

PRODUCT-DETAILS

DS202CR M B10 A300 DS202CR M B10 A300 Residual Current Circuit Breaker with Overcurrent Protection



General Information		
Extended Product Type	DS202CR M B10 A300	
Product ID	2CSR772140R3105	
EAN	4022903034674	
Catalog Description	DS202CR M B10 A300 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 (with sensitivity = 30 mA).	
Eco Transparency		
Environmental Product Declaration - EPD	9AKK108467A5738	
Technical		
Standards	IEC/EN 61009-1 IEC/EN 61009-2-1	
Tripping Characteristic	В	
Type of Residual Current	A type	

Rated Insulation Voltage (U) Rated Impulse Withstand Voltage (Une) Input Voltage Type Rated Current (L) Rated Residual Current Rated Residual Current Rated Short-Circuit Capacity Rated Ullimate Short-Circuit Capacity Rated Ullimate Short-Circuit Capacity Rated Ullimate Short-Circuit Capacity Rated Pesidual Current Rated Short-Circuit Capacity Rated Pesidual Current Rated Short-Circuit Rated Residual Current Rated Short-Circuit Rated Pesidual Current Rated Short-Circuit Rated Pesidual Current Rated Pesidual Current Rated Pesidual Current Rated Firequency (N) Rated Short-Circuit Rated Firequency (N) Rated Fireque	Rated Operational Voltage	acc. to IEC 60898-1 230 V	
Voltage (Vimp) AC Input Voltage Type AC Rated Current (I _p) 10 A Rated Residual Current 300 mA Rated Short-Circuit 10 kA Capacity 10 kA Rated Short-Circuit (I _p) 10 kA Circuit Breaking Capacity (I _p) 7.5 kA Rated Service Short-Circuit Preservice (I _p) 7.5 kA Circuit Breaking Capacity (I _p) 7.5 kA Maximum Surge Current 0.25 kA Leakage Current Type A Return (I _p) 50 Hz Frequency (I) 50 Hz Return (I _p) 50 Hz Power Loss 3.28 W Power Loss 3.28 W Power Supply Connection Arbitrary Energy Limiting Class 3.2 W Energy Limiting Class 2 Energy Limiting Class 2 Mumber of Poles 2 Number of Poles 2 Value of Protected 2 Poles 1 Fault Indication But flag on window		acc. to IEC/EN 60664-1 440 V	
Rated Current (In) 10 A Rated Residual Current 300 mA Rated Residual Current 10 kA Capacity 10 kA Capacity 10 kA Capacity 10 kA Circuit Breaking Capacity (In) 7.5 kA Circuit Breaking Capacity (In) 7.5 kA Circuit Breaking Capacity (In) 2.5 kA Maximum Surge Current 0.25 kA Leakage Current Type A Reted Frequency (f) 5.0 Hz Reted Frequency (f) 5.0 Hz Reted Frequency (f) 5.0 Hz Power Loss 3.28 W Power Supply Connection 3.28 W Power Supply Connection 3.3 BW Mechanical Endurance 10000 operations Muchanical Endurance 20000 operations Number of Poles 2 Number of Protected 2.2 Poles 1 Fault Indication Bue flag on windrows Overvoltage Category Ill Posting Of Neutral 1.6 Ht Terminal 1		4 kV	
Rated Residual Current 300 mA Rated Short-Circuit 10 kA Capacity 10 kA Rated Ultimate Short-Circuit Ereaking Capacity (10 m) 10 kA Rated Service Short-Circuit Ereaking Capacity (10 m) 7.5 kA Rated Service Short-Circuit Ereaking Capacity (10 m) 0.25 kA Leakage Current Type A Frequency (1) 50 Hz Rated Frequency (1) 50 Hz Rated Frequency (2) 50 Hz Rated Frequency (3) 50 Hz Power Loss 3.28 W Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Poles 2 Number of Poles 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Ferminals Left Left Ireminals	Input Voltage Type	AC	
Rated Short-Circuit 10 kA Capacity 10 kA Circuit Breaking Capacity 10 kA Circuit Breaking Capacity 7.5 kA Circuit Breaking Capacity 7.5 kA Circuit Breaking Capacity 2.5 kA Leakage Current 9.4 k Frequency (f) 50 Hz Rated Frequency (g) 50 Hz Power Loss 3.28 W Power Loss 3.28 W Power Supply Connection A britishing Class Electrical Endurance 10000 operations Machanial Endurance 20000 operations Mumber of Poles 2 Number of Poles 2 Pail Indication Blue flag on window Operating Characteristic Instantaneous Operating Ch	Rated Current (I _n)	10 A	
Capacity 10 kA Circuit Breaking Capacity (I _{mi}) 7.5 kA Circuit Breaking Capacity (I _{mi}) 7.5 kA Circuit Breaking Capacity (I _{mi}) 7.5 kA Circuit Breaking Capacity (I _{mi}) 0.25 kA Leakage Current 0.25 kA Leakage Current Type 7.5 Hz Reted Frequency (f) 5.0 Hz Reted Frequency (f) 5.0 Hz Power Supply Connection A.5 Hz Energy Limiting Class 3.2 8 W Power Supply Connection 4.0 Hz Mechanical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Poles 2 Number of Poles 10 Ender My Poles 1 Fault Indication Blue flag on window Operations Operatoristic Instantaneous Oerworldage Category Ill Postion of Neutral Right Tightening Torque 4 N m Accessory Type Audiliary contact Earthing Switch Type Unde	Rated Residual Current	300 mA	
Circuit Freaking Capacity (Ing.) 7.5 kA Circuit Breaking Capacity (Ing.) 7.5 kA Circuit Breaking Capacity (Ing.) 3.25 kA Leakage Current Type A Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Power Loss 3.28 W Power Supply Connection Abthray Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 20000 operations Number of Poles 2 Number of Poles 2 Number of Poles 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Signal ontact Auxiliary contact Terminals Left Terminals Left Roberting Torque 4 Nm Accessory Type Signal ontact Auxiliary contact Earthing Switch Type Din-Reail Mounting Position Any		10 kA	
