PRODUCT-DETAILS

DS301C C10 A30

DS301C C10 A30 Residual Current Circuit Breaker with Overcurrent Protection

General Information

Extended Product Type	DS301C C10 A30
Product ID	2CSR255163R1104
EAN	8012542361053
Catalog Description	DS301C C10 A30 Residual Current Circuit Breaker with Overcurrent Protection
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

Technical

Standards	IEC/EN 61009-1 IEC/EN 61009-2-1
Tripping Characteristic	C
Type of Residual Current	A type
Rated Operational Voltage	acc. to IEC 60898-1 240 V
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 500 V
Test Voltage (Ut)	170 ... 264 V
Rated Impulse Withstand Voltage (U_{imp})	4 kV

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Dielectric Test Voltage	2.5 kV
Primary Rated Impulse Withstand Voltage	4 kV
Input Voltage Type	AC
Rated Current (I_n)	10 A
Rated Residual Current	30 mA
Rated Short-Circuit Capacity	6 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	6 kA
Rated Residual Breaking Capacity (IΔm)	EN 61009-1 6000 A IEC 61009-1 4500 A
Rated Service Short-Circuit Breaking Capacity (I_{cs})	6 kA
Leakage Current Type	A
Rated Frequency (f)	50 … 60 Hz
Power Loss	Average per Pole 0.75 W Phase Pole 1.25 W Neutral Pole 0.25 W Total 1.5 W
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	1
Number of Modular Spacings per DIN Rail	1
Fault Indication	Blue flag below toggle
Operating Characteristic	Instantaneous
Overvoltage Category	III
Position of Neutral Terminals	Right
Tightening Torque	1.2 N·m
Accessory Type	Busbar Psc series, Padlock
Actuator Type	Toggle - Insulation group II, Black RAL 9005, sealable in ON-OFF positions
Housing Type	Insulation group I - II, RAL 7035
Mounting Type	DIN-Rail
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Mounting Position	Any
Accessories Available	No
Cable Size	16 mm²
Connecting Capacity	Busbar 10 ... 10 mm² Rigid 1.5 ... 16 mm² Flexible 1.5 ... 16 mm²
Rated Cross-Section	1 - Solid-Core 1.5 … 16 mm² 4 - Multi-Wired 1.5 … 10 mm²
Wire Stripping Length	10 mm
Terminal Type	Screw Terminals

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Subject to change without notice

Material Compliance

RoHS Information	9AKK108466A7779
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20220727
REACH Declaration	9AKK108467A9482
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental

Ambient Temperature	-25 ... 55 °C
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	0.0176 m
Product Net Height	0.092 m
Product Net Depth / Length	0.068 m
Product Net Weight	0.110 kg
Built-In Depth (t_2)	17.6 mm

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.127 kg
E-Number (Finland)	3214084
E-Number (Sweden)	2160186

Certificates and Declarations

CB Certificate	9AKK107991A9485
CCC Certificate	9AKK108467A0379
CEBEC Certificate	9AKK108466A9450
Declaration of Conformity - CE	9AKK108466A7779
KEMA Certificate	9AKK108467A0378

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SEV Certificate	9AKK108467A0377
VDE Certificate	9AKK108466A9224

Installation

Instructions and Manuals	9AKK107991A9407

Popular Downloads

Data Sheet, Technical Information	9AKK108466A9620
Mechanical Drawings	9AKK107991A9486 9AKK107991A9487
EPLAN Data	9AKK107991A9410

Classifications

ETIM 8	EC000905 - Earth leakage circuit breaker
ETIM 9	EC000905 - Earth leakage circuit breaker
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	85363010
eClass	V11.0 : 27142207
Object Classification Code	F

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
GJF1101903R0004	SA1E Terminals and Installation Material	SA1E	1	piece
GJF1101903R0002	SA2 Terminals and Installation Material	SA2	1	piece
GJF1109999R0001	SA2I Terminals and Installation Material	SA2I	1	piece
GJF1101903R0003	SA3 Terminals and Installation Material	SA3	1	piece
2CDL210331R1012	PSc 1/24/10 N Busbar	PSc 1/24/10 N	1	piece
2CDL210331R1060	PSc 1/120/10 N Busbar	PSc 1/120/10 N	1	piece
2CDL230331R1012	PSc 3/24/10 N Busbar	PSc 3/24/10 N	1	piece
2CDL230331R1060	PSc 3/120/10 N Busbar	PSc 3/120/10 N	1	piece
2CDL200331R0003	PSc-END End Cap	PSc-END	1	piece
2CDL200331R0013	BSKc Protection Cover	BSKc	1	piece
2CDL200001R2506	AST25/27QS Feeder Terminal	AST25/27QS	1	piece

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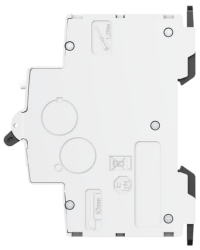
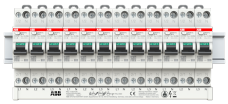
Categories

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





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