

PRODUCT-DETAILS

OTDC400UFV02 OTDC400UFV02 PV Disconnect Switch



Extended Product Type	OTDC400UFV02
Product ID	1SCA158213R1001
EAN	6417019873183
Catalog Description	OTDC400UFV02 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	1SCC301022C0201
Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
Mechanical Drawings	OTDC250-600UFV02_stp OTDC250-600UFV02_igs 1SCC307662F0001 1SCC307663F0001
Wiring Diagram	1SCC301030K0201
Dimensions	
Product Frame Size	М
Product Net Width	156.5 mm 6.2 in
Product Net Height	211 mm 8.3 in
Product Net Depth / Length	135 mm 5.3 in
Product Net Weight	3.6 kg 7.9 lb
Technical	
Connection Configuration	Single circuit 2a, 2b
Rated Operational Current DC-21B (I_e)	(1500 V) 500 A
Rated Operational Current DC-22B	(1500 V) 400 A
Rated Operational Current DC-PV1	(1500 V) 500 A
Rated Operational Current DC-PV2	(1500 V) 400 A
Conventional Free-air Thermal Current (I_{th})	500 A
Conventional Thermal Current (I _{the})	Fully Enclosed 500 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 (I _{cw})	(1500 V DC) 10 kA for 1 s 10 kA
Protection Type	Circuit breaker
Power Loss	at Rated Operating Conditions per Pole 20 W
Pollution Degree	3
Handle Type	Handle and shaft not included
Shaft Diameter	12 mm 0.47 in
Switches Operating	Mechanism at the End of the Switch