Circuit Breaking Capacity (Icg) 0.25 kA Maximum Surge Current 0.25 kA Leakage Current Type A Frequency (f) 50 Hz Rated Frequency (g) 50 Hz Power Loss 3.28 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 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 Batterie	Circuit Breaking Capacity	10 kA	
Leakage Current Type A Frequency (f) 50 Hz Rated Frequency (g) 50 Hz Power Loss 3.28 W Power Supply Connection Arbitrary Energy Limiting Class 3 Electrical Endurance 100000 operations Mechanical Endurance 200000 operations Number of Poles 2 Number of Protected 2 Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals 1 H 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 3 5 mm² Cable Size 3 5 mm² Cable Size 3 5 mm² Connecting Capa	Circuit Breaking Capacity	7.5 kA	
Frequency (f) 50 Hz Rated Frequency (f) 50 Hz Power Loss 3.28 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 Overvoltage Category Ill Position of Neutral Terminals Right Left Terminals Left Tightening Torque 4 N·m Accessory Type Auxiliary contact Earthing Switch Type Undelayed 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 1010 mm² Flexible 125 mm² <	Maximum Surge Current	0.25 kA	
Rated Frequency (f) 50 Hz Power Loss 3.28 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 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 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 4 - Multi-Wirled 125 mm² 4 - Multi-Wirled 125	Leakage Current Type	A	
Power Loss 3.28 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 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 Rigid Solid 135 mm² Rigid Solid 135 mm² A - Multi-Wired 125 mm²	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 2 Fault Indication Blue flag on window Opervoltage 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 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 Rated Cross-Section 1 - Solid-Core 1 35 mm²	Rated Frequency (f)	50 Hz	
Energy Limiting Class 3 Electrical Endurance 10000 operations Mechanical Endurance 200000 operations Number of Poles 2 Number of Protected Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous Overvoltage Category Ill Position of Neutral Right Terminals 8.1 this position of Neutral Right Terminals Terminals Torque 4 N·m Accessory Type Auxiliary contact Signal contact / auxiliary contact 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 Connecting Capacity Busbar 1010 mm² Rigid Solid 135 mm² Rigid Solid 135 mm² Reled Cross-Section 1 - Solid-Core 1 35 mm² Auxiliary Contact 1 35 mm² 1 - Solid-Core 1 35 mm²	Power Loss	3.28 W	
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 Overvoltage Category Ill Position of Neutral Right Terminals Left Tightening Torque 4 Nrm 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	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 Overvoltage Category Ill Position of Neutral Terminals Right Left 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 125 mm²	Energy Limiting Class	3	
Number of Poles 2 Number of Protected Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous 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 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 125 mm²	Electrical Endurance	10000 operations	
Number of Protected Poles 2 Fault Indication Blue flag on window Operating Characteristic Instantaneous 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 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	Mechanical Endurance	20000 operations	
Poles Fault Indication Blue flag on window Operating Characteristic Instantaneous 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 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 Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²	Number of Poles	2	
Operating Characteristic Instantaneous 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 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 Rated Cross-Section 1 - Solid-Core 135 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 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 Terminals Right Terminals 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 4 - Multi-Wired 1 25 mm²	Operating Characteristic	Instantaneous	
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	Overvoltage Category	III	
Accessory Type Auxiliary contact Signal contact / auxiliary contact Earthing Switch Type Undelayed Mounting Type DIN-Rail Mounting Position Accessories Available Yes Number of Batteries Onnecting Capacity Busbar 1010 mm² Flexible 125 mm² Rated Cross-Section 1 - Solid-Core 1 35 mm² 4 - Multi-Wired 1 25 mm²		=	
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 A - 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	Undelayed	
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
RINA Certificate	9AKK108467A7089
VDE Certificate	9AKK108467A7823
Installation	
Instructions and Manuals	9AKK108466A5165

Popular Downloads

Data Sheet, Technical 9AKK108467A1864
Information

Classifications

Ciacomoationo		
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 contact G2C-S/H6-L+R-KL	1	piece

Categories

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





