PRODUCT-DETAILS

OTDC160GV11-ESS

OTDC160GV11-ESS DC Switch-disconnector



General Information

Extended Product Type	OTDC160GV11-ESS
Product ID	1SCA161983R1001
EAN	6417019920702
Catalog Description	OTDC160GV11-ESS DC Switch-disconnector
Long Description	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. 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.

Circular Value

ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 50,7 %

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Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
End of Life Instructions	1SCC301113M0201
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

Environmental Product Declaration - EPD	1SCC301249D0201

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 9AKK108467A9503
Mechanical Drawings	OTDC100-250_G_11_STP 1SCC307811F0201
Environmental Product Declaration - EPD	1SCC301249D0201
End of Life Instructions	1SCC301113M0201

Dimensions

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

Connection Configuration	Single circuit 2a, 2b
Rated Operational	(1500 V) 160 A

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Current DC-21B (I_e)	
Rated Operational Current DC-PV1	(1500 V) 160 A
Rated Operational Current DC-PV2	(1500 V) 100 A
Conventional Free-air Thermal Current (I_{th})	Θ = 40 °C 160 A
Conventional Thermal Current (I_{the})	Fully Enclosed 160 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 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 3.1 ... 3.5 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

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

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Control Act - TSCA

Certificates and Declarations

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

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	1.8 kg 4 lb
Package Level 1 EAN	6417019920702

Classifications

Object Classification Code	Q
ETIM 7	EC000216 - Switch disconnector
ETIM 8	EC000216 - Switch disconnector
ETIM 9	EC000216 - Switch disconnector (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

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