

PRODUCT-DETAILS

OTDC600UFV02

OTDC600UFV02 PV Disconnect Switch



General Information

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| Extended Product Type | OTDC600UFV02 |
| Product ID | 1SCA158237R1001 |
| EAN | 6417019873428 |
| Catalog Description | OTDC600UFV02 PV Disconnect Switch |

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| Long Description | <p>A fully optimized two-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 two-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch losses by up to 35 percent. Measuring just 150mm wide and 122mm high, the OTDC range of 1500V DC switches is also up to 30 percent smaller than conventional solutions.</p> <p>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 for this particular OTDC type: Disconnect single PV circuit, Approved according to UL98B and IEC 60947-1,-3</p> |
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Ordering

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

Popular Downloads

| | |
|-----------------------------------|--|
| Data Sheet, Technical Information | 1SCC301022C0201 |
| Instructions and Manuals | 1SCC301099M0201 9AKK107492A6191 |
| Mechanical Drawings | OTDC250-600UFV02_stp OTDC250-600UFV02_igs 1SCC307662F0001 1SCC307663F0001 |
| Wiring Diagram | 1SCC301030K0201 |

Dimensions

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| Product Frame Size | M |
| Product Net Width | 156.5 mm 6.2 in |
| Product Net Height | 211 mm 8.3 in |
| Product Net Depth / Length | 135 mm 5.3 in |
| Product Net Weight | 3.6 kg 7.9 lb |

Technical

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| Connection Configuration | Single circuit 2a, 2b |
| Rated Operational Current DC-21B (I_e) | (1500 V) 630 A |
| Rated Operational Current DC-22B | (1500 V) 400 A |
| Rated Operational Current DC-PV1 | (1500 V) 500 A |
| Rated Operational Current DC-PV2 | (1500 V) 500 A |
| Conventional Free-air Thermal Current (I_{th}) | 630 A |
| Conventional Thermal Current (I_{the}) | Fully Enclosed 630 A |
| Rated Impulse Withstand Voltage (U_{imp}) | 12 kV |
| Rated Insulation Voltage (U_i) | 1500 V |
| Rated Operational Voltage | 1500 V |
| Rated Short-Circuit Making Capacity (I_{cm}) | (1500 V DC) 10 kA |
| Rated Short-time Withstand Current (I_{cw}) | (1500 V DC) 10 kA for 1 s 10 kA |
| Protection Type | Circuit breaker |
| Power Loss | at Rated Operating Conditions per Pole 32 W |
| Pollution Degree | 3 |
| Handle Type | Handle and shaft not included |
| Shaft Diameter | 12 mm 0.47 in |
| Switches Operating | Mechanism at the End of the Switch |

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| Mechanism | 02 (Left Side) |
| Position of Line Terminals | Top In - Bottom Out Bottom In - Top Out |
| Operating Mode | Front Operated |
| Standards | UL98B and 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 | 30 mm 1.2 in |
| Tightening Torque | Cable Lug 30...40 N·m |
| Mechanical Durability | 10000 cycle |

Technical UL/CSA

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|----------------------------------|---|
| Maximum Operating Voltage UL/CSA | 1500 V DC |
| Ampere Rating UL/CSA | 1500VDC 600 A |
| Tightening Torque UL/CSA | Cable Lug 30...44 N·m Cable Lug 266...390 lbf·in |

Environmental

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| RoHS Status | Following EU Directive 2011/65/EU |
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Certificates and Declarations (Document Number)

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

Container Information

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| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 220 mm 8.7 in |
| Package Level 1 Depth / Length | 250 mm 9.8 in |
| Package Level 1 Height | 210 mm 8.3 in |
| Package Level 1 Gross Weight | 3.8 kg 8.4 lb |
| Package Level 1 EAN | 6417019873428 |

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) |

Categories

Low Voltage Products and Systems → Industries → Solar power → 1500V DC

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

