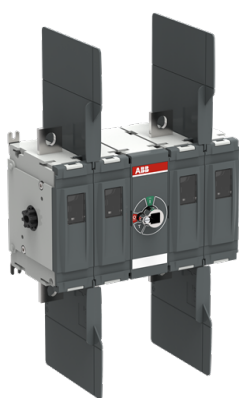


PRODUCT-DETAILS

# OTDC630FV22

## OTDC630FV22 DC Switch-disconnector




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### General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | OTDC630FV22  |
| Product ID            | 1SCA158307R1001  |
| EAN                   | 6417019874128  |
| Catalog Description   | OTDC630FV22 DC Switch-disconnector   |
| Long Description      | <p>A fully optimized four-pole DC switch-disconnector for 1500V 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 to help manufacturers adapt to the industry's rapid adoption of 1500V DC solutions.</p> <p>The four-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch losses. The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters.</p> <p>Main characteristics of this particular OTDC type:<br/>Disconnect double PV circuit, Approved according to IEC 60947-1, -3</p> |

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### Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85353010 |

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### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SCC301022C0201 |
|-----------------------------------|-----------------|

|                          |  |
|--------------------------|--|
| Instructions and Manuals | 1SCC301099M0201<br>9AKK107492A6191   |
| Mechanical Drawings      | OTDC315-630FV22_stp<br>OTDC315-630FV22_igs<br>1SCC307664F0001<br>1SCC307665F0001 |
| Wiring Diagram           | 1SCC301035K0201  |

## Dimensions

|                               |                     |
|-------------------------------|---------------------|
| Product Frame Size            | M                   |
| Product Net Width             | 255.5 mm<br>10.1 in |
| Product Net Height            | 211 mm<br>8.3 in    |
| Product Net Depth /<br>Length | 135 mm<br>5.3 in    |
| Product Net Weight            | 7.7 kg<br>16.9 lb   |

## Technical

|   |   |
|---|---|
| Connection Configuration                              | Double circuit 4a, 4c                                 |
| Rated Operational Current<br>DC-21B ( $I_e$ )         | (1500 V) 630 A  |
| Rated Operational Current<br>DC-22B                   | (1500 V) 400 A  |
| Rated Operational Current<br>DC-PV1                   | (1500 V) 500 A  |
| Rated Operational Current<br>DC-PV2                   | (1500 V) 500 A  |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | 630 A   |
| Conventional Thermal<br>Current ( $I_{the}$ )         | Fully Enclosed 630 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 ( $I_{cw}$ )    | (1500 V DC) 10 kA<br>for 1 s 10 kA                    |
| Power Loss  | at Rated Operating Conditions per Pole 32 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                            | 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    | 2                     |
| Number of Poles       | 4                     |
| Degree of Protection  | Front IP20            |
| Terminal Type         | Lug terminals         |
| Terminal Width        | 30 mm<br>1.2 in       |
| Tightening Torque     | Cable Lug 30...40 N·m |
| Mechanical Durability | 10000 cycle           |

## Environmental

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

## Certificates and Declarations (Document Number)

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Declaration of Conformity<br>- CE | 1SCC301227D2701                    |
| DNV GL Certificate                | 1SCC301231D0201                    |
| Instructions and Manuals          | 1SCC301099M0201<br>9AKK107492A6191 |
| RoHS Information                  | 1SCC301206D0205                    |

## Container Information

|                                   |                   |
|-----------------------------------|-------------------|
| Package Level 1 Units             | box 1 piece       |
| Package Level 1 Width             | 270 mm<br>10.6 in |
| Package Level 1 Depth /<br>Length | 310 mm<br>12.2 in |
| Package Level 1 Height            | 200 mm<br>7.9 in  |
| Package Level 1 Gross<br>Weight   | 8 kg<br>17.5 lb   |
| Package Level 1 EAN               | 6417019874128     |

## 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

