

## PRODUCT-DETAILS

# OTDC250E02K

## OTDC250E02K DC Switch-disconnector



### General Information

|                       |                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | OTDC250E02K                                                                                                                 |
| Product ID            | 1SCA127741R1001                                                                                                             |
| EAN                   | 6417019576541                                                                                                               |
| Catalog Description   | OTDC250E02K DC Switch-disconnector                                                                                          |
| Long Description      | OTDC250E02K DC Switch-disconnector, Direct mounted handle and terminal bolt kit included, Base mounting, IEC 1000 VDC 250 A |

### 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 |

## Dimensions

|                            |                   |
|----------------------------|-------------------|
| Product Frame Size         | S                 |
| Product Net Width          | 113 mm<br>4.4 in  |
| Product Net Height         | 262 mm<br>10.3 in |
| Product Net Depth / Length | 107 mm            |
| Product Net Weight         | 1.4 kg<br>3.2 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 |
| 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 at the End of the Switch<br>02 (Left Side) |
| Position of Line Terminals                            | Top In - Bottom Out<br>Bottom In - Top Out           |
| Operating Mode                                        | Front Operated                                       |
| Standards                                             | IEC 60947-1, -3                                      |
| Special Functions                                     | No                                                   |
| 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 actuation (DC-21B) |

## Environmental

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

## 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                           |
| Environmental Information      | NA                                        |
| 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          | 210 mm<br>8.3 in |
| Package Level 1 Depth / Length | 210 mm<br>8.3 in |
| Package Level 1 Height         | 150 mm<br>5.9 in |
| Package Level 1 Gross Weight   | 1.5 kg<br>3.4 lb |
| Package Level 1 EAN            | 6417019576541    |

## Classifications

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

