

PRODUCT-DETAILS

DS202CR M C16 APR30 DS202CR M C16 APR30 Residual Current Circuit Breaker with Overcurrent Protection



General Information	
Extended Product Type	DS202CR M C16 APR30
Product ID	2CSR772440R1164
EAN	4022903035251
Catalog Description	DS202CR M C16 APR30 Residual Current Circuit Breaker with Overcurrent Protection
The DS202CR series RCBO is a 2P in two-modules device for the protect single-phase circuits against overload and short-circuit currents. Protect effects of sinusoidal alternating and direct pulsating earth fault currents. Protect indirect contacts and additional protection against direct contacts (with sens	
Eco Transparency	
Environmental Product Declaration - EPD	9AKK108467A5738
Technical	
Standards	IEC/EN 61009-1 IEC/EN 61009-2-1
Tripping Characteristic	С
Type of Residual Current	A type

Rated Impulse Withstand Voltage (U _{imp}) Input Voltage Type AC Rated Current (I _n) 16 A Rated Residual Current 30 mA Rated Short-Circuit 10 kA Capacity Rated Ultimate Short- Circuit Breaking Capacity (I _{cu}) Rated Service Short- Circuit Breaking Capacity (I _{cu}) Rated Service Short- Circuit Breaking Capacity (I _{cu}) Rated Service Short- Circuit Breaking Capacity (I _{cu}) Rated Service Short- Circuit Breaking Capacity (I _{cu}) As kA Leakage Current Type A	Rated Operational Voltage	acc. to IEC 60898-1 230 V	
Voltage (Varge) AC Input Voltage Type AC Rated Current (In) 18 A Rated Residual Current 30 mA Rated Short-Circuit 10 kA Capacity 10 kA Rated Short-Circuit Faceking Capacity (In) 10 kA Rated Service Short-Circuit Feaking Capacity (In) 7.5 kA Circuit Breaking Capacity (In) 7.5 kA Maximum Surge Current 3 kA Leakage Current Type A Frequency (I) 50 Hz Rated Frequency (I) 50 Hz Power Loss 4.20 W Power Loss 4.20 W Power Supply Connection Arbitrary Energy Limiting Class 3 Energy Limiting Class 2 Energy Limiting Class 2 Mumber of Poles 2 Number of Poles 2 Number of Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Operating Characteristic Instantaneous (APR High Immunity)	Rated Insulation Voltage (U _i)	acc. to IEC/EN 60664-1 440 V	
Rated Current (In) 16 A Rated Residual Current 30 mA Rated Residual Current 10 kA Capacity 10 kA Capacity 10 kA Capacity 10 kA Circuit Breaking Capacity (Ing.) 7.5 kA Circuit Breaking Capacity (Ing.) 7.5 kA Maximum Surge Current 3 kA Leakage Current Type A Reted Frequency (f) 50 Hz Reted Frequency (f) 50 Hz Reted Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Connection Arbitrary Reepty Limiting Class 3 Electrical Endurance 10000 operations Murbar of Poles 2 Number of Poles 2 Number of Protected 2 Poles 1 Fault Indication Bue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category III Position of Neutral Signal contact Availating contact Earthing	Rated Impulse Withstand Voltage (U _{imp})	4 kV	
Rated Residual Current 30 mA Rated Short-Circuit 10 kA Capacity 10 kA Rated Ultimate Short-Circuit Freaking Capacity (10 mg) 10 kA Rated Service Short-Circuit Freaking Capacity (10 mg) 7.5 kA Rated Service Short-Circuit Freaking Capacity (10 mg) 3 kA Leakage Current Type A Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 10000 operations Number of Poles 2 Polis 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Over-otige Category Ill Position of Neutral Signal context Valuation Terminals L	Input Voltage Type	AC	
Rated Short-Circuit 10 kA Capacity 10 kA Circuit Breaking Capacity 7.5 kA Circuit Breaking Capacity 7.5 kA Circuit Breaking Capacity 3 kA Leakage Current 3 kA Leakage Current Type A Frequency (f) 50 Hz Rated Frequency (m) 50 Hz Power Loss 4.20 W Power Loss 3 Electrical Endurance 10000 operations Machinary 3 Electrical Endurance 10000 operations Mumber of Poles 2 Number of Poles 2 Number of Protected 2 Poles 10000 operations Ratification Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Operating Characteristic Instantaneous (APR High Immunity) Orevoltage Category Instantaneous (APR High Immunity) Position of Neutral Right Tightening Torque A. Man Accessory Type Signal contact / auxiliary contact<	Rated Current (I _n)	16 A	
Capacity 10 kA Circuit Breaking Capacity 7.5 kA Circuit Breaking Capacity 7.5 kA Circuit Breaking Capacity 8.5 kA Circuit Breaking Capacity 3 kA Leakage Current 3 kA Leakage Current Type A 5 kB Retad Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Connection A 100 Mz Hz Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Protected 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Overvoltage Category Ill Overvoltage Category Ill Overvoltage Category A Nem Polish of Neutral Signal contact / sudilary contact Earthing Switch Type Short-Time Dela	Rated Residual Current	30 mA	
Circuit Breaking Capacity (1 _{cac}) 7.5 kA Alzed Service Short-Circuit Breaking Capacity (1 _{cac}) 7.5 kA Circuit Breaking Capacity (1 _{cac}) 3 kA Leakage Current Type A Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Connection Abitrary Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Protected Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Right Terminals Left Ifphening Torque 4 N·m Accessory Type Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes	Rated Short-Circuit Capacity	10 kA	
Circuit Breaking Capacity (Ic.) 3 kA Maximum Surge Current 3 kA Leakage Current Type A Frequency (f) 50 Hz Rated Frequency (g) 50 Hz Power Loss 4.20 W Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 200000 operations Number of Poles 2 Number of Protected 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Postion of Neutral Terminals Right Terminals Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Short-Time Delayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 35 mm²	Rated Ultimate Short- Circuit Breaking Capacity (I _{cu})	10 kA	
Leakage Current Type A Frequency (f) 50 Hz Rated Frequency (g) 50 Hz Power Loss 4.20 W Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 100000 operations Mechanical Endurance 200000 operations Mumber of Poles 2 Number of Protected 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Right Terminals Terminals 4 Nem Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed Mounting Type DIN-Rait Mounting Position Any Accessories Available Yes Number of Batteries 3 5 mm² Cable Size 3 5 mm² Cable Size 3 5 mm² <	Rated Service Short- Circuit Breaking Capacity (I _{cs})	7.5 kA	
Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Protected 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Terminals Left Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed Mounting Type DIN-Rail Mounting Type Short-Time Delayed Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm²	Maximum Surge Current	3 kA	
