

PRODUCT-DETAILS

## OTDC600UFS11K OTDC600UFS11K PV Disconnect Switch



| General Information   |  |
|-----------------------|--|
| Extended Product Type | OTDC600UFS11K  |
| Product ID            | 1SCA158380R1001  |
| EAN                   | 6417019874814  |
| Catalog Description   | OTDC600UFS11K PV Disconnect Switch   |
| Long Description      | A fully optimized two-pole DC switch-disconnector for 1000V utility-scale photovoltaic power plants covering 315-630A current range. The new design offers both a size reduction and an increase in efficiency and performance.  The two-pole 1000V DC Switch helps manufacturers improve system efficiency. The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters.  Main characteristics for this particular OTDC type:  Disconnect single PV circuit, Approved according to UL98B and IEC 60947-1,-3, Factory fitted connection bar kits |

| 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

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| Instructions and Manuals | 1SCC301099M0201<br>9AKK107492A6191       |
|--------------------------|--|
| Mechanical Drawings      | OTDC600UFSV11K_stp<br>OTDC600UFSV11K_igs |
| Wiring Diagram           | 1SCC301026K0201                          |

| Dimensions                 |                     |
|----------------------------|---------------------|
| Product Frame Size         | М                   |
| Product Net Width          | 185 mm<br>7.3 in    |
| Product Net Height         | 335.5 mm<br>13.2 in |
| Product Net Depth / Length | 169.5 mm<br>6.7 in  |
| Product Net Weight         | 4.9 kg<br>10.9 lb   |

| Technical   |   |
|---|---|
| Connection Configuration                                    | Single circuit 1a                                     |
| Rated Operational Current DC-21B (I <sub>e</sub> )          | (1000 V) 630 A  |
| Rated Operational Current<br>DC-22B                         | (1000 V) 400 A  |
| Rated Operational Current<br>DC-PV1                         | (1000 V) 500 A  |
| Rated Operational Current<br>DC-PV2                         | (1000 V) 500 A  |
| Conventional Free-air<br>Thermal Current (I <sub>th</sub> ) | 630 A   |
| Conventional Thermal Current (I <sub>the</sub> )            | Fully Enclosed 630 A                                  |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )         | 12 kV   |
| Rated Insulation Voltage $(U_i)$                            | 1500 V  |
| Rated Operational Voltage                                   | 1000 V  |
| Rated Short-Circuit Making Capacity (I <sub>cm</sub> )      | (1000 V DC) 10 kA                                     |
| Rated Short-time<br>Withstand Current (I <sub>cw</sub> )    | (1500 V DC) 10 kA<br>for 1 s 10 kA                    |
| Protection Type   | Circuit breaker                                       |
| Power Loss  | at Rated Operating Conditions per Pole 32 W           |
| Pollution Degree  | 3   |
| Handle Color  | Black   |
| Handle Length   | 95 mm<br>3.7 in                                       |
| Handle Type   | Direct mounted handle                                 |
| Shaft Diameter  | 12 mm<br>0.47 in                                      |
| Shaft Length  | 160 mm<br>6.3 in                                      |
| Switches Operating<br>Mechanism                             | Mechanism Between the Poles<br>11 (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                                  |

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| Mounting Type         | Base mounting  |
|-----------------------|--|
| Number of Circuits    | 1  |
| Number of Poles       | 2  |
| Degree of Protection  | Front IP20   |
| Terminal Type         | Lug terminals  |
| Terminal Width        | 30 mm<br>1.2 in  |
| Tightening Torque     | Cable Lug 3040 N·m   |
| Mechanical Durability | 10000 cycle  |
| Utilization           | Photovoltaic   |
| Utilization Category  | Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B)   |
|                       | Switching of mixed resistive and inductive loads, including moderate overloads (i.e. shunt motors) - occasional actuation (DC-22B) Switching of single PV string(s) without reverse and overcurrents (DC-PV1) Switching of several PV string(s) with reverse and overcurrents (DC-PV2) |

| Voltage UL/CSA |                      |               |
|----------------|----------------------|---------------|
|                | Ampere Rating UL/CSA | 1000VDC 600 A |
|                |                      | 1000 V DC     |

Tightening Torque Cable Lug 30...44 N⋅m UL/CSA Cable Lug 266...390 lbf⋅in

## Environmental

RoHS Status Following EU Directive 2011/65/EU

| Certificates and Declarations (Document Num | ber)                               |
|---|------------------------------------|
| CCC Certificate                             | CQC2019010302206498                |
| Declaration of Conformity - CE              | 1SCC301227D2701                    |
| DNV GL Certificate                          | 1SCC301231D0201                    |
| Instructions and Manuals                    | 1SCC301099M0201<br>9AKK107492A6191 |
| RoHS Information                            | 1SCC301227D2701                    |
| UL Certificate                              | UL certificate OTDC250-1000UF      |

| Container Information           |                   |
|---------------------------------|-------------------|
| Package Level 1 Units           | box 1 piece       |
| Package Level 1 Width           | 310 mm<br>12.2 in |
| Package Level 1 Depth / Length  | 410 mm<br>16.1 in |
| Package Level 1 Height          | 200 mm<br>7.9 in  |
| Package Level 1 Gross<br>Weight | 5.4 kg<br>11.9 lb |
| Package Level 1 EAN             | 6417019874814     |

| Classifications            |   |
|----------------------------|---|
| Object Classification Code | Q |

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

## Categories

Low Voltage Products and Systems  $\rightarrow$  Switches  $\rightarrow$  DC Switch-Disconnectors

