



PRODUCT-DETAILS

OTDC250GV02S

OTDC250GV02S DC Switch-disconnector



General Information

Extended Product Type	OTDC250GV02S
Product ID	1SCA161995R1001
EAN	6417019920825
Catalog Description	OTDC250GV02S DC Switch-disconnector
Long Description	A fully optimized side operated 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.

ABB EcoSolutions

ABB EcoSolutions	Yes
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Circular Value

Circular Design Principles	Design for Closing Resource Loops - Standard EN45555 - 50,7 %
Recyclability Rate	
End of Life Instructions	1SCC301113M0201
Group Waste to Landfill	UL 2799 Zero Waste To Landfill Validation available

Target

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
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Eco Transparency

Environmental Product Declaration - EPD	1SCC301249D0201
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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

Ordering

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

Popular Downloads

Data Sheet, Technical Information	1SCC301022C0201
Instructions and Manuals	1SCC301106M0201
Mechanical Drawings	OTDC100-250_G_02S_STP 1SCC307809F0201
Environmental Product Declaration - EPD	1SCC301249D0201
End of Life Instructions	1SCC301113M0201

Dimensions

Product Frame Size	S2.0
Product Net Width	161 mm 6.3 in
Product Net Height	165 mm 6.5 in
Product Net Depth / Length	120 mm 4.7 in
Product Net Weight	1.8 kg 4.1 lb

Technical

Connection Configuration	Single circuit 2a, 2b
Rated Operational Current DC-21B (I_{θ})	(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})	$\Theta = 40\text{ °C } 250\text{ A}$
Conventional Thermal Current (I_{thE})	Fully Enclosed 250 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 Low Voltage (I_{cw})	(1500 V DC) 10 kA for 1 s 10 kA
Protection Type	Circuit breaker
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 at the End of the Switch 02 (Left Side)
Position of Line Terminals	Top In - Bottom Out Bottom In - Top Out
Operating Mode	Side 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	Photovoltaic
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)

Certificates and Declarations

Declaration of Conformity - CE	1SCC301242D2701
Declaration of Conformity - UKCA	1SCC301313D0201

Container Information

Package Level 1 Units	box 1 piece
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	2 kg 4.4 lb

Package Level 1 EAN

6417019920825

Classifications

Object Classification Code	Q
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