Rated Frequency (f) 50 Hz Power Loss 4.20 W Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Protected Poles 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed 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 4 - Multi-Wired 1	Leakage Current Type	A	
Power Loss 4.20 W Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Protected 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category III Position of Neutral Right Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Signal contact / auxiliary contact Earthing Switch Type DIN-Rail 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 Rigld Solid 135 mm² Rigld Solid 135 mm² Rigld Solid 1	Frequency (f)	50 Hz	
Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Protected 2 Poles 8 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Short-Time Delayed Mounting Type DIN-Rail Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 110 mm² Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² A- Multi-Wired 1 25 mm² <td>Rated Frequency (f)</td> <td>50 Hz</td>	Rated Frequency (f)	50 Hz	
Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 200000 operations Number of Poles 2 Number of Protected 2 Poles 3 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Right Right Terminals 1 Tightening Torque Auxiliary contact Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed Mounting Type DIN-Rail Mounting Position Any Accessories Available Yes Number of Batteries 0 Cable Size 35 mm² Connecting Capacity Busbar 1010 mm² Rigid Solid 135 mm² Rigid Solid 135 mm² Rigid Solid 135 mm² 150lid-Core 135 mm² Rigid Solid 135 mm² 150lid-Core 135 mm	Power Loss	4.20 W	
Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Protected Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Terminals Right Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Short-Time Delayed 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-Wrired 1 25 mm²	Power Supply Connection	Arbitrary	
Mechanical Endurance 20000 operations Number of Poles 2 Number of Protected Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Terminals Right Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Short-Time Delayed 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 Poles 2 Number of Protected Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category Ill Position of Neutral Terminals Right Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed 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	Electrical Endurance	10000 operations	
Number of Protected Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category III Position of Neutral Right Terminals Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed 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	Mechanical Endurance	20000 operations	
Poles Fault Indication Blue flag on window Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category III Position of Neutral Terminals Right Terminals Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed 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	Number of Poles	2	
Operating Characteristic Instantaneous (APR High Immunity) Overvoltage Category III Position of Neutral Terminals Right Terminals Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed 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 135 mm² 4 - Multi-Wired 125 mm² 4 - Multi-Wired 125 mm²		2	
Overvoltage Category III Position of Neutral Terminals Right Terminals Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed 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 Terminals Right Terminals Tightening Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Short-Time Delayed 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 Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Operating Characteristic	Instantaneous (APR High Immunity)	
Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Short-Time Delayed 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	Overvoltage Category	III	
Accessory Type Auxiliary contact Signal contact / auxiliary contact Mounting Type Short-Time Delayed DIN-Rail Mounting Position Any Accessories Available Yes 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			
Earthing Switch Type Short-Time Delayed 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 Accessories Available Yes 35 mm² Busbar 1010 mm² Flexible 125 mm² Rigid Solid 135 mm² 4 - Multi-Wired 1 25 mm²	Accessory Type	•	
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 Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Earthing Switch Type	Short-Time Delayed	
Accessories Available Number of Batteries Cable Size Connecting Capacity Busbar 1010 mm² Flexible 125 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	Mounting Position	Any	
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	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	0	
Flexible 125 mm² Rigid Solid 135 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Cable Size	35 mm²	
Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Connecting Capacity	Flexible 125 mm²	
Wire Stripping Length 11 mm	Rated Cross-Section	1 - Solid-Core 1 35 mm²	
	Wire Stripping Length	11 mm	

Environmental	
Ambient Air Temperature	Operation -25 +55 °C
	Storage -40 +70 °C
Degree of Protection	IP20
Pollution Degree	3
Environmental Conditions	28 cycle with 55 °C / 90-96 % and 25 °C / 95-100 %
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Information	9AKK108466A5162
REACH Declaration	9AKK108466A9708
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
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	
Minimum Order Quantity	1 piece
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	9AKK108467A6462
NF Certificate	9AKK108467A7737
VDE Certificate	9AKK108467A7823
Installation	

Data Sheet, Technical	9AKK108467A1864
Information	

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		
2CDS200931R0001	G2C-H6-L+R Signal / Auxiliary contact G2C-H6-L+R	. 1	piece		
2CDS200932R0001	G2C-S/H6-L+R Signal / Auxiliary contact G2C-S/H6-L+R	. 1	piece		
2CDS200932R0011	G2C-S/H6-L+R-KL Signal / Auxiliary contactKL	1	piece		

Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Modular\ DIN\ Rail\ Products \rightarrow Residual\ Current\ Devices\ RCDs \rightarrow Residual\ Current\ Circuit\ Breakers\ with\ Overcurrent\ Protection\ RCBO \rightarrow DS202CR\ M$





