



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                                                                                                                                                                                                                                                                    |
| 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 Declaration - EPD | 9AKK108467A5738 |

| Technical |                                    |
|-----------|------------------------------------|
| Standards | IEC/EN 61009-1<br>IEC/EN 61009-2-1 |

|                                                                   |                                                                                                         |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Tripping Characteristic                                           | C                                                                                                       |
| Type of Residual Current                                          | Type A                                                                                                  |
| Rated Operational Voltage                                         | acc. to IEC 60898-1 230 V                                                                               |
| Rated Insulation Voltage (U <sub>i</sub> )                        | acc. to IEC/EN 60664-1 440 V                                                                            |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | 4 kV                                                                                                    |
| Input Voltage Type                                                | AC                                                                                                      |
| Rated Current (I <sub>n</sub> )                                   | 16 A                                                                                                    |
| Rated Residual Current                                            | 30 mA                                                                                                   |
| Rated Short-Circuit Capacity                                      | 10 kA                                                                                                   |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | 10 kA                                                                                                   |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | 7.5 kA                                                                                                  |
| Maximum Surge Current                                             | 3 kA                                                                                                    |
| Leakage Current Type                                              | A                                                                                                       |
| 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 Protected Poles                                         | 2                                                                                                       |
| Number of Poles                                                   | 2                                                                                                       |
| Fault Indication                                                  | Blue flag on window                                                                                     |
| Operating Characteristic                                          | Instantaneous (APR High Immunity)                                                                       |
| Overvoltage Category                                              | III                                                                                                     |
| Position of Neutral Terminals                                     | Right<br>Left                                                                                           |
| Tightening Torque                                                 | 4 N·m                                                                                                   |
| Accessory Type                                                    | Auxiliary contact<br>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 mm <sup>2</sup>                                                                                      |
| Connecting Capacity                                               | Busbar 10...10 mm <sup>2</sup><br>Flexible 1...25 mm <sup>2</sup><br>Rigid Solid 1...35 mm <sup>2</sup> |
| Rated Cross-Section                                               | 1 - Solid-Core 1 ... 35 mm <sup>2</sup><br>4 - Multi-Wired 1 ... 25 mm <sup>2</sup>                     |
| Wire Stripping Length                                             | 11 mm                                                                                                   |

## Material Compliance

|                  |                 |
|------------------|-----------------|
| RoHS Information | 9AKK108466A5162 |
|------------------|-----------------|

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| 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 -25 ... 55 °C                                  |
| Degree of Protection     | IP20                                                     |
| Pollution Degree         | 3                                                        |
| Environmental Conditions | 28 cycle<br>with 55 °C / 90-96 %<br>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 <sub>2</sub> )    | 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                | 9AKK108467A6462 |
| NF Certificate                 | 9AKK108467A7737 |
| VDE Certificate                | 9AKK108467A7823 |

Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 9AKK108466A5165 |
|--------------------------|-----------------|

Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK108467A1864 |
|-----------------------------------|-----------------|

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 Contact | G2C-S/H6-L+R-KL | 1        | piece           |

Categories

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

