

PRODUCT-DETAILS

# OTDC500FV11-ESS

## OTDC500FV11-ESS DC Switch-disconnector



### General Information

Extended Product Type	OTDC500FV11-ESS
Product ID	1SCA158227R1001
EAN	6417019873329
Catalog Description	OTDC500FV11-ESS DC Switch-disconnector
Long Description	<p>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.</p> <p>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.</p> <p>Main characteristics of this particular OTDC type:            Rated conditional short circuit current with fuses is 30kA, 2-Pole, 1500Vdc, Approved according to IEC 60947-1, -3</p>

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85353010

### Popular Downloads

Data Sheet, Technical Information	1SCC301022C0201
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Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
Mechanical Drawings	OTDC315-630FV11_stp OTDC315-630FV11_igs 1SCC307658F0001 1SCC307659F0001
Wiring Diagram	1SCC301030K0201

## 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

## Technical

Connection Configuration	Single circuit 2a, 2b
Rated Operational Current DC-21B ( $I_e$ )	(1500 V) 500 A
Rated Operational Current DC-22B	(1500 V) 400 A
Rated Operational Current DC-PV1	(1500 V) 500 A
Rated Operational Current DC-PV2	(1500 V) 500 A
Conventional Free-air Thermal Current ( $I_{th}$ )	500 A
Conventional Thermal Current ( $I_{the}$ )	Fully Enclosed 500 A
Rated Impulse Withstand Voltage ( $U_{imp}$ )	12 kV
Rated Insulation Voltage ( $U_i$ )	1500 V
Rated Operational Voltage	1500 V
Rated Short-Circuit Making Capacity ( $I_{cm}$ )	(1500 V DC) 20 kA
Rated Short-time Withstand Current ( $I_{cw}$ )	(1500 V DC) 10 kA for 1 s 10 kA for 0.1 s 20 kA
Rated Conditional Short- Circuit Current ( $I_{nc}$ )	(1500 V DC) 100 kA
Protection Type	Fuselink max. 500A, ETI, Cat.no 004110 followed by 634, 639 or 644.
Power Loss	at Rated Operating Conditions per Pole 20 W
Pollution Degree	3
Handle Type	Handle and shaft not included
Shaft Diameter	12 mm 0.47 in

Switches Operating Mechanism	Mechanism Between the Poles 11 (Between the Poles)
Position of Line Terminals	Top In - Bottom Out Bottom In - Top Out
Operating Mode	Front Operated
Standards	IEC 60947-1, -3
Special Functions	No
Mounting Type	Base mounting
Number of Circuits	1
Number of Poles	2
Degree of Protection	Front IP20
Terminal Type	Lug terminals
Terminal Width	30 mm 1.2 in
Tightening Torque	Cable Lug 30...40 N·m
Mechanical Durability	10000 cycle

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## Environmental

RoHS Status	Following EU Directive 2011/65/EU
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## Certificates and Declarations (Document Number)

Declaration of Conformity - CE	1SCC301227D2701
DNV GL Certificate	1SCC301231D0201
Instructions and Manuals	1SCC301099M0201 9AKK107492A6191
RoHS Information	1SCC301206D0205

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## 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	6417019873329

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## Classifications

Object Classification Code	Q
ETIM 5	EC000216 - Switch disconnecter
ETIM 6	EC000216 - Switch disconnecter
ETIM 7	EC000216 - Switch disconnecter

WEEE Category

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

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## Categories

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

