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PRODUCT-DETAILS

DS202CR L C16 AC30

DS202CR L C16 AC30 Residual Current Circuit Breaker with Overcurrent Protection



General Information	
Extended Product Type	DS202CR L C16 AC30
Product ID	2CSR742040R1164
EAN	4022903033363
Catalog Description	DS202CR L C16 AC30 Residual Current Circuit Breaker with Overcurrent Protection
Long Description	The DS202CR series RCBO is a 2P in two-modules device 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.

Eco Transparency	
Environmental Product	9AKK108467A5738
Declaration - EPD	

Technical	
Standards	IEC/EN 61009-1
	IEC/EN 61009-2-1

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Type Residual Curent Type AC Rated Operational acc. to IEC 60898-1 230 V Voltage Rated Insulation Voltage acc. to IEC 60898-1 230 V Voltage Rated Impulse 4 kV VVIV Withstand Voltage (Ump) 5 V Voltage Type AC Input Voltage Type AC AC Rated Current (In) 16 A Ac Rated Short-Circuit 4.5 kA AC Capacity (Inc.) 4.5 kA AC Rated Strike Short-Circuit 4.5 kA AC Circuit Breaking 4.5 kA AC Capacity (Inc.) 4.5 kA AC Rated Swince Short-Circuit 4.5 kA AC Circuit Breaking 4.5 kA AC Capacity (Inc.) 4.5 kA AC Rated Evince Short-Circuit 4.5 kA AC Circuit Breaking 4.5 kA AC Capacity (Inc.) 4.5 kA AC Rated Evince Inc. 4.5 kA AC Rated Evince Inc. 4.5 kA AC Rated Evince Inc. 5.0 kE	Tripping Characteristic	С
Voltage acc. to IEC/EN 6064-1 440 V QU) acc. to IEC/EN 6064-1 440 V QU) acc. to IEC/EN 6064-1 440 V Withstand Voltage (Jung) 4 V Withstand Voltage (Jung) AC Rated Current (In) AC Rated Short-Circuit 4.5 kA Capacity (Ica) 4.5 kA Rated Illimate Short-Circuit (Freaking) 4.5 kA Capacity (Ica) 4.5 kA Rated Service Short-Circuit (Freaking) 4.5 kA Capacity (Ica) 4.5 kA Rated Juliant Short-Circuit (Freaking) 4.5 kA Capacity (Ica) 4.5 kA Rated Frequency (Ire) 4.5 kA Reader (Frequency (Ire) 4.5 kA Prequency (Ire) 5.0 Hz Power Loss 4.20 W Power Supply Arbitrary Connection 1.00 Mz Electrical Endurance 1.0000 operations Number of Protected 2 Poles 2 Number of Poles 2 Fault Indication Blue flag on window <t< th=""><th>Type of Residual Current</th><th>Type AC</th></t<>	Type of Residual Current	Type AC
Care	· · · · · · · · · · · · · · · · · · ·	acc. to IEC 60898-1 230 V
Rated Impulse Withstand Voltage (Ump) 4 kV Withstand Voltage (Ump) Input Voltage Type AC Rated Current (In) 16 A Rated Short-Circuit 30 mA Rated Short-Circuit 6 kA Capacity (Inc) 6 kA Rated Short-Circuit freaking 6 kA Circuit Breaking 4 5 kA Capacity (Inc) 4 5 kA Rated Service Short- 4 5 kA Crouit Breaking 4 5 kA Capacity (Inc) 4 5 kA Maximum Surge Current 4 5 kA Leakage Current Type A 6 kA Frequency (f) 5 0 Hz Requency (f) 5 0 Hz Requency (f) 5 0 Hz Power Loss 4 3 kM Representing Class 3 Electrical Enduranc 10000 operations Number of Potested 2 2 Poles 2		acc. to IEC/EN 60664-1 440 V
Rated Current (In) 16 A Rated Rasidual Current 30 mA Rated Short-Circuit 4.5 kA Capacity 6 kA Circuit Breaking 4.5 kA Capacity (Inc) 4.5 kA Rated Service Short-Circuit Breaking 4.5 kA Capacity (Inc) 4.5 kA Maximum Surge Current 0.25 kA Leakage Current Type AC Requency (f) 5.0 kz Red Frequency (f) 5.0 kz Reventous 4.20 kg Power Loss 4.20 kg Power Loss 4.20 kg Power Supply 4.0 kg Certain Endurance 10000 operations Electrical Endurance 10000 operations Mumber of Protected 2 Poles 2 Number of Protected 2 Poles 2 Number of Poles 2 Fault Indication Blue flag on vindow Operating Characteristic Instantaneous Oevotitage Category Instantaneous Pol	Rated Impulse Withstand Voltage (U _{imp}	4 kV
Rated Current (In) 16 A Rated Rasidual Current 30 mA Rated Short-Circuit 4.5 kA Capacity 6 kA Circuit Breaking 4.5 kA Capacity (Inc) 4.5 kA Rated Service Short-Circuit Breaking 4.5 kA Capacity (Inc) 4.5 kA Maximum Surge Current 0.25 kA Leakage Current Type AC Requency (f) 5.0 kz Red Frequency (f) 5.0 kz Reventous 4.20 kg Power Loss 4.20 kg Power Loss 4.20 kg Power Supply 4.0 kg Certain Endurance 10000 operations Electrical Endurance 10000 operations Mumber of Protected 2 Poles 2 Number of Protected 2 Poles 2 Number of Poles 2 Fault Indication Blue flag on vindow Operating Characteristic Instantaneous Oevotitage Category Instantaneous Pol	Input Voltage Type	AC
Rated Short-Circuit 4.5 kA Capacity Capacity (Sapacity (Inc.) 6 kA Capacity (Inc.) Rated Ultimate Short-Circuit Breaking Capacity (Inc.) 4.5 kA Circuit Breaking Capacity (Inc.) Rated Service Short-Circuit Breaking Capacity (Inc.) 4.5 kA Circuit Breaking Capacity (Inc.) Maximum Surge Current 0.25 kA Leakage Current Type AC Capacity (Inc.) Rated Frequency (Inc.) 50 Hz Power Capacity (Inc.) 50 Hz Power Capacity (Inc.) Rated Frequency (Inc.) 50 Hz Power Capacity (Inc.) 4.20 W Power Supply Capacity (Inc.) Power Supply Connection 3		16 A
Capacity 6 ka Circuit Breaking 4 5 ka Capacity (Iv.) 4 5 ka Rated Service Short- 4 5 ka Capacity (Iv.) 6 ka Maximum Surge Current 0.25 kA Leakage Current Type AC Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Rower Loss 4.20 W Power Supply Arbitrary Connection 10000 operations Electrical Endurance 10000 operations Mechanical Endurance 10000 operations Number of Protected 2 Poles 2 Full Indication Blue flag on window Operating Characteristic Blue flag on window Overvoltage Category Ill Postion of Neutral Right Erriling Forque 4 km Accessory Type Auxiliary contact Earthing Switch Type Undelayed Mounting Position Avx Number of Eatteries 0 Connecting Capacity Busbara 1 10 mm		30 mA
Rated Ultimate Short- 6 kA Circuit Breaking 4.5 kA Circuit Breaking 4.5 kA Circuit Breaking		4.5 kA
Rated Service Short- Circuit Breaking 4.5 kA Circuit Breaking Capacity (Ic.g) Maximum Surge Current 0.25 kA Leakage Current Type AC Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Arbitrary Connection 3 Electrical Endurance 10000 operations Mechanical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Protected 22 Poles 2 Number of Protected 8 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral 8 kght Terminals 4 km Accessory Type Auxiliary contact Signal contact / auxiliary contact 5 kght Mounting Type Instantaneous Mounting Position Any Accessories Available </td <td>Rated Ultimate Short- Circuit Breaking</td> <td>6 kA</td>	Rated Ultimate Short- Circuit Breaking	6 kA
