



PRODUCT-DETAILS

# OTDC100U22

## OTDC100U22 PV Disconnect Switch



General Information	
Extended Product Type	OTDC100U22
Product ID	1SCA126180R1001
EAN	6417019561608
Catalog Description	OTDC100U22 PV Disconnect Switch
Long Description	OTDC100U22 PV Disconnect Switch, Terminal bolt kit included, Handle and shaft need to be ordered separately, Base mounting, UL 1000 VDC 100 A, IEC 1000 VDC 160 A

ABB EcoSolutions	
ABB EcoSolutions	Yes
ABB Site Meeting Group Waste To Landfill Target	UL 2799 Zero Waste To Landfill Validation available
End Of Life Disassembling Instructions	1SCC301114M0201
Environmental Information	NA
Environmental Product Declaration - EPD	1SCC301248D0201

Improved Energy Efficiency for Customers	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 66,5 %

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SCC301240D0201
RoHS Information	1SCC301239D0201
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	1SCC301321D0201

Popular Downloads

Data Sheet, Technical Information	1SCC301022C0201
Instructions and Manuals	1SCC301081M0206
Mechanical Drawings	OTDC100_200U22.igs 1SCC307583F0201 1SCC307584F0201
Wiring Diagram	1SCC301033K0201
Environmental Product Declaration - EPD	1SCC301248D0201

Environmental

Degree of Protection	Front IP20
Environmental Information	NA
Pollution Degree	3

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85363030
Country of Origin	Finland (FI)

Dimensions

Product Frame Size	S1.0
Product Net Width	185.4 mm 7.3 in
Product Net Height	262 mm 10.3 in
Product Net Depth / Length	90.5 mm 3.6 in
Product Net Weight	2.2 kg 4.9 lb

# Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	220 mm 8.7 in
Package Level 1 Depth / Length	260 mm 10.2 in
Package Level 1 Height	155 mm 6.1 in
Package Level 1 Gross Weight	2.6 kg 5.7 lb
Package Level 1 EAN	6417019561608

# Technical

Connection Configuration	Double circuit 4a, 4c
Conventional Free-air Thermal Current ( $I_{th}$ )	$\Theta = 40\text{ }^{\circ}\text{C}$ 160 A
Conventional Thermal Current ( $I_{the}$ )	Fully Enclosed 160 A
Degree of Protection	Front IP20
Handle Type	Handle and shaft not included
Mounting Type	Base mounting
Number of Circuits	2
Number of Poles	4P
Operating Mode	Front Operated
Pollution Degree	3
Position of Line Terminals	Top In - Bottom Out Bottom In - Top Out
Positive Opening Operation Torque (Direct Opening Action)	5 ... 8 N·m
Power Loss	at Rated Operating Conditions per Pole 4 W
Protection Type	Circuit breaker
Rated Impulse Withstand Voltage ( $U_{imp}$ )	12 kV
Rated Insulation Voltage ( $U_i$ )	1500 V
Rated Operational Current DC-21B ( $I_e$ )	(1000 V) 160 A
Rated Operational Voltage	1000 V
Rated Short-Circuit Making Capacity ( $I_{cm}$ )	(1000 V DC) 10 kA
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ )	(1000 V DC) 10 kA for 1 s 5 kA for 0.1 s 10 kA
Shaft Diameter	6 mm 0.24 in
Special Functions	No
Standards	UL98B and IEC 60947-1, -3
Switches Operating Mechanism	Mechanism Between the Poles 22 (Between the Poles)
Terminal Type	Lug terminals
Terminal Width	19.5 mm 0.77 in
Tightening Torque	Cable Lug 15 ... 22 N·m

	Cable Lug 133 ... 195 lbf-in
Utilization	Photovoltaic
Utilization Category	Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B)

Technical UL/CSA

Maximum Operating Voltage	1000Vdc, UL 98B
Ampere Rating	100A,1000Vdc,UL98B
Short-Circuit Current Rating (SCCR)	10 kA 1000 V DC
Tightening Torque	Cable Lug 15 ... 22 N-m Cable Lug 133 ... 195 lbf-in

Certificates and Declarations

CCC Certificate	CQC2013010302611671
CSA Certificate	CSA Letter_of_Attestation OTDC100-200.pdf
Declaration of Conformity - CE	1SCC301201D2703
Declaration of Conformity - UKCA	1SCC301313D0201
DNV GL Certificate	1SCC301231D0201
UL Certificate	UL certificate OTDC100-200.pdf

External Classifications and Standards

Object Classification Code	Q
ETIM 8	EC000216 - Switch disconnectors
ETIM 9	EC000216 - Switch disconnectors (low voltage)
UNSPSC	39122233
IDEA Granular Category Code (IGCC)	5293 >> Switch disconnectors
eClass	V11.1 : 27371403
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

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

