



PRODUCT-DETAILS

OTDC25U2

OTDC25U2 PV Disconnect Switch



| General Information | |
|-----------------------|---|
| Extended Product Type | OTDC25U2 |
| Product ID | 1SCA134375R1001 |
| EAN | 6417019631776 |
| Catalog Description | OTDC25U2 PV Disconnect Switch |
| Long Description | OTDC25U2 PV Disconnect Switch, Terminal bolt kit included, Handle and shaft need to be ordered separately, Base mounting, UL 600 VDC 25 A single circuit, IEC 660 VDC 25 A single circuit, IEC 1000 VDC 16 A single circuit |

| ABB EcoSolutions | |
|--|---|
| ABB Site Meeting Group Waste To Landfill Target | UL 2799 Zero Waste To Landfill Validation available |

| Material Compliance | |
|---|-----------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 1SCC301240D0201 |

| | |
|-------------------------------------|--|
| RoHS Information | 1SCC301239D0201 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA | 1SCC301321D0201 |

Popular Downloads

| | |
|-----------------------------------|--|
| Data Sheet, Technical Information | 1SCC301022C0201 |
| Instructions and Manuals | 1SCC301086M0204 |
| Mechanical Drawings | otdc16-32u-us2.igs 1SCC307479F0001 1SCC307480F0001 |

Environmental

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|----------------------|------------|
| Degree of Protection | Front IP20 |
| Pollution Degree | 3 |

Ordering

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|------------------------|--------------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85363030 |
| Country of Origin | Estonia (EE) |

Dimensions

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|----------------------------|-------------------|
| Product Frame Size | XS |
| Product Net Width | 54.5 mm 2.1 in |
| Product Net Height | 54.8 mm 2.2 in |
| Product Net Depth / Length | 64 mm 2.5 in |
| Product Net Weight | 0.2 kg 0.4 lb |

Container Information

| | |
|--------------------------------|------------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 100 mm 3.9 in |
| Package Level 1 Depth / Length | 64 mm 2.5 in |
| Package Level 1 Height | 100 mm 3.9 in |
| Package Level 1 Gross Weight | 0.2 kg 0.4 lb |
| Package Level 1 EAN | 6417019631776 |

Technical

| | |
|--|--|
| Cable Cross-Section | 2.5 ... 16 mm ² 12 ... 6 AWG |
| Conventional Free-air Thermal Current (I _{th}) | Θ = 40 °C 50 A |
| Conventional Thermal Current (I _{the}) | Fully Enclosed 40 A |

| | |
|---|---|
| Degree of Protection | Front IP20 |
| Handle Type | Handle and shaft not included |
| Mounting Type | Base mounting, DIN-rail mounting |
| Number of Circuits | 1 |
| Number of Poles | 2P |
| Operating Mode | Front Operated |
| Pollution Degree | 3 |
| Position of Line Terminals | Top In - Bottom Out Bottom In - Top Out |
| Positive Opening Operation Torque (Direct Opening Action) | 0.4 ... 0.8 N·m |
| Power Loss | at Rated Operating Conditions per Pole 0.2 W |
| Protection Type | UL508i RK5 fuselink max. 70A, IEC60947 gPV fuselink max. 80A |
| Rated Conditional Short- Circuit Current (I_{nc}) | (1000 V DC) 10 kA |
| Rated Impulse Withstand Voltage (U_{imp}) | 8 kV |
| Rated Insulation Voltage (U_i) | 1000 V |
| Rated Operational Current DC-21B (I_{θ}) | (660 V) 25 A (1000 V) 16 A |
| Rated Operational Voltage | 1000 V |
| Rated Short-Circuit Making Capacity (I_{cm}) | (1000 V DC) 1 kA |
| Rated Short-time Withstand Current Low Voltage (I_{cw}) | (1000 V DC) 1 kA for 1 s 1 kA |
| Recommended Screw Driver | Main Circuit Torx |
| Shaft Diameter | 6 mm 0.24 in |
| Special Functions | No |
| Standards | UL508i and IEC 60947-1, -3 |
| Switches Operating Mechanism | Mechanism on Top of the Switch |
| Terminal Type | Screw Terminals |
| Tightening Torque | Main Circuit 1.2 ... 1.4 N·m |
| Utilization | Photovoltaic |
| Utilization Category | Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B) |
| Wire Stripping Length | Main Circuit 60 ... 11 mm |

Technical UL/CSA

| | |
|------------------------------|------------------------------|
| Maximum Operating Voltage | 600Vdc, UL 508i |
| Ampere Rating | 25A, 600Vdc, UL508i |
| Wire Stripping Length | Main Circuit 60 ... 11 mm |
| Recommended Screw Driver | Main Circuit Torx |
| Tightening Torque | Main Circuit 1.2 ... 1.4 N·m |

Certificates and Declarations

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|-------------------------------------|---------------------|
| CCC Certificate | CQC2012010302579872 |
| Declaration of Conformity - CE | 1SCC301192D2704 |
| Declaration of Conformity - UKCA | 1SCC301313D0201 |
| DNV GL Certificate | 1SCC301231D0201 |

External Classifications and Standards

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|------------------------------------|--|
| Object Classification Code | Q |
| ETIM 8 | EC000216 - Switch disconnecter |
| ETIM 9 | EC000216 - Switch disconnecter (low voltage) |
| UNSPSC | 39122233 |
| IDEA Granular Category Code (IGCC) | 5293 >> Switch disconnecter |
| eClass | V11.1 : 27371403 |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Categories

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

