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PRODUCT-DETAILS

OTDC500FV11

OTDC500FV11 DC Switch-disconnector



General Information	
Extended Product Type	OTDC500FV11
Product ID	1SCA158226R1001
EAN	6417019873312
Catalog Description	OTDC500FV11 DC Switch-disconnector
Long Description	A fully optimized 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 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. Main characteristics for this particular OTDC type: Disconnect single PV circuit, Approved according to IEC 60947-1, -3

Circular Value

ABB EcoSolutions

Yes

Circular Design

Design for Closing Resource Loops - Standard EN45555 - 59,09 %

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Principles Recyclability Rate	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
End of Life Instructions	1SCC301112M0201
Environmental Product Declaration - EPD	1SCC301247D0201
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

Environmental Product 1SCC301247D0201 Declaration - EPD

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

Popular Downloads	
Data Sheet, Technical Information	1SCC301022C0201
Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
Mechanical Drawings	OTDC315-630FV11_stp OTDC315-630FV11_igs 1SCC307658F0001 1SCC307659F0001
Wiring Diagram	1SCC301030K0201
Environmental Product Declaration - EPD	1SCC301247D0201
End of Life Instructions	1SCC301112M0201

Dimensions	
Product Frame Size	М
Product Net Width	157.5 mm 6.2 in
Product Net Height	211 mm 8.3 in
Product Net Depth / Length	135 mm 5.3 in
Product Net Weight	3.5 kg 7.7 lb

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hnical	
nection Single circuit 2a iguration	a, 2b
d Operational (1500 V) 50 ent DC-21B (I _e)	00 A
d Operational (1500 V) 40 ent DC-22B	00 A
d Operational (1500 V) 50 ent DC-PV1	00 A
d Operational (1500 V) 50 ent DC-PV2	00 A
rentional Free-air Θ = 40 °C 50 mal Current (I _{th})	00 A
rentional Thermal Fully Enclosed 50 ent (I _{the})	00 A
	12 kV
d Insulation Voltage 150	500 V
d Operational 150	500 V
d Short-Circuit (1500 V DC) 10 ng Capacity (I _{cm})	.0 kA
d Short-time (1500 V DC) 10 stand Current Low for 1 s 10 age (I_{cw})	
er Loss at Rated Operating Conditions per Pole 182	20 W
tion Degree	3
lle Type Handle and shaft not inclu	uded
tive Opening tation Torque (Direct ning Action) 11 19	N∙m
	2 mm .47 in
ches Operating Mechanism Between the Pransism 11 (Between the Po	
tion of Line Top In - Bottom ninals Bottom In - Top	
rating Mode Front Opera	ated
dards IEC 60947-	-1, -3
ial Functions	No
nting Type Base moun	nting
ber of Circuits	1
ber of Poles	2
ee of Protection Front I	IP20
inal Type Lug termi	inals
) mm 1.2 in
nanical Durability 10000 c	cycle
ration Photovol	oltaic
Switching of resistive loads, including moderate overloads - occasion actuation (DC-included Section 1987). Switching of mixed resistive and inductive loads, including moder overloads (i.e. shunt motors) - occasional actuation (DC-included Section 1987). Switching of single PV string(s) without reverse and overcurrents (DC-included Section 1987).	-21B) erate -22B) -PV1)

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

Certificates and Declarations	
CCC Certificate	CQC2019010302206498
Declaration of Conformity - CE	1SCC301227D2701
Declaration of Conformity - UKCA	1SCC301313D0201
DNV GL Certificate	1SCC301231D0201
REACH Declaration	1SCC301240D0201

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	220 mm
	8.7 in
Package Level 1 Depth /	250 mm
Length	9.8 in
Package Level 1 Height	210 mm
	8.3 in
Package Level 1 Gross	3.8 kg
Weight	8.3 lb
Package Level 1 EAN	6417019873312

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 \rightarrow Switches \rightarrow DC Switch-Disconnectors

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