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 PRODUCT-DETAILS

# S452M-B10

## S452M-B10 Miniature Circuit Breaker




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**General Information**

Extended Product Type	S452M-B10
Product ID	2CCS472001R0105
EAN	7612270106141
Catalog Description	S452M-B10 Miniature Circuit Breaker
Long Description	S452M-B10 Miniature Circuit Breaker 2 Poles B Characteristic 10A 10000 ~230/400V

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**ABB EcoSolutions**

ABB EcoSolutions	Yes
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 92.95 %
ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill
Sustainable Material Content in Packaging (wt. %)	FSC Mix Cardboard - 57 % FSC Mix Cardboard - 41.86 % Chemically Recycled Polymer - 0 % Chemically Recycled Polymer - 0 %
Extended Product Lifetime	Product Durability

End Of Life Disassembling Instructions	9AKK108470A1690
Environmental Product Declaration - EPD	9AKK108469A9054

## Technical

Rated Operational Current ( $I_e$ )	10 A
Rated Ultimate Short- Circuit Breaking Capacity ( $I_{cu}$ )	(240 V AC) 10 kA
Energy Limiting Class	3
Number of Protected Poles	2
Number of Poles	2P
Release Type	B
Accessories Available	Yes
Connecting Capacity	Flexible 0.75 ... 25 mm <sup>2</sup> Rigid 0.75 ... 35 mm <sup>2</sup>

## Electrical

Tripping Characteristic	B
Rated Voltage ( $U_r$ )	230 / 400 V
Rated Operational Voltage	acc. to IEC 60898-1 400 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 ( $I_n$ )	10 A
Rated Short-Circuit Capacity	(230 V AC) 10 kA (230 / 400 V AC) 10 kA
Rated Conditional Short- Circuit Current ( $I_{nc}$ )	(230 V) 25 kA (400 V) 25 kA
Frequency (f)	50 ... 60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	Total 3.584 W
Overvoltage Category	III

## Material Compliance

RoHS Declaration	9AKK107991A9703
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20210407
REACH Declaration	9AKK108467A9561
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20230417
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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## Environmental

Ambient Temperature	-25...55 °C
Ambient Air Temperature	Operation -25 ... 60 °C
Degree of Protection	IP20
Pollution Degree	2
Environmental Information	9AKK108467A9561

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## Dimensions

Width in Number of Modular Spacings	2
Product Net Width	69 mm
Product Net Height	89 mm
Product Net Depth / Length	94.5 mm
Product Net Weight	284 g
Size	2 modules
Built-In Depth (t <sub>2</sub> )	94.5 mm
Dimension Diagram	2CCC451027C0106 Ind B

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## Ordering

Package Level 1 Units	carton 1 piece
Package Level 1 Gross Weight	1540 g
E-Number (Switzerland)	809048802

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## Certificates and Declarations

Declaration of Conformity - CE	9AKK107991A9702
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## Installation

Instructions and Manuals	2CCC404011M0109
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## Popular Downloads

Data Sheet, Technical Information	2CCC451027C0106 Ind B
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## External Classifications and Standards

ETIM 9	EC000042 - Miniature circuit breaker (MCB)
ETIM 10	EC000042 - Miniature circuit breaker (MCB)

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eClass	V11.0 : 27141901
Object Classification Code	FC
Standards	IEC/EN 60898-1

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## Categories

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Low Voltage Products and Systems → Modular DIN Rail Products → SMISLINE Classic → SMISLINE Classic

