

## PRODUCT-DETAILS

# BMS413B10

## BMS413B10 Miniature Circuit Breaker



### General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | BMS413B10                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product ID            | 2CDS643041R0105                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EAN                   | 4016779047562                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Catalog Description   | BMS413B10 Miniature Circuit Breaker                                                                                                                                                                                                                                                                                                                                                                                                      |
| Long Description      | <p>The basic M MCB series protects installations against overloads and short-circuits, guaranteeing reliability and safety of operations.</p> <p>ABB basic M series satisfies most common requirements in terms of MCBs, allowing the usage of different pole configurations, characteristics and rated currents for residential and commercial applications. This product is manufactured according to international IEC standards.</p> |

### Technical

|                                                     |                                                           |
|-----------------------------------------------------|-----------------------------------------------------------|
| Standards                                           | IEC 60898-1                                               |
| Product Name                                        | Miniature Circuit Breaker                                 |
| Tripping Characteristic                             | B                                                         |
| Rated Operational Voltage                           | acc. to IEC 60898-1 400 V AC<br>acc. to IEC 60947-2 440 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> )                     | 10 A                                                      |
| Rated Short-Circuit                                 | (400 V AC) 4.5 kA                                         |

|                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| Capacity (I <sub>cn</sub> ) |                                                                 |
| Rated Frequency (f)         | 50 / 60 Hz                                                      |
| Power Loss                  | at Rated Operating Conditions per Pole 2.1 W                    |
| Energy Limiting Class       | 3                                                               |
| Electrical Endurance        | 4000 AC cycle<br>10000 cycle                                    |
| Number of Poles             | 3                                                               |
| Number of Protected Poles   | 3                                                               |
| Overvoltage Category        | III                                                             |
| Tightening Torque           | 2 N·m                                                           |
| Actuator Type               | Toggle                                                          |
| Actuator Marking            | I / O                                                           |
| Recommended Screw Driver    | Pozidriv 2                                                      |
| Accessories Available       | Yes                                                             |
| Connecting Capacity         | Flexible 1...16 mm <sup>2</sup><br>Rigid 1...25 mm <sup>2</sup> |
| Wire Stripping Length       | 12.5 mm                                                         |

## Environmental

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Ambient Air Temperature | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C |
| Degree of Protection    | IP20<br>Enclosure with Cover IP40                  |
| Pollution Degree        | 2                                                  |
| RoHS Status             | Following EU Directive 2011/65/EU                  |

## Dimensions

|                                     |         |
|-------------------------------------|---------|
| Width in Number of Modular Spacings | 3       |
| Product Net Width                   | 52.5 mm |
| Product Net Height                  | 88 mm   |
| Product Net Depth / Length          | 69 mm   |
| Product Net Weight                  | 279 g   |
| Built-In Depth (t <sub>2</sub> )    | 69 mm   |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | 4 piece       |
| Package Level 1 Width          | 92 mm         |
| Package Level 1 Height         | 80 mm         |
| Package Level 1 Depth / Length | 220 mm        |
| Package Level 1 Gross Weight   | 1.293 kg      |
| Package Level 1 EAN            | 4016779047579 |
| Package Level 2 Units          | 32 piece      |
| Package Level 2 Width          | 183 mm        |
| Package Level 2 Height         | 164 mm        |
| Package Level 2 Depth / Length | 445 mm        |
| Package Level 2 Gross Weight   | 10.344 kg     |
| Package Level 2 EAN            | 4016779054416 |

## Ordering

|                         |               |
|-------------------------|---------------|
| Minimum Order Quantity  | 1 piece       |
| Customs Tariff Number   | 85362010      |
| Country of Origin       | Bulgaria (BG) |
| Selling Unit of Measure | piece         |

## Certificates and Declarations (Document Number)

|                                |                    |
|--------------------------------|--------------------|
| Declaration of Conformity - CE | 2CDK400666D2701    |
| Instructions and Manuals       | No document needed |
| RoHS Information               | 2CDK400667D0201    |

## Popular Downloads

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

## Classifications

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| ETIM 6             | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 7             | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 8             | EC000042 - Miniature circuit breaker (MCB)                 |
| EPLAN Catalog Tree | Electrical engineering / Protection devices / General      |
| WEEE Category      | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B     | Business To Consumer                                       |
| CN8                | 8536 20 10                                                 |
| UNSPSC             | 39121614                                                   |
| eClass             | V11.0 : 27141901                                           |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Basic M System → Miniature Circuit Breakers MCBs

