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PRODUCT-DETAILS

OTDC800F22-PV2 DC Switch-disconnector



General Information	
Extended Product Type	OTDC800F22-PV2
Product ID	1SCA161684R1001
EAN	6417019918327
Catalog Description	OTDC800F22-PV2 DC Switch-disconnector
Long Description	A fully optimized four-pole DC switch-disconnector for 1000V utility-scale photovoltaic power plants covering 315-800A 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 four-pole 1000V 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 single PV circuit, Approved according to IEC 60947-1, -3, DC-PV2 ratings
ABB EcoSolutions	Yes
ABB EcoSolutions	Yes
Circular Value	

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Circular Design Principles	Design for Closing Resource Loc	ops - Standard EN45555 - 59,09 %
Recyclability Rate End of Life Instructions		1SCC301112M0201
Group Waste to Landfill Target	UL 2799 Zero Wa	ste To Landfill Validation available
Improved Resource Efficiency for Customers	Product Efficiency - Product considered n similar product on market or	nore energy-efficient compared to colder products from the same line
Eco Transparency		
Environmental Product 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 Ar	mendment 2015/863 July 22, 2019 1SCC301321D0201
Ordering		
Ordering Minimum Order Quantity		1 piece
Customs Tariff Number		1 piece 85363090
Country of Origin		Finland (FI)
Popular Downloads		
Data Sheet, Technical Information		1SCC301022C0201
Instructions and Manuals		1SCC301102M0201
Environmental Product Declaration - EPD		1SCC301247D0201
End of Life Instructions		1SCC301112M0201
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 / Length		135 mm 5.3 in
Product Net Weight		10 kg 22 lb
Technical		_
Connection Configuration Rated Operational Current DC-21B (I _e)		Single circuit 6c, 6g (1000 V) 800 A
Rated Operational Current DC-PV1		(1000 V) 800 A
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(1000 V) 800 A	Rated Operational Current DC-PV2
Θ = 40 °C 800 A	Conventional Free-air Thermal Current (I _{th})
Fully Enclosed 800 A	Conventional Thermal Current (I _{the})
12 kV	Rated Impulse Withstand Voltage (U _{imp})
1500 V	Rated Insulation Voltage (U _i)
1000 V	Rated Operational Voltage
(1000 V DC) 10 kA	Rated Short-Circuit Making Capacity (I _{cm})
(1000 V DC) 10 kA for 1 s 10 kA	Rated Short-time Withstand Current Low Voltage (I _{cw})
at Rated Operating Conditions per Pole 30 32 W	Power Loss
3	Pollution Degree
Handle and shaft not included	Handle Type
18 30 N·m	Positive Opening Operation Torque (Direct Opening Action)
12 mm 0.47 in	Shaft Diameter
Mechanism Between the Poles 22 (Between the Poles)	Switches Operating Mechanism
Top In - Bottom Out Bottom In - Top Out	Position of Line Terminals
Front Operated	Operating Mode
IEC 60947-1, -3	Standards
No	Special Functions
Base mounting	Mounting Type
1	Number of Circuits
4	Number of Poles
Front IP20	Degree of Protection
Lug terminals	Terminal Type
30 mm 1.2 in	Terminal Width
10000 cycle	Mechanical Durability
Photovoltaic	Utilization
Switching of single PV string(s) without reverse and overcurrents (DC-PV1)	Utilization Category

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	270 mm 10.6 in
Package Level 1 Depth / Length	310 mm 12.2 in
Package Level 1 Height	200 mm 7.9 in
Package Level 1 Gross	10 kg

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 Weight
 22 lb

 Package Level 1 EAN
 6417019918327

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