Maximum Surge Current Type 0.25 kA Leakage Current Type A C Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Arbitrary Connection 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Mechanical Endurance 20000 operations Number of Protected 2 Poles 2 Number of Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N-m Accessory Type Signal contact / auxiliary contact Earthing Switch Type Undelayed Mounting Type Undelayed Mounting Type Undelayed Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² <td>Rated Service Short- Circuit Breaking</td> <td>4.5 kA</td>	Rated Service Short- Circuit Breaking	4.5 kA
Leakage Current Type AC Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Arbitrary Connection 3 Energy Limiting Class 3 Electrical Endurance 10000 operations Number of Protected 20000 operations Number of Protected 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 -		0.25 kA
Rated Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Arbitrary Connection 3 Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Protected 2 Poles 2 Number of Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 Nm Accessory Type Signal contact / auxiliary contact Earthing Switch Type Undelayed Mounting Type Undelayed Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135	-	AC
Power Loss 4.20 W Power Supply Arbitrary Connection 3 Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Protected 2 Poles 2 Number of Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overyoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N-m Accessory Type Auxiliary contact Earthing Switch Type Undelayed Mounting Type Undelayed Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Read Cross-Section 1 - Solid-Core 135 mm² A - Multi-Wired 125 mm	Frequency (f)	50 Hz
Power Supply Connection Substitution Class Substitution Subs	Rated Frequency (f)	50 Hz
Connection 3 Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Protected Poles 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible L25 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 135 mm² Action 4 - Multi-Wired 125 mm²	Power Loss	4.20 W
Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Protected Poles 2 Number of Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rigid Solid 135 mm² Read Cross-Section 1 - Solid-Core 135 mm² 4 - Multi-Wired 125 mm²	11.5	Arbitrary
Mechanical Endurance 20000 operations Number of Protected 2 Poles 2 Number of Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N-m Accessory Type Auxiliary contact Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Energy Limiting Class	3
Number of Protected Poles Number of Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category III Position of Neutral Right Terminals Left Tightening Torque 4 N-m Accessory Type Auxiliary contact Signal contact /	Electrical Endurance	10000 operations
Poles Number of Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² At - Multi-Wired 1 25 mm²	Mechanical Endurance	20000 operations
Fault IndicationBlue flag on windowOperating CharacteristicInstantaneousOvervoltage CategoryIIIPosition of NeutralRightTerminalsLeftTightening Torque4 N·mAccessory TypeAuxiliary contactEarthing Switch TypeUndelayedMounting TypeDIN-RailMounting PositionAnyAccessories AvailableYesNumber of Batteries0Cable Size35 mm²Connecting CapacityBusbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm²Rated Cross-Section1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²		2
Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Terminals Right Eff Tightening Torque 4 N-m Accessory Type Auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² A - Multi-Wired 1 25 mm²	Number of Poles	2
Overvoltage Category III Position of Neutral Terminals Right Eleft Eleminals Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Fault Indication	Blue flag on window
Position of Neutral Right Terminals Left Left Tightening Torque 4 N·m Accessory Type Signal contact / Signal contact / Signal contact / Signal contact / auxiliary contact Signal contact / auxiliary contact Description Switch Type Undelayed Mounting Type Undelayed Mounting Position Any Accessories Available Yes Number of Batteries 0 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rigid Solid 135 mm² Acted Cross-Section 1- Solid-Core 1 35 mm² 4- Multi-Wired 1 25 mm²	Operating Characteristic	Instantaneous
Terminals Terminals Tightening Torque Accessory Type Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact DIN-Rail Mounting Type Mounting Position Accessories Available Number of Batteries Connecting Capacity Rated Cross-Section Auxiliary contact Signal contact / auxiliary contact / auxiliary contact Signal contact / auxiliary contact /	Overvoltage Category	III
Tightening Torque Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact DIN-Rail Mounting Type Mounting Position Accessories Available Number of Batteries Connecting Capacity Connecting Capacity Rated Cross-Section A Number of Batteries Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² A - Multi-Wired 1 25 mm²		Right
Accessory Type Auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Mounting Type DIN-Rail Mounting Position Accessories Available Number of Batteries Connecting Capacity Rated Cross-Section Auxiliary contact Signal contact / auxiliary contact Undelayed DIN-Rail Any Accessories Available Yes Number of Batteries 0 35 mm² Flexible 125 mm² Rigid Solid 135 mm² A - Multi-Wired 1 25 mm² A - Multi-Wired 1 25 mm²	Terminals	Left
Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Tightening Torque	4 N⋅m
Mounting Type Mounting Position Any Accessories Available Number of Batteries Connecting Capacity Connecting Capacity Rated Cross-Section DIN-Rail Any Any Any Any Any Any Any An	Accessory Type	
Mounting Position Any Accessories Available Number of Batteries O Cable Size Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Earthing Switch Type	Undelayed
Accessories Available Number of Batteries 0 Cable Size Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Mounting Type	DIN-Rail
Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²		Any
Cable Size Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Accessories Available	Yes
Connecting Capacity Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Number of Batteries	
$ \begin{array}{c} \text{Flexible 125 mm}^2 \\ \text{Rigid Solid 135 mm}^2 \\ \text{Rated Cross-Section} & 1 - \text{Solid-Core 1} \dots 35 \text{ mm}^2 \\ 4 - \text{Multi-Wired 1} \dots 25 \text{ mm}^2 \\ \end{array} $	Cable Size	35 mm²
4 - Multi-Wired 1 25 mm²	Connecting Capacity	Flexible 125 mm²
Wire Stripping Length 11 mm	Rated Cross-Section	
	Wire Stripping Length	11 mm

