



PRODUCT-DETAILS

DS301C L C20 A30

DS301C L C20 A30 Residual Current Circuit Breaker with Overcurrent Protection



General Information	
Extended Product Type	DS301C L C20 A30
Product ID	2CSR245163R1204
EAN	8012542353058
Catalog Description	DS301C L C20 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	Type A
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
Dielectric Test Voltage	2.5 kV
Primary Rated Impulse Withstand Voltage	4 kV
Input Voltage Type	AC
Rated Current (I _n)	20 A
Rated Residual Current	30 mA
Rated Short-Circuit Capacity	6 kA
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	4.5 kA
Rated Residual Breaking Capacity (I _{Δm})	EN 61009-1 4500 A IEC 61009-1 4500 A
Rated Service Short-Circuit Breaking Capacity (I _{cs})	4.5 kA
Leakage Current Type	A
Rated Frequency (f)	50 ... 60 Hz
Power Loss	Average per Pole 1.7 W Phase Pole 2.6 W Neutral Pole 0.8 W Total 3.4 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+N
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 mm ²
Connecting Capacity	Busbar 10 ... 10 mm ² Rigid 1.5 ... 16 mm ² Flexible 1.5 ... 16 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

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	1 piece
Package Level 1 Gross Weight	0.127 kg

Certificates and Declarations	
CB Certificate	9AKK107991A9485
CCC Certificate	9AKK108467A0379
Declaration of Conformity - CE	9AKK108466A7779
KEMA Certificate	9AKK108467A0378
SEV Certificate	9AKK108467A0377

Installation	
Instructions and Manuals	9AKK107991A9407

Popular Downloads	
Data Sheet, Technical Information	9AKK108466A9617
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 2 phase	PSc 1/24/10 N		1	piece
2CDL210331R1060	PSc 1/120/10 N Busbar 2 phase	PSc 1/120/10 N		1	piece
2CDL230331R1012	PSc 3/24/10 N Busbar 4 phase	PSc 3/24/10 N		1	piece
2CDL230331R1060	PSc 3/120/10 N Busbar 4 phase	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

Categories

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

