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PRODUCT-DETAILS

OTDC32US4

OTDC32US4 PV Disconnect Switch

General Information

Extended Product Type	OTDC32US4
Product ID	1SCA136704R1001
EAN	6417019652160
Catalog Description	OTDC32US4 PV Disconnect Switch
Long Description	OTDC32US4 PV Disconnect Switch, Terminal bolt kit included, Handle and shaft need to be ordered separately, Base mounting, US single-wire break, UL 600 VDC 32 A double circuit, IEC 660 VDC 32 A double circuit, IEC 1000 VDC 20 A double circuit

ABB EcoSolutions

ABB Site Meeting Group Waste To Landfill Target	UL 2799 Zero Waste To Landfill Validation available

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658

2024/11/28   Subject to change without notice

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	1SCC301086M0204
Mechanical Drawings	otdc16-32u-us4.igs 1SCC307481F0001 1SCC307482F0001

Environmental

Degree of Protection	Front IP20
Pollution Degree	3

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85363030
Country of Origin	Estonia (EE)

Dimensions

Product Frame Size	XS
Product Net Width	54.5 mm 2.1 in
Product Net Height	89 mm 3.5 in
Product Net Depth / Length	87 mm 3.4 in
Product Net Weight	0.3 kg 0.6 lb

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	100 mm 3.9 in
Package Level 1 Depth / Length	64 mm 2.5 in
Package Level 1 Height	100 mm 3.9 in
Package Level 1 Gross Weight	0.3 kg 0.6 lb
Package Level 1 EAN	6417019652160

Technical

Cable Cross-Section	2.5 … 16 mm² 12 … 6 AWG
Conventional Free-air Thermal Current (I_{th})	Θ = 40 °C 63 A
Conventional Thermal Current (I_{the})	Fully Enclosed 50 A
Degree of Protection	Front IP20
Handle Type	Handle and shaft not included
Mounting Type	Base mounting, DIN-rail mounting
Number of Circuits	2
Number of Poles	4P
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)	0.4 … 0.8 N·m
Power Loss	at Rated Operating Conditions per Pole 0.35 W
Protection Type	UL508i RK5 fuselink max. 70A, IEC60947 gPV fuselink max. 80A
Rated Conditional Short-Circuit Current (I_{nc})	(1000 V DC) 10 kA
Rated Impulse Withstand Voltage (U_{imp})	8 kV
Rated Insulation Voltage (U_i)	1000 V
Rated Operational Current DC-21B (I_e)	(660 V) 32 A
Rated Operational Voltage	1000 V
Rated Short-Circuit Making Capacity (I_{cm})	(1000 V DC) 1 kA
Rated Short-time Withstand Current Low Voltage (I_{cw})	(1000 V DC) 1 kA for 1 s 1 kA
Recommended Screw Driver	Main Circuit Torx
Shaft Diameter	6 mm 0.24 in
Special Functions	US single-wire break
Standards	UL508i and IEC 60947-1, -3
Switches Operating Mechanism	Mechanism on Top of the Switch
Terminal Type	Screw Terminals
Tightening Torque	Main Circuit 1.2 … 1.4 N·m
Utilization	Photovoltaic
Utilization Category	Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B)
Wire Stripping Length	Main Circuit 78 … 11 mm

Technical UL/CSA

Maximum Operating Voltage	600Vdc, UL 508i
Ampere Rating	32A,600Vdc,UL508i
Wire Stripping Length	Main Circuit 78 … 11 mm
Recommended Screw	Main Circuit Torx

Driver

Tightening Torque	Main Circuit 1.2 … 1.4 N·m

Certificates and Declarations

CCC Certificate	CQC2012010302579872
Declaration of Conformity - CE	1SCC301192D2704
Declaration of Conformity - UKCA	1SCC301313D0201
DNV GL Certificate	1SCC301231D0201
UL Certificate	UL certificate OTDC16-32.pdf

Classifications

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