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 PRODUCT-DETAILS

# OTDC315F02S

## OTDC315F02S DC Switch-disconnector




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**General Information**

Extended Product Type	OTDC315F02S
Product ID	1SCA160644R1001
EAN	6417019906027
Catalog Description	OTDC315F02S DC Switch-disconnector
Long Description	<p>A fully optimized side operated two-pole DC switch-disconnector for 1000V utility-scale photovoltaic power plants covering 315-630A current range. The new design offers both a size reduction and an increase in efficiency and performance.</p> <p>The two-pole side operated 1000V DC Switch helps manufacturers improve system efficiency. Measuring just 150mm wide and 122mm high, the compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters. Operation means on left or right side of the switches are available.</p> <p>Main characteristics for this particular OTDC type:          Disconnect single PV circuit. Approved according to IEC 60947-1, -3</p>

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**ABB EcoSolutions**

ABB EcoSolutions	Yes
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**Circular Value**

Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 59,09 %
End of Life Instructions	1SCC301112M0201
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

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## Eco Transparency

Environmental Product Declaration - EPD	1SCC301247D0201
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## 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

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## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85363090
Country of Origin	Finland (FI)

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## Popular Downloads

Data Sheet, Technical Information	1SCC301022C0201
Instructions and Manuals	1SCC301099M0201
Mechanical Drawings	OTDC250...630_F_02F.igs OTDC250...630_F_02F.stp 1SCC307765F0201 1SCC307766F0201
Wiring Diagram	1SCC301030K0201
Environmental Product Declaration - EPD	1SCC301247D0201
End of Life Instructions	1SCC301112M0201

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## 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	4.1 kg 8.9 lb

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## Technical

Connection Configuration	Single circuit 2a, 2b
Rated Operational Current DC-21B ( $I_e$ )	(1000 V) 315 A
Rated Operational Current DC-22B	(1000 V) 315 A
Rated Operational Current DC-PV1	(1000 V) 315 A
Rated Operational Current DC-PV2	(1000 V) 315 A
Conventional Free-air Thermal Current ( $I_{th}$ )	$\Theta = 40\text{ °C}$ 315 A
Rated Impulse Withstand Voltage ( $U_{imp}$ )	12 kV
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 10 kA
Power Loss	at Rated Operating Conditions per Pole 7 ... 8 W
Shaft Diameter	12 mm 0.47 in
Switches Operating Mechanism	Mechanism at the End of the Switch 02 (Left Side)
Position of Line Terminals	Top In - Bottom Out Bottom In - Top Out
Operating Mode	Side Operated
Standards	IEC 60947-1, -3
Mounting Type	Base Mounting
Number of Circuits	1
Terminal Type	Lug terminals
Terminal Width	30 mm 1.2 in
Utilization	Photovoltaic
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)

## Certificates and Declarations

CCC Certificate	CQC2019010302206498
Declaration of Conformity - CE	1SCC301227D2701
Declaration of Conformity - UKCA	1SCC301313D0201
DNV GL Certificate	1SCC301231D0201

## 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	4.3 kg 9.5 lb
Package Level 1 EAN	6417019906027

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## Classifications

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Object Classification Code	Q
ETIM 8	EC000216 - Switch disconnecter
ETIM 9	EC000216 - Switch disconnecter (low voltage)
eClass	V14.0 : 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