Promition of Line Terminals	Mechanism	02 (Left Side)
Bottom In - Top Out Operating Mode Fire Int Operated Standards UL98B and IEC 60947-1,		
Standards	. 55.16.1 5. 2.116 1.5.1.111.111	Bottom In - Top Out
Special Functions Nameur of Circuits	Operating Mode	Front Operated
Muniting Type Base mounting Number of Circuits	Standards	UL98B and IEC 60947-1, -3
Number of Circuits Number of Poles Degree of Protection Front IP2 Terminal Type Lug terminal Terminal Width 30 nm 1 2 in 1 2 in Tightening Torque Cable Lug 3040 Nm Mechanical Durability 10000 cycli Technical UL/CSA Maximum Operating 1500 V DC Voltage UL/CSA 1500 V DC Ampere Rating UL/CSA 1500 V DC UL/CSA Cable Lug 3044 Nm Certificates and Declarations (Document Number) Cable Lug 266390 lbris Environmental 15C301234000 Certificates and Declarations (Document Number) 15C301234000 Declaration of Conformity 15C301234000 - CE 15C301234000 DNV GL Certificate 15C301234000 Instructions and Manuals 15C3012080000 Container Information 15C3012080000 Certificates Level 1 Units box 1 piec Package Level 1 Width 220 nm Length 8.7 in Package Level 1 Depth / 250 nm	Special Functions	No
Number of Poles Degree of Protection	Mounting Type	Base mounting
Degree of Protection Front IP2t Terminal Type Lug terminal Terminal Width 30 nm 1.2 it Cable Lug 3040 Nm Mechanical Durability 10000 cycle Technical UL/CSA Maximum Operating 1500 VD 00 Voltage UL/CSA 1500 VD 00 Ampere Rating UL/CSA 1500 VD 00 Tightening Torque Cable Lug 3044 Nm Cable Lug 266390 lbf is Cable Lug 266390 lbf is Environmental RoHS Status Following EU Directive 2011/65/EU Certificates and Declarations (Document Number) Declaration of Conformity 1SCC301227D270 CEV 1SCC301220ED0 Deviations and Manuals 1SCC301230ED0 No VI Certificate 1SCC30120ED00 Container Information Container Information Package Level 1 Width 220 mm Package Level 1 Width 25 mm Package Level 1 Height 25 mm Package Level 1 Height 25 mm Packag	Number of Circuits	1
Terminal Type Lug terminal Terminal Width 30 nm Tightening Torque Cable Lug 3040 Nn Mechanical Durability 10000 cycl Technical UL/CSA Maximum Operating Voltage UL/CSA 1500 V DG Ampere Rating UL/CSA 1500 VDC 400 v Cable Lug 3044 Nn Cable Lug 3044 Nn Cable Lug 286990 lbfu Cable Lug 286990 lbfu Environmental RoHS Status Following EU Directive 2011/65/Et Certificates and Declarations (Document Number) Declaration of Conformity - CC CD DNV GL Certificate 15CC301227D270 - 20 CD DNV GL Certificate 15CC301231D020 linstructions and Manuals 15CC301231D020 linstructions and Manuals RoHS Information 15CC301206D020 Container Information Package Level 1 Units box 1 piece Package Level 1 Width 220 nm Package Level 1 Depth / Length 9.8 it Package Level 1 Height 9.8 it Package Level 1 Height 9.8 it Package L	Number of Poles	2
Terminal Width 30 mm Tightening Torque Cable Lug 3040 Nm Mechanical Durability 100000 cycle Technical UL/CSA Maximum Operating 1500 V DC Voltage UL/CSA 1500 VDC 400 / Ampere Rating UL/CSA 1500 VDC 400 / Cable Lug 3044 Nm Cable Lug 3044 Nm UL/CSA Cable Lug 3044 Nm Cable Lug 266390 lbHs Cable Lug 266390 lbHs Environmental Environmental Certificates and Declarations (Document Number) Declaration of Conformity 1SCC301227D270 / **C*** Certificate 1SCC301231D020 DNV GL Certificate 1SCC301231D020 BRIS Information 1SCC301206D020 Container Information Container Information Package Level 1 Units box 1 pice Package Level 1 Units box 1 pice Package Level 1 Units 220 mm Package Level 1 Units 25 mm Package Level 1 Units 38 la	Degree of Protection	Front IP20
1.2 is 1	Terminal Type	Lug terminals
Technical UL/CSA	Terminal Width	30 mm 1.2 in
Technical UL/CSA	Tightening Torque	Cable Lug 3040 N·m
Maximum Operating Voltage UL/CSA 1500 V DC Ampere Rating UL/CSA 1500 VDC 400 / Tightening Torque Cable Lug 3044 Nm Cable Lug 266390 lbfis Environmental RoHS Status Following EU Directive 2011/65/EU Certificates and Declarations (Document Number) Declaration of Conformity 1SCC301227D270 -CE 1SCC301231D020 Instructions and Manuals 1SCC301030000 Instructions and Manuals 1SCC30100000 Container Information Container Information Package Level 1 Units box 1 piec Package Level 1 Width 220 mm Package Level 1 Depth / 250 mm Length 9.8 in Package Level 1 Height 2.10 mm Package Level 1 Height 2.10 mm Package Level 1 Gross 3.8 kg Weight 8.4 ll	Mechanical Durability	10000 cycle
Voltage UL/CSA 1500VDC 400 / 1500VDC 400VDC 40	Technical UL/CSA	
Tightening Torque Cable Lug 3044 Nm Cable Lug 266390 lbfis Environmental Following EU Directive 2011/65/EU Certificates and Declarations (Document Number) Declaration of Conformity 1SCC301227D270 - CE 1SCC301231D020 Instructions and Manuals 1SCC301099M020 Not Information 1SCC301206D020 Container Information 220 mm Package Level 1 Units box 1 piece Package Level 1 Width 220 mm Package Level 1 Height 9.8 in Package Level 1 Height 2.9 in Package Level 1 Gross 3.8 kg Weight 8.4 li	Maximum Operating Voltage UL/CSA	1500 V DC
Environmental	Ampere Rating UL/CSA	1500VDC 400 A
Certificates and Declarations (Document Number) Declaration of Conformity	Tightening Torque UL/CSA	Cable Lug 3044 N·m Cable Lug 266390 lbf·in
Certificates and Declarations (Document Number) Declaration of Conformity		
Certificates and Declarations (Document Number)		Fallaccia a FIL Direction 2004/05/FIL
Declaration of Conformity	NOTO Status	Tollowing to blieding 2011/03/LO
- CE DNV GL Certificate 1SCC301231D020: Instructions and Manuals 1SCC301099M020: 9AKK107492A619 RoHS Information 1SCC301206D0209 Container Information Package Level 1 Units box 1 piece Package Level 1 Width 220 mm 8.7 is Package Level 1 Depth / 250 mm Length 9.8 is Package Level 1 Height 210 mm 8.3 is Package Level 1 Gross 3.8 kg Weight 8.4 li	Certificates and Declarations (Document Number)	
Instructions and Manuals	Declaration of Conformity - CE	1SCC301227D2701
RoHS Information 1SCC301206D0208 Container Information box 1 piece Package Level 1 Units box 1 piece Package Level 1 Width 220 mm 8.7 ir 8.7 ir Package Level 1 Depth / 250 mm Length 9.8 ir Package Level 1 Height 210 mm Package Level 1 Gross 3.8 kg Weight 8.4 ll	DNV GL Certificate	1SCC301231D0201
Container Information Package Level 1 Units box 1 piece Package Level 1 Width 220 mm Package Level 1 Depth / 250 mm Length 9.8 it Package Level 1 Height 210 mm Package Level 1 Gross 3.8 kg Weight 8.4 ll	Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
Package Level 1 Units box 1 piece Package Level 1 Width 220 mm Package Level 1 Depth / 250 mm Length 9.8 ir Package Level 1 Height 210 mm Package Level 1 Gross 3.8 kg Weight 8.4 ll	RoHS Information	1SCC301206D0205
Package Level 1 Width 220 mm 8.7 in Package Level 1 Depth / Length 250 mm Length 9.8 in Package Level 1 Height 210 mm 8.3 in Package Level 1 Gross 3.8 kg Weight 8.4 ii	Container Information	
Package Level 1 Width 220 mm 8.7 in Package Level 1 Depth / Length 250 mm Length 9.8 in Package Level 1 Height 210 mm 8.3 in Package Level 1 Gross 3.8 kg Weight 8.4 ii	Package Level 1 Units	box 1 piece
Length 9.8 ir Package Level 1 Height 210 mn 8.3 ir 8.4 ir Package Level 1 Gross 3.8 kg Weight 8.4 ir	Package Level 1 Width	220 mm 8.7 in
8.3 in Package Level 1 Gross 3.8 kg Weight 8.4 II	Package Level 1 Depth / Length	250 mm 9.8 in
Weight 8.4 II	Package Level 1 Height	210 mm 8.3 in
Package Level 1 EAN 641701987318	Package Level 1 Gross Weight	3.8 kg 8.4 lb
	Package Level 1 EAN	6417019873183

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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

