

PRODUCT-DETAILS

OTDC500FV22 OTDC500FV22 DC Switch-disconnector



Extended Product Type	OTDC500FV22
Product ID	1SCA158303R100 ²
EAN	641701987408 ⁻
Catalog Description	OTDC500FV22 DC Switch-disconnecto
Long Description	A fully optimized four-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 are increase in efficiency and performance to help manufacturers adapt to the industry's rapid adoption of 1500V DC solutions. The four-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch losses. The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters. Main characteristics of this particular OTDC type Disconnect double PV circuit, Approved according to IEC 60947-1, -5

Ordering1 pieceMinimum Order Quantity1 pieceCustoms Tariff Number85353010Country of OriginFinland (FI)

Popular Downloads

Data Sheet, Technical Information	1SCC301022C0201
Instructions and Manuals	1SCC301099M0201
	9AKK107492A6191
Mechanical Drawings	OTDC315-630FV22_stp
	OTDC315-630FV22_igs
	1SCC307664F0001
	1SCC307665F0001
Wiring Diagram	1SCC301035K0201

Dimensions	
Product Frame Size	M
Product Net Width	255.5 mm
	10.1 in
Product Net Height	211 mm
	8.3 in
Product Net Depth /	135 mm
Length	5.3 in
Product Net Weight	7.7 kg
	16.9 lb

Technical	
Connection Configuration	Double circuit 4a, 4c
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) 500 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
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	Mechanism Between the Poles 22 (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	2
Number of Poles	4
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
Utilization	Photovoltaic
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)

Environmental

RoHS Status Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

CCC Certificate	CQC2019010302206498
Declaration of Conformity - CE	1SCC301227D2701
DNV GL Certificate	1SCC301231D0201
Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
RoHS Information	1SCC301227D2701

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	270 mm
	10.6 in
Package Level 1 Depth /	310 mm
Length	12.2 in
Package Level 1 Height	200 mm
	7.9 in
Package Level 1 Gross	8 kg
Weight	17.5 lb
Package Level 1 EAN	6417019874081

Classifications

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

Categories

Low Voltage Products and Systems \rightarrow Switches \rightarrow DC Switch-Disconnectors

