



PRODUCT-DETAILS

# OTDC1000FV22-ESS

## OTDC1000FV22-ESS DC Switch-disconnector



General Information	
Extended Product Type	OTDC1000FV22-ESS
Product ID	1SCA161289R1001
EAN	6417019913919
Catalog Description	OTDC1000FV22-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, 4-Pole, 1500Vdc, Approved according to IEC 60947-1, -3</p>

Circular Value	
ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 59,09 %

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
End of Life Instructions	1SCC301112M0201
Environmental Product Declaration - EPD	1SCC301247D0201
Group Waste to Landfill Target	UL 2799 Zero Waste To Landfill Validation available
Improved Resource Efficiency for Customers	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
REACH Declaration	1SCC301240D0201
RoHS Information	1SCC301239D0201
Toxic Substances Control Act - TSCA	1SCC301321D0201

Eco Transparency

Environmental Product Declaration - EPD	1SCC301247D0201
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Ordering

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

Popular Downloads

Data Sheet, Technical Information	1SCC301022C0201
Instructions and Manuals	1SCC301102M0201 9AKK108467A9503
Mechanical Drawings	OTDC800...1000_F_22_OTDCKIT800FS11.igs OTDC800...1000_F_22_OTDCKIT800FS11.stp 1SCC307779F0201 1SCC307780F0201
Wiring Diagram	1SCC301046K0201
Environmental Product Declaration - EPD	1SCC301247D0201
End of Life Instructions	1SCC301112M0201

Dimensions

Product Frame Size	M
Product Net Width	196.2 mm 7.7 in
Product Net Height	211 mm 8.3 in
Product Net Depth / Length	148 mm 5.8 in
Product Net Weight	9.7 kg 21.3 lb

Technical

Connection Configuration	Single circuit 6c, 6g
Rated Operational Current DC-21B (I <sub>e</sub> )	(1500 V) 1000 A
Conventional Free-air Thermal Current (I <sub>th</sub> )	Θ = 40 °C 1000 A
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	12 kV
Rated Operational Voltage	1500 V
Rated Short-Circuit Making Capacity (I <sub>cm</sub> )	(1500 V DC) 63 kA
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	(1500 V DC) 10 kA for 1 s 10 kA for 0.1 s 63 kA
Rated Conditional Short-Circuit Current (I <sub>nc</sub> )	(1500 V DC) 100 kA
Protection Type	For 100kA Iq rating any fuse which does not exceed allowed let through peak 70kA or allowed let through energy 2,4MA^2s can be used. For 50kA Iq rating a circuit breaker or a fuse selected from the fuse coordination table. For the coordination table (9AKK108467A9503) please see the section Instructions and Manuals.
Power Loss	at Rated Operating Conditions per Pole 30...32 W
Handle Type	Handle and shaft not included
Positive Opening Operation Torque (Direct Opening Action)	18 ... 30 N·m
Shaft Diameter	12 mm 0.47 in
Switches Operating Mechanism	Mechanism Between the Poles 22 (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	4
Terminal Width	30 mm 1.2 in
Utilization	Energy Storage System (ESS)
Utilization Category	Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B) Switching of single PV string(s) without reverse and overcurrents (DC-PV1)

Environmental

RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	1SCC301321D0201

Certificates and Declarations

CCC Certificate	CQC2019010302206498
Declaration of Conformity - CE	1SCC301227D2714
Declaration of	1SCC301313D0201

Conformity - UKCA	
DNV GL Certificate	1SCC301231D0201
REACH Declaration	1SCC301240D0201

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	270 mm 10.6 in
Package Level 1 Depth / Length	310 mm 12.2 in
Package Level 1 Height	200 mm 7.9 in
Package Level 1 Gross Weight	10 kg 22 lb
Package Level 1 EAN	6417019913919

Classifications

Object Classification Code	Q
ETIM 7	EC000216 - Switch disconnecter
ETIM 8	EC000216 - Switch disconnecter
ETIM 9	EC000216 - Switch disconnecter (low voltage)
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

