

PRODUCT-DETAILS

## OTDC600UFS02 PV Disconnect Switch



General Information	
Extended Product Type	OTDC600UFS02
Product ID	1SCA158368R1001
EAN	6417019874692
Catalog Description	OTDC600UFS02 PV Disconnect Switch
Long Description	A fully optimized two-pole DC switch-disconnector for 1000V 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.  The two-pole 1000V DC Switch 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 UL98B and IEC 60947-1,-3, Factory fitted connection bar kits

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85363090
Last Ordering Date	2021-05-31 All Countries
Country of Origin	Finland (FI)

## Popular Downloads

Data Sheet, Technical Information

1SCC301022C0201

Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
Mechanical Drawings	OTDC600UFSV02_stp OTDC600UFSV02_igs 1SCC307680F0001 1SCC307681F0001
Wiring Diagram	1SCC301026K0201

Dimensions	
Product Frame Size	М
Product Net Width	180 mm 7.1 in
Product Net Height	335.5 mm 13.2 in
Product Net Depth / Length	135 mm 5.3 in
Product Net Weight	4.6 kg 10.1 lb

Single circuit 1a
(1000 V) 630 A
(1000 V) 400 A
(1000 V) 500 A
(1000 V) 500 A
630 A
Fully Enclosed 630 A
12 kV
1500 V
1000 V
(1000 V DC) 10 kA
(1500 V DC) 10 kA for 1 s 10 kA
Circuit breaker
at Rated Operating Conditions per Pole 32 W
3
Handle and shaft not included
12 mm 0.47 in
Mechanism at the End of the Switch 02 (Left Side)
Bottom In - Bottom Out
Front Operated
UL98B and IEC 60947-1, -3
US single-wire break
Base mounting
1
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
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)

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	1000 V DC
Ampere Rating UL/CSA	1000VDC 600 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)	
CCC Certificate	CQC2019010302206498
Declaration of Conformity - CE	1SCC301227D2701
DNV GL Certificate	1SCC301231D0201
Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
RoHS Information	1SCC301227D2701
UL Certificate	UL certificate OTDC250-1000UF

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	310 mm 12.2 in
Package Level 1 Depth / Length	410 mm 16.1 in
Package Level 1 Height	200 mm 7.9 in
Package Level 1 Gross Weight	5.2 kg 11.4 lb
Package Level 1 EAN	6417019874692

Classifications	
Object Classification Code	Q
ETIM 5	EC000216 - Switch disconnector
ETIM 6	EC000216 - Switch disconnector
ETIM 7	EC000216 - Switch disconnector

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WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

## Categories

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

