

## PRODUCT-DETAILS

# OTDC200USV22K

## OTDC200USV22K PV Disconnect Switch



### General Information

|                       |                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| Extended Product Type | OTDC200USV22K                                                                                                   |
| Product ID            | 1SCA149098R1001                                                                                                 |
| EAN                   | 6417019787046                                                                                                   |
| Catalog Description   | OTDC200USV22K PV Disconnect Switch                                                                              |
| Long Description      | OTDC200USV22K PV Disconnect Switch, Direct mounted handle, Base mounting, IEC&UL<br>200 A 1000V and 200 A 1500V |

### Ordering

|                        |                          |
|------------------------|--------------------------|
| Minimum Order Quantity | 1 piece                  |
| Customs Tariff Number  | 85353010                 |
| Last Ordering Date     | 2021-11-30 All Countries |
| Country of Origin      | Finland (FI)             |

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SCC301022C0201 |
| Instructions and Manuals          | 1SCC301081M0206 |
| Wiring Diagram                    | 1SCC301038K0201 |

## Dimensions

|                               |                  |
|-------------------------------|------------------|
| Product Frame Size            | S                |
| Product Net Width             | 185 mm<br>7.3 in |
| Product Net Height            | 210 mm<br>8.3 in |
| Product Net Depth /<br>Length | 110 mm<br>4.3 in |
| Product Net Weight            | 2.6 kg<br>5.8 lb |

## Technical

|                                                       |                                                       |
|-------------------------------------------------------|-------------------------------------------------------|
| Connection Configuration                              | Single circuit 6m                                     |
| Rated Operational Current<br>DC-21B ( $I_e$ )         | (1500 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                             | 1500 V                                                |
| Rated Short-Circuit<br>Making Capacity ( $I_{cm}$ )   | (1500 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 Color                                          | Black                                                 |
| Handle Length                                         | 65 mm<br>2.6 in                                       |
| Handle Type                                           | Direct mounted handle                                 |
| Shaft Diameter                                        | 6 mm<br>0.24 in                                       |
| Shaft Length                                          | 105 mm<br>4.1 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                                     | 1500 V pre-connected, US single-wire break            |
| Mounting Type                                         | Base mounting                                         |
| Number of Circuits                                    | 1                                                     |
| Number of Poles                                       | 4                                                     |

|                      |                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------|
| 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 actuation (DC-21B) |

## Technical UL/CSA

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| Maximum Operating Voltage UL/CSA | 1500 V DC                                           |
| Ampere Rating UL/CSA             | 1500VDC 200 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                       |
| CSA Certificate                | CSA Letter_of_Attestation OTDC100-200.pdf |
| Declaration of Conformity - CE | 1SCC301201D2703                           |
| DNV GL Certificate             | 1SCC301231D0201                           |
| Instructions and Manuals       | 1SCC301081M0206                           |
| RoHS Information               | 1SCC301201D2703                           |
| UL Certificate                 | UL certificate OTDC100-200.pdf            |

## Container Information

|                                |                   |
|--------------------------------|-------------------|
| Package Level 1 Units          | box 1 piece       |
| Package Level 1 Width          | 220 mm<br>8.7 in  |
| Package Level 1 Depth / Length | 260 mm<br>10.2 in |
| Package Level 1 Height         | 155 mm<br>6.1 in  |
| Package Level 1 Gross Weight   | 3 kg<br>6.6 lb    |
| Package Level 1 EAN            | 6417019787046     |

## Classifications

|                            |                                |
|----------------------------|--------------------------------|
| Object Classification Code | Q                              |
| ETIM 5                     | EC000216 - Switch disconnecter |

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

Categories

Low Voltage Products and Systems → Industries → Solar power → 1500V DC  
Low Voltage Products and Systems → Switches → DC Switch-Disconnectors

