

PRODUCT-DETAILS

OTDC100US02K

OTDC100US02K PV Disconnect Switch



General Information

Extended Product Type	OTDC100US02K
Product ID	1SCA127744R1001
EAN	6417019576572
Catalog Description	OTDC100US02K PV Disconnect Switch
Long Description	OTDC100US02K PV Disconnect Switch, Direct mounted handle and terminal bolt kit included, Base mounting, US single-wire break, UL 1000 VDC 100 A, IEC 1000 VDC 160 A

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85363030
Last Ordering Date	2021-11-30 All Countries
Country of Origin	Finland (FI)

Popular Downloads

Data Sheet, Technical Information	1SCC301022C0201
Instructions and Manuals	1SCC301081M0206

Dimensions

Product Frame Size	S
Product Net Width	176 mm 6.9 in
Product Net Height	110.5 mm 4.4 in
Product Net Depth / Length	108.9 mm 4.3 in
Product Net Weight	1.4 kg 3.2 lb

Technical

Connection Configuration	Single circuit 1a
Rated Operational Current DC-21B (I_e)	(1000 V) 160 A
Conventional Free-air Thermal Current (I_{th})	160 A
Conventional Thermal Current (I_{the})	Fully Enclosed 160 A
Rated Impulse Withstand Voltage (U_{imp})	12 kV
Rated Insulation Voltage (U_i)	1500 V
Rated Operational Voltage	1000 V
Rated Short-Circuit Making Capacity (I_{cm})	(1000 V DC) 10 kA
Rated Short-time Withstand Current (I_{cw})	(1000 V DC) 10 kA for 1 s 5 kA for 0.1 s 10 kA
Protection Type	Circuit breaker
Power Loss	at Rated Operating Conditions per Pole 4 W
Pollution Degree	3
Handle Color	Black
Handle Length	65 mm 2.6 in
Handle Type	Direct mounted handle
Shaft Diameter	6 mm 0.24 in
Shaft Length	105 mm 4.1 in
Switches Operating Mechanism	Mechanism at the End of the Switch 02 (Left Side)
Position of Line Terminals	Bottom In - Bottom Out
Operating Mode	Front Operated
Standards	UL98B and IEC 60947-1, -3
Special Functions	US single-wire break
Mounting Type	Base mounting
Number of Circuits	1
Number of Poles	2
Degree of Protection	Front IP20

Terminal Type	Lug terminals
Terminal Width	19.5 mm 0.77 in
Tightening Torque	Cable Lug 15...22 N·m
Utilization	Photovoltaic
Utilization Category	Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B)

Technical UL/CSA

Maximum Operating Voltage UL/CSA	1000 V DC
Ampere Rating UL/CSA	1000VDC 100 A
Tightening Torque UL/CSA	Cable Lug 10...12 N·m Cable Lug 133...195 lbf·in

Environmental

RoHS Status	Following EU Directive 2011/65/EU
-------------	-----------------------------------

Certificates and Declarations (Document Number)

CCC Certificate	CQC2013010302611671
CSA Certificate	CSA Letter_of_Attestation OTDC100-200.pdf
Declaration of Conformity - CE	1SCC301201D2703
DNV GL Certificate	1SCC301231D0201
Instructions and Manuals	1SCC301081M0206
RoHS Information	1SCC301201D2703
UL Certificate	UL certificate OTDC100-200.pdf

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	210 mm 8.3 in
Package Level 1 Depth / Length	210 mm 8.3 in
Package Level 1 Height	150 mm 5.9 in
Package Level 1 Gross Weight	1.6 kg 3.6 lb
Package Level 1 EAN	6417019576572

Classifications

Object Classification Code	Q
ETIM 5	EC000216 - Switch disconnecter
ETIM 6	EC000216 - Switch disconnecter

ETIM 7	EC000216 - Switch disconnect
UNSPSC	39122233
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

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