Material Compliance

RoHS Information 9AKK108466A5162

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RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20220211
REACH Declaration	9AKK108466A9708
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental	
Ambient Air Temperature	Operation -5 55 °C
Degree of Protection	IP20
Pollution Degree	3
Environmental Conditions	28 cycle with 55 °C / 90-96 % and 25 °C / 95-100 %

Dimensions	
Width in Number of Modular Spacings	2
Product Net Width	36 mm
Product Net Height	86 mm
Product Net Depth / Length	72 mm
Product Net Weight	0.220 kg
Built-In Depth (t ₂)	72 mm

Ordering	
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.245 kg

Certificates and Declarations	
ABS Certificate	9AKK108467A7630
Declaration of Conformity - CE	9AKK108466A5162
IMQ Certificate	9AKK108467A6464
NF Certificate	9AKK108467A7735

Installation	
Instructions and	9AKK108466A5165
Manuals	

Popular Downloads	
Data Sheet, Technical	9AKK108467A1864
Information	

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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	F
Code	

Accessories				
Identifier	Description	Туре	Quantity	Unit Of Measure
2CDS200931R0001	G2C-H6-L+R Signal / Auxiliary Contact	G2C-H6-L+R	1	piece
2CDS200932R0001	G2C-S/H6-L+R Signal / Auxiliary Contact G	2C-S/H6-L+R	1	piece
2CDS200932R0011	G2C-S/H6-L+R-KL Signal / Auxiliary Contact G	2C-S/H6-L+R -KL	1	piece

Categories

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





