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PRODUCT-DETAILS

OTDC315FV02S OTDC315FV02S DC Switch-disconnector



General Information	
Extended Product Type	OTDC315FV02S
Product ID	1SCA161226R1001
EAN	6417019913063
Catalog Description	OTDC315FV02S DC Switch-disconnector
Long Description	A fully optimized side operated 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. The two-pole side operated 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. The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters. Operation means on left or right side of the switches are available. Main characteristics for this particular OTDC type: Disconnect single PV circuit, Approved according to IEC 60947-13

ABB EcoSolutions

ABB EcoSolutions Yes

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Circular Value	
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 59,09 $\%$
End of Life Instructions	1SCC301112M0201
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
For Transparance	
Eco Transparency Environmental Product	1000201247D0201
Declaration - EPD	1SCC301247D0201
Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SCC301240D0201
RoHS Information	1SCC301239D0201
RoHS Status Toxic Substances Control Act - TSCA	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 1SCC301321D0201
Ordering Minimum Order Quantity Customs Tariff Number Country of Origin	1 piece 85353010 Finland (FI)
Popular Downloads	
Data Sheet, Technical Information	1SCC301022C0201
Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
Mechanical Drawings	OTDC250630_F_02F.igs OTDC250630_F_02F.stp 1SCC307765F0201 1SCC307766F0201
Wiring Diagram	1SCC301030K0201
Environmental Product Declaration - EPD	1SCC301247D0201
End of Life Instructions	1SCC301112M0201
Dimensions	
Dimensions Product Frame Size	14
Product Frame Size Product Net Width	M 196.2 mm
Product Net Height	7.7 in 211 mm
Product Net Depth / Length	8.3 in 148 mm 5.8 in
Product Net Weight	4.1 kg

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Technical	
Connection Configuration	Single circuit 2a, 2b
Rated Operational Current DC-21B (I _e)	(1500 V) 315 A
Rated Operational Current DC-22B	(1500 V) 315 A
Rated Operational Current DC-PV1	(1500 V) 315 A
Rated Operational Current DC-PV2	(1500 V) 315 A
Conventional Free-air Thermal Current (I _{th})	Θ = 40 °C 315 A
Rated Impulse Withstand Voltage (U _{imp})	12 kV
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
Power Loss	at Rated Operating Conditions per Pole 7 8 W
Handle Type	Handle and shaft not included
Positive Opening Operation Torque (Direct Opening Action)	11 19 N·m
Shaft Diameter	12 mm 0.47 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
Terminal Type	Lug terminals
Terminal Width	30 mm 1.2 ir
Utilization	Photovoltaio
Utilization Category	Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B)
	Switching of mixed resistive and inductive loads, including moderate overloads (i.e. shunt motors) - occasional actuation (DC-22B) 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		
CCC Certificate	CQC2019010302206498	
Declaration of Conformity - CE	1SCC301227D2701	
Declaration of Conformity - UKCA	1SCC301313D0201	
DNV GL Certificate	1SCC301231D0201	

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	220 mm
-	8.7 in

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Package Level 1 Depth / Length	250 mm 9.8 in
Package Level 1 Height	210 mm 8.3 in
Package Level 1 Gross Weight	4.3 kg 9.5 lb
Package Level 1 EAN	6417019913063

Classifications	
Object Classification Code	Q
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 \rightarrow Switches \rightarrow DC Switch-Disconnectors







