity - CE | 1SCC301208D2702     |
| DNV GL Certificate             | 1SCC301231D0201     |
| Environmental Information      | 1SCC301234D0201     |
| Instructions and Manuals       | 1SCC301095M0202     |
| RoHS Information               | 1SCC301208D2702     |

## Container Information

|                                |                    |
|--------------------------------|--------------------|
| Package Level 1 Units          | box 1 piece        |
| Package Level 1 Width          | 400 mm<br>15.7 in  |
| Package Level 1 Depth / Length | 435 mm<br>17.1 in  |
| Package Level 1 Height         | 170 mm<br>6.7 in   |
| Package Level 1 Gross Weight   | 26.8 kg<br>59.1 lb |
| Package Level 1 EAN            | 6417019714851      |

## Classifications

|                            |                                |
|----------------------------|--------------------------------|
| Object Classification Code | Q                              |
| ETIM 5                     | EC000216 - Switch disconnecter |
| ETIM 6                     | EC000216 - Switch disconnecter |
| ETIM 7                     | EC000216 - Switch disconnecter |
| UNSPSC                     | 39122233                       |

WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

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## Categories

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

