



 PRODUCT-DETAILS

DS301C C6 A30

Residual Current Circuit Breaker with Overcurrent Protection DS301C - 1P+N - 30 mA - 6 A - C - Type A



General Information

Extended Product Type:	DS301C C6 A30
Product ID:	2CSR255163R1064
EAN:	8012542360957
Catalog Description:	Residual Current Circuit Breaker with Overcurrent Protection DS301C - 1P+N - 30 mA - 6 A - C - Type A
Long Description:	The DS301C series is a 1P+N RCBO in one module width for the protection of end user single-phase circuits against overload and short-circuit currents, protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, protection against indirect contacts and additional protection against direct contacts
Display Name:	DS301C C6 A30

ABB EcoSolutions

ABB EcoSolutions:	Yes
EcoSolutions Profile:	9AKK108471A0996

Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 79.18 %
Material Resource Reduction (wt. %):	Design for Reduced Resource Consumption - 45 %
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
Sustainable Material Content in Packaging (wt. %):	Recycled Cardboard - 71.18 % Recycled Paper - 0 %
Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Extended Product Lifetime:	Product Durability
End Of Life Disassembling Instructions:	9AKK108469A2271
Environmental Product Declaration - EPD:	9AKK108468A8865

Technical

Type of Residual Current:	Type A
Test Voltage (Ut):	170 ... 264 V
Dielectric Test Voltage:	2.5 kV
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	6 kA
Rated Residual Breaking Capacity (I_{Δm}):	EN 61009-1 6000 A IEC 61009-1 4500 A
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	6 kA
Power Supply Connection:	Arbitrary
Contact Position Indication:	Red ON / Green OFF
Energy Limiting Class:	3
Electrical Endurance:	7000 cycle
Mechanical Endurance:	7000 cycle
Number of Protected Poles:	1
Number of Poles:	1P+N
Number of Modular Spacings per DIN Rail:	1
Fault Indication:	Blue Flag Below Toggle
Operating Characteristic:	Instantaneous
Position of Neutral Terminals:	Right
Tightening Torque:	1.2 N·m
Accessory Type:	Busbar Psc series, Padlock
Actuator Type:	Toggle
Housing Type:	Insulation group I - II, RAL 7035
Screw Terminal Type:	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Material:	Insulation Group II, Black, Sealable
Options Provided:	Screwless (Please check equivalent DSX301C)
Accessories Available:	No

Connecting Capacity:	Screw Clamp / Rigid 1 ... 10 mm ² Screw Clamp / With Insulated Ferrule 1 ... 6 mm ² Screw Clamp / Without Insulated Ferrule 1 ... 6 mm ² Screw Clamp / Flexible 1 ... 10 mm ²
Rated Cross-Section:	1 - Solid-Core 1.5 ... 16 mm ² 4 - Multi-Wired 1.5 ... 10 mm ²
Wire Stripping Length:	10 mm
Terminal Type:	Screw Terminals

Electrical

Tripping Characteristic:	C
Rated Operational Voltage:	acc. to IEC 60898-1 240 V
Rated Insulation Voltage (U_i):	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand Voltage (U_{imp}):	4 kV
Input Voltage Type:	AC
Rated Current (I_n):	6 A
Rated Residual Current:	30 mA
Rated Short-Circuit Capacity:	6 kA
Rated Frequency (f):	50 Hz
Power Loss:	Average per Pole 0.78 W Phase Pole 1.47 W Neutral Pole 0.09 W Total 1.56 W
Overvoltage Category:	III

Material Compliance

RoHS Declaration:	9AKK108466A7779
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date:	20241112
REACH Declaration:	9AKK108467A9482
REACH Information:	True - contains substances > 0.1 mass percentage
REACH Date:	20240429
Conflict Minerals Reporting Template (CMRT):	9AKK108468A3363
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B:	Business To Consumer

Environmental

Ambient Air Temperature:	Operation -25 ... 55 °C
Reference Ambient Air Temperature:	30 °C
Degree of Protection:	IP20 IP40

Pollution Degree:	2
Environmental Conditions:	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations:	20 Cycles with Load 0.8 In: 1g or 1mm 50 ... 150 ... 5 Hz
Resistance to Shock acc. to IEC 60068-2-27:	25g 2 shocks 13 ms

Dimensions

Width in Number of Modular Spacings:	1
Product Net Width:	17.6 mm
Product Net Height:	92 mm
Product Net Depth / Length:	68 mm
Product Net Weight:	110 g
Built-In Depth (t₂):	17.6 mm

Engineering

EPLAN Data:	9AAF618237_EPLAN
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Ordering

Package Level 1 Units:	box 1 piece
Package Level 1 Gross Weight:	0.127 kg
E-Number (Finland):	3214083
E-Number (Norway):	1682792
E-Number (Sweden):	2160184

Certificates and Declarations

CB Certificate:	9AKK107991A9485
CCC Certificate:	9AKK108467A0379
CEBEC Certificate:	9AKK108466A9450
Declaration of Conformity - CE:	9AKK108466A7779
KEMA Certificate:	9AKK108467A0378
SEV Certificate:	9AKK108467A0377
VDE Certificate:	9AKK108466A9224

Installation

Instructions and Manuals:	9AKK107991A9407
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Mounting Type:	DIN-Rail
Mounting Position:	Any

Popular Downloads

Data Sheet, Technical Information:	9AKK108466A9620
Mechanical Drawings:	9AKK107991A9486 9AKK107991A9487

External Classifications and Standards

ETIM 9:	EC000905 - Earth leakage circuit breaker
ETIM 10:	EC000905 - Earth leakage circuit breaker
UNSPSC:	39121601
eClass:	V11.0 : 27142207
IDEA Granular Category Code (IGCC):	4875 >> Residual current circuit breaker (RCCB)
Object Classification Code:	F
Standards:	IEC/EN 61009-1 IEC/EN 61009-2-1

Accessories

Identifier	Description	Qty	Type	Unit Of Measure
GJF1101903R0004	SA 1E LOCK ADAPTOR	1	SA1E	piece
GJF1101903R0002	SA 2 Padlock with 2 keys	1	SA2	piece
GJF1109999R0001	SA2 PADLOCK	1	SA2I	piece
GJF1101903R0003	SA3 Locking Device, Set incl. padlock	1	SA3	piece
2CDL210331R1012	Busbar PSc 1/24/10 N 12 Modules, 24Pins,10mm ²	1	PSc 1/24/10 N	piece
2CDL210331R1060	Busbar PSc 1/114/10 N 1 meter long, 114Pins,10mm ²	1	PSc 1/120/10 N	piece
2CDL230331R1012	Busbar PSc 3/24/10 N 12 Modules, 24Pins,10mm ²	1	PSc 3/24/10 N	piece
2CDL230331R1060	Busbar PSc 3/114/10 N 1 meter long, 114Pins,10mm ²	1	PSc 3/120/10 N	piece
2CDL200331R0003	End Cap for PSc Busbars	1	PSc-END	piece
2CDL200331R0013	Shock protection cap for PSc Busbars	1	BSKc	piece

Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > Residual Current Devices RCDs > Residual Current Circuit Breakers with Overcurrent Protection RCBO

