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 PRODUCT-DETAILS

# S452M-C25

## S452M-C25 Miniature Circuit Breaker




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### General Information

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| Extended Product Type | S452M-C25                                                                        |
| Product ID            | 2CCS472001R0254                                                                  |
| EAN                   | 7612270106356                                                                    |
| Catalog Description   | S452M-C25 Miniature Circuit Breaker                                              |
| Long Description      | S452M-C25 Miniature Circuit Breaker 2 Poles C Characteristic 25A 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 %<br>FSC Mix Cardboard - 41.86 %<br>Chemically Recycled Polymer - 0 %<br>Chemically Recycled Polymer - 0 % |
| Extended Product Lifetime                         | Product Durability                                                                                                                |

|                                              |                 |
|----------------------------------------------|-----------------|
| End Of Life<br>Disassembling<br>Instructions | 9AKK108470A1690 |
| Environmental Product<br>Declaration - EPD   | 9AKK108469A9054 |

## Technical

|                                                                    |                                                                           |
|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| Rated Operational<br>Current ( $I_e$ )                             | 25 A                                                                      |
| Rated Ultimate Short-<br>Circuit Breaking<br>Capacity ( $I_{cu}$ ) | (230 / 400 V AC) 15 kA                                                    |
| Energy Limiting Class                                              | 3                                                                         |
| Number of Protected<br>Poles                                       | 2                                                                         |
| Number of Poles                                                    | 2P                                                                        |
| Release Type                                                       | C                                                                         |
| Accessories Available                                              | Yes                                                                       |
| Connecting Capacity                                                | Flexible 0.75 ... 25 mm <sup>2</sup><br>Rigid 0.75 ... 35 mm <sup>2</sup> |

## Electrical

|                                                          |                                            |
|----------------------------------------------------------|--------------------------------------------|
| Tripping Characteristic                                  | C                                          |
| Rated Voltage ( $U_r$ )                                  | 240 / 415 V                                |
| Rated Operational<br>Voltage                             | acc. to IEC 60898-1 415 V                  |
| Rated Insulation Voltage<br>( $U_i$ )                    | acc. to IEC/EN 60664-1 440 V               |
| Rated Impulse<br>Withstand Voltage ( $U_{imp}$ )         | 4 kV                                       |
| Input Voltage Type                                       | AC                                         |
| Rated Current ( $I_n$ )                                  | 25 A                                       |
| Rated Short-Circuit<br>Capacity                          | (230 V AC) 10 kA<br>(230 / 400 V AC) 10 kA |
| Rated Conditional Short-<br>Circuit Current ( $I_{nc}$ ) | (230 V) 25 kA<br>(400 V) 25 kA             |
| Frequency (f)                                            | 50 ... 60 Hz                               |
| Rated Frequency (f)                                      | 50 ... 60 Hz                               |
| Power Loss                                               | Total 4.468 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<br>Reporting Template<br>(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          | 4                       |
| 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)       | 809151802      |

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## Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 9AKK107991A9703 |
|--------------------------------|-----------------|

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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) |

|                            |                                  |
|----------------------------|----------------------------------|
| eClass                     | V11.0 : 27141901                 |
| Object Classification Code | FC                               |
| Standards                  | IEC/EN 60898-1<br>IEC/EN 60947-2 |

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## Categories

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

