

PRODUCT-DETAILS

OTDC320UFV02 OTDC320UFV02 PV Disconnect Switch



Extended Product Type	OTDC320UFV02
Product ID	1SCA158188R1001
EAN	6417019872933
Catalog Description	OTDC320UFV02 PV Disconnect Switch
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 UL98B and IEC 60947-1,-3

Ordering Minimum Order Quantity 1 piece Customs Tariff Number 85353010

Popular Downloads

Data Sheet, Technical Information	1SCC301022C020 ⁻
Instructions and Manuals	1SCC301099M020 ⁻ 9AKK107492A619 ⁻
Mechanical Drawings	OTDC250-600UFV02_st OTDC250-600UFV02_ig 1SCC307662F000 1SCC307663F000
Wiring Diagram	1SCC301030K020
Dimensions	
Product Frame Size	N
Product Net Width	156.5 mm 6.2 i
Product Net Height	211 mn 8.3 i
Product Net Depth / Length	135 mn 5.3 i
Product Net Weight	3.6 kg 7.9 ll
Technical	
Connection Configuration	Single circuit 2a, 2l
Rated Operational Current DC-21B (I _e)	(1500 V) 400 A
Rated Operational Current DC-22B	(1500 V) 400 A
Rated Operational Current DC-PV1	(1500 V) 400 A
Rated Operational Current DC-PV2	(1500 V) 400 A
Conventional Free-air Thermal Current (I _{th})	400 /
Conventional Thermal Current (I _{the})	Fully Enclosed 400 A
Rated Impulse Withstand Voltage (U _{imp})	12 k¹
Rated Insulation Voltage (U _i)	1500 \
Rated Operational Voltage	1500 N
Rated Short-Circuit Making Capacity (I _{cm})	(1500 V DC) 10 k/
Rated Short-time Withstand Current (I _{cw})	(1500 V DC) 10 k/ for 1 s 10 k/
Protection Type	Circuit breake
Power Loss	at Rated Operating Conditions per Pole 13 W

Handle Type

Shaft Diameter

Handle and shaft not included

12 mm 0.47 in

Mechanism	02 (Left Side)
Position of Line Terminals	Top In - Bottom Out
	Bottom In - Top Out
Operating Mode	Front Operated
Standards	UL98B and 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	30 mm 1.2 in
Tightening Torque	Cable Lug 3040 N·m
Mechanical Durability	10000 cycle
Technical UL/CSA	
Maximum Operating Voltage UL/CSA	1500 V DC
Ampere Rating UL/CSA	1500VDC 320 A
Tightening Torque UL/CSA	Cable Lug 3044 N·m Cable Lug 266390 lbf·in
Environmental	
RoHS Status	Following EU Directive 2011/65/EU
Certificates and Declarations (Document Number)	
Declaration of Conformity - CE	1SCC301227D2701
DNV GL Certificate	1SCC301231D0201
Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
RoHS Information	1SCC301206D0205
Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	220 mm 8.7 in
Package Level 1 Depth / Length	250 mm 9.8 in
Package Level 1 Height	210 mm
	8.3 in
	0.01
Package Level 1 Gross Weight	3.8 kg 8.4 lb

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Classifications		
Object Classification Code	Q	
ETIM 5	EC000216 - Switch disconnector	
ETIM 6	EC000216 - Switch disconnector	
ETIM 7	EC000216 - Switch disconnector	
UNSPSC	39122233	
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)	

Categories

Low Voltage Products and Systems \rightarrow Industries \rightarrow Solar power \rightarrow 1500V DC Low Voltage Products and Systems \rightarrow Switches \rightarrow DC Switch-Disconnectors

