

PRODUCT-DETAILS

# BMS412C16

## BMS412C16 Miniature Circuit Breaker



### General Information

Extended Product Type	BMS412C16
Product ID	2CDS642041R0164
EAN	4016779046886
Catalog Description	BMS412C16 Miniature Circuit Breaker
Long Description	The basic M MCB series protects installations against overloads and short-circuits, guaranteeing reliability and safety of operations. 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.

### Technical

Standards	IEC 60898-1
Product Name	Miniature Circuit Breaker
Tripping Characteristic	C
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC 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> )	16 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 2.5 W
Energy Limiting Class	3
Electrical Endurance	4000 AC cycle 10000 cycle
Number of Poles	2
Number of Protected Poles	2
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> Rigid 1...25 mm <sup>2</sup>
Wire Stripping Length	12.5 mm

## Environmental

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

## Dimensions

Width in Number of Modular Spacings	2
Product Net Width	35 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	186 g
Built-In Depth (t <sub>2</sub> )	69 mm

## Container Information

Package Level 1 Units	6 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	4016779046893
Package Level 2 Units	48 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	4016779054072

---

### 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

