



PRODUCT-DETAILS

OTDC400FV11K

OTDC400FV11K DC Switch-disconnector



General Information	
Extended Product Type:	OTDC400FV11K
Product ID:	1SCA158268R1001
Catalog Description:	OTDC400FV11K 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. 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
Display Name:	OTDC400FV11K

Popular Downloads	
Data Sheet, Technical Information:	1SCC301022C0201
Instructions and Manuals:	1SCC301099M0201 9AKK107492A6191

Mechanical Drawings:	OTDC315-630FV11K_stp OTDC315-630FV11K_igs
Wiring Diagram:	1SCC301030K0201

Environmental

Degree of Protection:	Front IP20
Pollution Degree:	3

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85353010
Country of Origin:	India

Dimensions

Product Frame Size:	M
Product Net Width:	177.5 mm 7 in
Product Net Height:	211 mm 8.3 in
Product Net Depth / Length:	169.5 mm 6.7 in
Product Net Weight:	3.8 kg 8.4 lb

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
Package Level 1 Gross Weight:	4.1 kg 9 lb
Package Level 1 EAN:	6417019873732

Technical

Connection Configuration:	Single circuit 2a, 2b
Conventional Free-air Thermal Current (I _{th}):	Θ = 40 °C 400 A

Conventional Thermal Current (I_{the}):	Fully Enclosed 400 A
Handle Color:	Black
Handle Length:	95 mm 3.7 in
Handle Type:	Direct Mount
Mechanical Durability:	10000 cycle
Mounting Type:	Base mounting
Number of Circuits:	1
Number of Poles:	2P
Operating Mode:	Front
Position of Line Terminals:	Top In - Bottom Out Bottom In - Top Out
Positive Opening Operation Torque (Direct Opening Action):	11 ... 19 N·m
Power Loss:	at Rated Operating Conditions per Pole 12 ... 13 W Total 24 ... 26 W
Rated Impulse Withstand Voltage (U_{imp}):	12 kV
Rated Insulation Voltage (U_i):	1500 V
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
Rated Operational Voltage:	1500 V
Rated Short-Circuit Making Capacity (I_{cm}):	(1500 V DC) 10 kA
Rated Short-time Withstand Current Low Voltage (I_{cw}):	(1500 V DC) 10 kA for 1 s 10 kA
Shaft Diameter:	12 mm 0.47 in
Shaft Length:	160 mm 6.3 in
Special Functions:	No
Standards:	IEC 60947-1, -3
Switches Operating Mechanism:	Mechanism Between the Poles 11 (Between the Poles)
Terminal Type:	Lug terminals
Terminal Width:	30 mm 1.2 in
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)

Certificates and Declarations

Declaration of Conformity - CE: 1SCC301227D2701

External Classifications and Standards

Object Classification Code:	Q
ETIM 9:	EC000216 - Switch disconnecter (low voltage)
ETIM 10:	EC004963 - Switch disconnecter (DC)
eClass:	V11.1 : 27371403
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

Products > Low Voltage Products and Systems > Switches > DC Switch-Disconnectors

