



 PRODUCT-DETAILS

BMS412B40

Miniature Circuit Breaker



General Information

Extended Product Type	BMS412B40
Product ID	2CDS642041R0405
EAN	4016779047241
Catalog Description	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
Tripping Characteristic	B
Rated Operational Voltage	acc. to IEC 60898-1 400 V acc. to IEC 60947-2 440 V
Rated Insulation Voltage (U _i)	acc. to IEC/EN 60664-1 440 V

Rated Impulse Withstand Voltage (U _{imp})	4 kV
Input Voltage Type	AC
Rated Current (I _n)	40 A
Rated Short-Circuit Capacity	(AC) 4.5 kA (400 V AC) 4.5 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	at Rated Operating Conditions per Pole 4.8 W
Energy Limiting Class	3
Electrical Endurance	4000 AC cycle
Mechanical Endurance	10000 cycle
Number of Protected Poles	2
Number of 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 ² Rigid 1 ... 25 mm ²
Wire Stripping Length	12.5 mm

Material Compliance

RoHS Information	2CDK400667D0201
RoHS Status	Following EU Directive 2011/65/EU
RoHS Date	20170816
REACH Declaration	9AKK107492A1906
REACH Information	False - does not contain substances > 0.1 mass percentage
REACH Date	20240821
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Degree of Protection	IP20 Enclosure with Cover IP40
Pollution Degree	2

Dimensions

Width in Number of Modular Spacings	2.0
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 ₂)	69 mm
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Ordering

Package Level 1 Units	6 piece
Package Level 1 Gross Weight	1.293 kg

Certificates and Declarations

Declaration of Conformity - CE	2CDK400666D2701
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Installation

Instructions and Manuals	No document needed
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Popular Downloads

Data Sheet, Technical Information	9AKK107045A1496
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Classifications

ETIM 8	EC000042 - Miniature circuit breaker (MCB)
ETIM 9	EC000042 - Miniature circuit breaker (MCB)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business
CN8	8536 20 10
UNSPSC	39121603
eClass	V11.0 : 27141901
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breakers

Categories

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

