



PRODUCT-DETAILS

# OTDC100GV22

## OTDC100GV22 DC Switch-disconnector




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### General Information

Extended Product Type	OTDC100GV22
Product ID	1SCA161976R1001
EAN	6417019920634
Catalog Description	OTDC100GV22 DC Switch-disconnector
Long Description	A fully optimized four-pole DC switch-disconnector to operate 2 circuits with single switch. The new design offers both a size reduction and an increase in efficiency and performance to help manufacturers adapt to the industry's rapid adoption of 1500V DC solutions.

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### Circular Value

ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 50,7 %
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
End of Life Instructions	1SCC301113M0201
Environmental Product Declaration - EPD	1SCC301249D0201
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	1SCC301249D0201
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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	1SCC301106M0201
Mechanical Drawings	OTDC100-250_G_22_STP 1SCC307815F0201
Environmental Product Declaration - EPD	1SCC301249D0201
End of Life Instructions	1SCC301113M0201

## Dimensions

Product Frame Size	S2.0
Product Net Width	224 mm 8.8 in
Product Net Height	165 mm 6.5 in
Product Net Depth / Length	120 mm 4.7 in
Product Net Weight	3 kg 6.5 lb

## Technical

Connection Configuration	Double circuit 4a, 4c
Rated Operational Current DC-21B ( $I_g$ )	(1500 V) 100 A
Rated Operational Current DC-PV1	(1500 V) 100 A
Rated Operational Current DC-PV2	(1500 V) 100 A
Conventional Free-air Thermal Current ( $I_{th}$ )	$\Theta = 40\text{ °C}$ 100 A
Conventional Thermal Current ( $I_{the}$ )	Fully Enclosed 100 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) 10 kA
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ )	(1500 V DC) 10 kA for 1 s 10 kA
Protection Type	Circuit breaker
Power Loss	at Rated Operating Conditions per Pole 1.0 ... 1.3 W
Pollution Degree	2
Handle Type	Handle and shaft not included
Positive Opening Operation Torque (Direct Opening Action)	6 ... 9 N·m
Shaft Diameter	6 mm 0.24 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	2
Number of Poles	4
Degree of Protection	Front IP20
Terminal Type	Lug terminals
Terminal Width	19.5 mm 0.77 in
Mechanical Durability	10000 cycle
Utilization	Photovoltaic
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) Switching of several PV string(s) with reverse and overcurrents (DC-PV2)

## 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

Declaration of Conformity - CE	1SCC301242D2701
Declaration of Conformity - UKCA	1SCC301313D0201
REACH Declaration	1SCC301240D0201

## 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	3.3 kg 7.3 lb

Package Level 1 EAN

6417019920634

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### Classifications

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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)

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### Categories

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

