



PRODUCT-DETAILS

OTDC250GV11-ESS

OTDC250GV11-ESS DC Switch-disconnector



| General Information | |
|-----------------------|--|
| Extended Product Type | OTDC250GV11-ESS |
| Product ID | 1SCA161997R1001 |
| EAN | 6417019920849 |
| Catalog Description | OTDC250GV11-ESS DC Switch-disconnector |
| Long Description | <p>A fully optimized two-pole DC switch-disconnector for 1500V 100-250A 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 70 percent. Compact OTDC 100...250A range of 1500V DC switches is also up to 80 percent smaller than conventional solutions. The compact size makes it possible for manufacturers to reduce the enclosure size. ESS types are designed for higher short-circuit values with already done fuse coordination.</p> |

| Circular Value | |
|---|---|
| ABB EcoSolutions | Yes |
| Circular Design Principles Recyclability Rate | Design for Closing Resource Loops - Standard EN45555 - 50,7 % |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| End of Life Instructions | 1SCC301113M0201 |

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| Environmental Product Declaration - EPD | 1SCC301249D0201 |
| Group Waste to Landfill Target | UL 2799 Zero Waste To Landfill Validation available |
| Improved Resource Efficiency for Customers | Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line |
| REACH Declaration | 1SCC301240D0201 |
| RoHS Information | 1SCC301239D0201 |
| Toxic Substances Control Act - TSCA | 1SCC301321D0201 |

Eco Transparency

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|---|-----------------|
| Environmental Product Declaration - EPD | 1SCC301249D0201 |
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Ordering

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| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85353010 |
| Country of Origin | Finland (FI) |

Popular Downloads

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|---|---|
| Data Sheet, Technical Information | 1SCC301022C0201 |
| Instructions and Manuals | 1SCC301106M0201 9AKK108467A9503 |
| Mechanical Drawings | OTDC100-250_G_11_STP 1SCC307811F0201 |
| Environmental Product Declaration - EPD | 1SCC301249D0201 |
| End of Life Instructions | 1SCC301113M0201 |

Dimensions

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| Product Frame Size | S2.0 |
| Product Net Width | 146 mm 5.7 in |
| Product Net Height | 165 mm 6.5 in |
| Product Net Depth / Length | 120 mm 4.7 in |
| Product Net Weight | 1.7 kg 3.7 lb |

Technical

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| Connection Configuration | Single circuit 2a, 2b |
| Rated Operational Current DC-21B (I_g) | (1500 V) 250 A |
| Rated Operational Current DC-PV1 | (1500 V) 200 A |
| Rated Operational Current DC-PV2 | (1500 V) 100 A |
| Conventional Free-air Thermal Current (I_{th}) | $\Theta = 40$ °C 250 A |
| Conventional Thermal Current (I_{the}) | Fully Enclosed 250 A |

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|---|--|
| 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 Low Voltage (I_{cw}) | (1500 V DC) 10 kA for 0.1 s 10 kA |
| Rated Conditional Short-Circuit Current (I_{nc}) | (1500 V DC) 50 kA |
| Protection Type | Circuit breaker or a fuse selected from the fuse coordination table. For the coordination table (9AKK108467A9503) please see the section Instructions and Manuals. |
| Power Loss | at Rated Operating Conditions per Pole 7.7 ... 8.4 W |
| Pollution Degree | 2 |
| Handle Type | Handle and shaft not included |
| Positive Opening Operation Torque (Direct Opening Action) | 6 ... 9 N·m |
| Shaft Diameter | 6 mm 0.24 in |
| Switches Operating Mechanism | Mechanism Between the Poles 11 (Between the Poles) |
| Position of Line Terminals | Top In - Bottom Out 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 0.77 in |
| Mechanical Durability | 10000 cycle |
| Utilization | Energy Storage System (ESS) |
| Utilization Category | Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B) Switching of single PV string(s) without reverse and overcurrents (DC-PV1) Switching of several PV string(s) with reverse and overcurrents (DC-PV2) |

Environmental

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

Certificates and Declarations

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|----------------------------------|-----------------|
| Declaration of Conformity - CE | 1SCC301242D2701 |
| Declaration of Conformity - UKCA | 1SCC301313D0201 |
| REACH Declaration | 1SCC301240D0201 |

Container Information

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| Package Level 1 Units | box 1 piece |
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| Package Level 1 Width | 170 mm 6.7 in |
| Package Level 1 Depth / Length | 190 mm 7.5 in |
| Package Level 1 Height | 145 mm 5.7 in |
| Package Level 1 Gross Weight | 1.8 kg 4 lb |
| Package Level 1 EAN | 6417019920849 |

Classifications

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| Object Classification Code | Q |
| ETIM 7 | EC000216 - Switch disconnecter |
| ETIM 8 | EC000216 - Switch disconnecter |
| ETIM 9 | EC000216 - Switch disconnecter (low voltage) |
| 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

