

PRODUCT-DETAILS

# BMR415C25

## BMR415C25 Residual Current Circuit Breaker with Overcurrent Protection



### General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | BMR415C25                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product ID            | 2CSR645041R1254                                                                                                                                                                                                                                                                                                                                                                                                     |
| EAN                   | 8012542191735                                                                                                                                                                                                                                                                                                                                                                                                       |
| Catalog Description   | BMR415C25 Residual Current Circuit Breaker with Overcurrent Protection                                                                                                                                                                                                                                                                                                                                              |
| Long Description      | <p>The basic M RCBO is a 1P+N in two-modules device for the protection of end user single-phase circuits against overload and short-circuit currents.</p> <p>Protection against fault current to earth.</p> <p>Protection against indirect contacts and additional protection against direct contacts (with sensitivity = 30 mA).</p> <p>This product is manufactured according to international IEC standards.</p> |

### Technical

|                                               |                                                              |
|-----------------------------------------------|--------------------------------------------------------------|
| Standards                                     | IEC 61009-1                                                  |
| Product Name                                  | Residual Current Circuit Breaker with Overcurrent Protection |
| Tripping Characteristic                       | C                                                            |
| Type of Residual Current                      | AC Type                                                      |
| Rated Voltage ( $U_r$ )                       | 230 V                                                        |
| Rated Operational Voltage                     | 230 V AC                                                     |
| Rated Insulation Voltage ( $U_i$ )            | 500 V                                                        |
| Rated Impulse Withstand Voltage ( $U_{imp}$ ) | 4 kV                                                         |
| Input Voltage Type                            | AC                                                           |

|                                                                              |                                                                                  |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Rated Current ( $I_n$ )                                                      | 25 A                                                                             |
| Rated Residual Current                                                       | 30 mA                                                                            |
| Rated Short-Circuit Capacity ( $I_{cn}$ )                                    | 4.5 kA                                                                           |
| Rated Service Short-Circuit Breaking Capacity, in % of $I_{cu}$ ( $I_{cs}$ ) | 4.5 kA                                                                           |
| Maximum Surge Current                                                        | 0.25 kA                                                                          |
| Leakage Current Type                                                         | AC                                                                               |
| Frequency (f)                                                                | 50 Hz                                                                            |
| Rated Frequency (f)                                                          | 50 Hz                                                                            |
| Energy Limiting Class                                                        | 3                                                                                |
| Electrical Endurance                                                         | 2000AC cycle<br>8000 cycle                                                       |
| Number of Poles                                                              | 2                                                                                |
| Number of Protected Poles                                                    | 1                                                                                |
| Overvoltage Category                                                         | III                                                                              |
| Tightening Torque                                                            | 2 N·m                                                                            |
| Actuator Type                                                                | Toggle                                                                           |
| Earthing Switch Type                                                         | Undelayed                                                                        |
| Release Type                                                                 | C                                                                                |
| Actuator Marking                                                             | I / O                                                                            |
| Recommended Screw Driver                                                     | Pozidriv 2                                                                       |
| Accessories Available                                                        | No                                                                               |
| Connecting Capacity                                                          | Flexible 16 mm <sup>2</sup><br>Rigid 25 mm <sup>2</sup>                          |
| Rated Cross-Section                                                          | 4 - Multi-Wired 1...25 mm <sup>2</sup><br>1 - Solid-Core 25...25 mm <sup>2</sup> |
| Wire Stripping Length                                                        | 12.5 mm                                                                          |

## Environmental

|                         |                       |
|-------------------------|-----------------------|
| Ambient Temperature     | -25...55 °C           |
| Ambient Air Temperature | Operation -25...55 °C |
| Degree of Protection    | IP40                  |
| Pollution Degree        | 2                     |

## Technical UL/CSA

|                                     |        |
|-------------------------------------|--------|
| Short-Circuit Current Rating (SCCR) | 0.03 A |
|-------------------------------------|--------|

## Dimensions

|                                     |       |
|-------------------------------------|-------|
| Width in Number of Modular Spacings | 2     |
| Product Net Width                   | 35 mm |
| Product Net Height                  | 69 mm |
| Product Net Depth / Length          | 88 mm |
| Product Net Weight                  | 180 g |
| Built-In Depth ( $t_2$ )            | 69 mm |

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**Container Information**

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|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 0.047 m       |
| Package Level 1 Height         | 0.078 m       |
| Package Level 1 Depth / Length | 0.103 m       |
| Package Level 1 Gross Weight   | 0.210 kg      |
| Package Level 1 EAN            | 8012542191735 |
| Package Level 2 Units          | crate 5 piece |
| Package Level 2 Width          | 253 mm        |
| Package Level 2 Height         | 88 mm         |
| Package Level 2 Depth / Length | 108 mm        |
| Package Level 2 Gross Weight   | 1.050 kg      |
| Package Level 2 EAN            | 8012542191742 |

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**Ordering**

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|-------------------------|------------|
| Minimum Order Quantity  | 1 piece    |
| Customs Tariff Number   | 85363030   |
| Country of Origin       | Italy (IT) |
| Selling Unit of Measure | piece      |

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**Certificates and Declarations (Document Number)**

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|--------------------------------|--------------------|
| Declaration of Conformity - CE | 9AKK107045A4805    |
| Instructions and Manuals       | No document needed |

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**Popular Downloads**

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|                                   |                    |
|-----------------------------------|--------------------|
| Data Sheet, Technical Information | 9AKK107045A1496    |
| Instructions and Manuals          | No document needed |

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**Classifications**

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|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| ETIM 6                     | EC000905 - Earth leakage circuit breaker                   |
| ETIM 7                     | EC000905 - Earth leakage circuit breaker                   |
| ETIM 8                     | EC000905 - Earth leakage circuit breaker                   |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B             | Business To Consumer                                       |
| CN8                        | 85363030                                                   |
| Object Classification Code | Q                                                          |

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## Categories

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Low Voltage Products and Systems → Modular DIN Rail Products → Basic M System → Residual Current Devices RCDs

