

PRODUCT-DETAILS

# DS201 M B16 F10

## DS201 M B16 F10 Residual Current Circuit Breaker with Overcurrent Protection



### General Information

Extended Product Type	DS201 M B16 F10
Product ID	2CSR275580R0165
EAN	8012542582519
Catalog Description	DS201 M B16 F10 Residual Current Circuit Breaker with Overcurrent Protection
Long Description	<p>The DS201 series is a 1P+N RCBO in two-modules 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 (with sensitivity = 30 mA). The F type is covering APR features with a resistance to unwanted trippings and in addition it is able to detect high frequency currents up to 1 kHz. Specifically suitable for the protection of lines supplying single phase inverters.</p>

### Technical

Standards	IEC/EN 61009-1, IEC/EN 61009-2-1
Tripping Characteristic	B
Type of Residual Current	F type
Rated Voltage ( $U_r$ )	230 V
Rated Operational Voltage	230 / 240 V AC
Rated Insulation Voltage ( $U_i$ )	500 V

Test Voltage (Ut)	110 ... 264 V
Dielectric Test Voltage	2 kV
Primary Rated Impulse Withstand Voltage	4 kV
Input Voltage Type	AC
Rated Current ( $I_n$ )	16 A
Rated Residual Current	10 mA
Rated Short-Circuit Capacity	10 kA
Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ )	15 kA
Rated Residual Breaking Capacity ( $I_{\Delta m}$ )	EN 61009-1 6000 A IEC 61009-1 6000 A
Rated Conditional Short-Circuit Current ( $I_{nc}$ )	15 kA
Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )	11.2 kA
Maximum Surge Current	0 kA
Leakage Current Type	F
Frequency (f)	50/60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	Average per Pole 2,3 W Phase Pole 3,4 W Neutral Pole 1,2 W Total 4,5 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 cycle
Mechanical Endurance	20000 cycle
Number of Poles	2
Number of Protected Poles	1
Number of Modular Spacings per DIN Rail	2
Fault Indication	Blue flag on toggle
Operating Characteristic	Instantaneous (APR High Immunity)
Overvoltage Category	III
Position of Neutral Terminals	Right
Tightening Torque	2.8 N·m
Accessory Type	Auxiliary contact, Signal contact / auxiliary contact, Shunt trip, Auxiliary contact for bottom fitting, Overvoltage release, Motor operating device
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
Release Type	B
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal

Mounting Position	Any
Accessories Available	Yes
Number of Batteries	0
Cable Size	25 mm <sup>2</sup>
Connecting Capacity	Busbar 10 ... 10 mm <sup>2</sup> Stranded 0.75 ... 25 mm <sup>2</sup> Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup> Flexible 0.75 ... 16 mm <sup>2</sup>
Wire Stripping Length	12 mm
Terminal Type	Screw Terminals

## Environmental

Ambient Temperature	-25...55 °C
Ambient Air Temperature	Operation -25...55 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	Terminals IP20 Housing IP40
Pollution Degree	2
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations acc. to IEC 60068-2-6	0.1 mm or 1 g - 20 cycles at 5...150...5 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Information	9AKK106713A5588
REACH Declaration	9AKK108467A9482
Environmental Information	2CSC422002K2701
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

## Dimensions

Width in Number of Modular Spacings	2
Product Net Width	0.035 m
Product Net Height	0.085 m
Product Net Depth / Length	0.069 m
Product Net Weight	0.200 kg
Built-In Depth (t <sub>2</sub> )	69 mm

## Ordering

Minimum Order Quantity	1 piece
Package Level 1 Units	box 1 piece

Package Level 1 Gross Weight	225 g
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## Certificates and Declarations

CB Certificate	9AKK107492A6063
Declaration of Conformity - CE	9AKK106713A5588
GOST Certificate	9AKK107992A1640
IMQ Certificate	9AKK107492A6074
ÖVE Certificate	9AKK107492A6086
VDE Certificate	9AKK107492A6094

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## Installation

Instructions and Manuals	9AKK107492A6006
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## Popular Downloads

Data Sheet, Technical Information	9AKK107492A6187
EPLAN Macro	9AKK107680A0597

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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 Code	F

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## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CDS200912R0001	S2C-H6R Auxiliary Contact	S2C-H6R	1	piece
2CDS200922R0001	S2C-S/H6R Signal / Auxiliary Contact	S2C-S/H6R	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary Contact	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary Contact	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary Contact	S2C-H6-02R	1	piece
2CDS200970R0031	S2C-H01 Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0032	S2C-H10 Auxiliary Contact	S2C-H10	1	piece
2CSS200910R0005	S2C-OVP1 Overvoltage release	S2C-OVP1	1	piece
2CSS200933R0011	F2C-A1 Shunt trip	F2C-A1	1	piece
2CSS200933R0012	F2C-A2 Shunt trip	F2C-A2	1	piece
2CSS200993R0005	S2C-OVP2 Overvoltage release	S2C-OVP2	1	piece
2CSS203997R0013	S2C-CM2/3 Motor operating device	S2C-CM2/3	1	piece

## Categories

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

