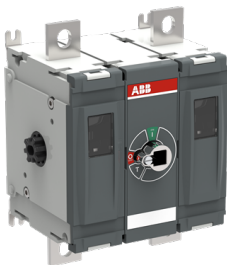




PRODUCT-DETAILS

# OTDC250UFV11-ESS

## OTDC250UFV11-ESS PV Disconnect Switch



General Information	
Extended Product Type	OTDC250UFV11-ESS
Product ID	1SCA158167R1001
EAN	6417019872728
Catalog Description	OTDC250UFV11-ESS PV Disconnect Switch
Long Description	ABB offers new OTDC Switch-disconnectors specially designed for reliable switching for ESS applications where higher performance is needed. They are durable and virtually maintenance-free, and offer easy installation for all imaginable situations. Depending on the ESS layout and the customer's wishes, the OTDC switch-disconnectors may be used in one or more sections of the overall setup, for the battery protection. Main characteristics of this particular OTDC type: Rated conditional short circuit current with fuses is 30kA, 2-Pole, 1500Vdc, Approved according to UL98B and IEC 60947-1.-3

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	1SCC301112M0201
Environmental Product Declaration - EPD	1SCC301247D0201

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 - 59,09 %

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	1SCC301099M0201 9AKK107492A6191 9AKK108467A9503
Mechanical Drawings	OTDC250-600UFV11_stp OTDC250-600UFV11_igs 1SCC307658F0001 1SCC307659F0001
Wiring Diagram	1SCC301030K0201
Environmental Product Declaration - EPD	1SCC301247D0201

Environmental

Degree of Protection	Front IP20
Pollution Degree	3

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85353010
Country of Origin	Finland (FI)

Dimensions

Product Frame Size	M
Product Net Width	157.5 mm 6.2 in
Product Net Height	211 mm 8.3 in
Product Net Depth / Length	135 mm 5.3 in
Product Net Weight	3.5 kg 7.7 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	3.8 kg 8.3 lb
Package Level 1 EAN	6417019872728

## Technical

Connection Configuration	Single circuit 2a, 2b
Conventional Free-air Thermal Current ( $I_{th}$ )	$\Theta = 40\text{ °C}$ 315 A
Conventional Thermal Current ( $I_{the}$ )	Fully Enclosed 315 A
Degree of Protection	Front IP20
Handle Type	Handle and shaft not included
Mechanical Durability	10000 cycle
Mounting Type	Base mounting
Number of Circuits	1
Number of Poles	2P
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)	11 ... 19 N·m
Power Loss	at Rated Operating Conditions per Pole 7 ... 8 W
Protection Type	Circuit breaker or a fuse selected from the fuse coordination table. For the coordination tables (9AKK108467A9503 & 9AKK108467A9504) please see the section Instructions and Manuals.
Rated Conditional Short-Circuit Current ( $I_{nc}$ )	(1500 V DC) 100 kA
Rated Impulse Withstand Voltage ( $U_{imp}$ )	12 kV
Rated Insulation Voltage ( $U_i$ )	1500 V
Rated Operational Current DC-21B ( $I_e$ )	(1500 V) 315 A
Rated Operational Current DC-22B	(1500 V) 315 A
Rated Operational Current DC-PV1	(1500 V) 315 A
Rated Operational Current DC-PV2	(1500 V) 315 A
Rated Operational Voltage	1500 V
Rated Short-Circuit Making Capacity ( $I_{cm}$ )	(1500 V DC) 20 kA
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ )	(1500 V DC) 10 kA for 1 s 10 kA for 0.1 s 20 kA
Shaft Diameter	12 mm 0.47 in
Special Functions	No
Standards	UL98B and 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
Tightening Torque	Cable Lug 30 ... 44 N·m Cable Lug 266 ... 390 lbf·in

Utilization	Energy Storage System (ESS)
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	1500Vdc, UL 98B
Ampere Rating	250A, 1500Vdc, UL98B
Short-Circuit Current Rating (SCCR)	Any UL Listed Fuses or Circuit-Breakers 10 kA Fuse, see Catalog 50 kA
Tightening Torque	Cable Lug 30 ... 44 N·m Cable Lug 266 ... 390 lbf·in

Certificates and Declarations

CCC Certificate	CQC2019010302206498
Declaration of Conformity - CE	1SCC301227D2701
Declaration of Conformity - UKCA	1SCC301313D0201
DNV GL Certificate	1SCC301231D0201
UL Certificate	UL certificate OTDC250-1000UF

External Classifications and Standards

Object Classification Code	Q
ETIM 8	EC000216 - Switch disconnecter
ETIM 9	EC000216 - Switch disconnecter (low voltage)
UNSPSC	39122233
IDEA Granular Category Code (IGCC)	5293 >> Switch disconnecter
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

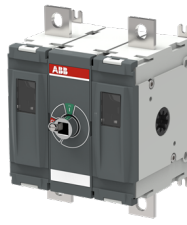
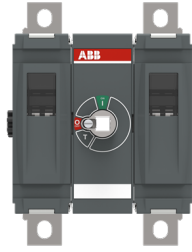


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