



PRODUCT-DETAILS

SH203M-C50

Miniature Circuit Breaker - SH200M - 3P - 50 A  
- C - (AC) 10 kA



| General Information   |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Extended Product Type | SH203M-C50                                                      |
| Product ID            | 2CDS273011R0504                                                 |
| EAN                   | 4016779701860                                                   |
| Catalog Description   | Miniature Circuit Breaker - SH200M - 3P - 50 A - C - (AC) 10 kA |
| Long Description      | SH203M-C50 Miniature Circuit Breaker - 3P - C - 50 A            |

| ABB EcoSolutions                                  |                                                               |
|---------------------------------------------------|---------------------------------------------------------------|
| ABB EcoSolutions                                  | Yes                                                           |
| EcoSolutions Profile                              | 9AKK108471A1003                                               |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 92.1 % |
| ABB Site Meeting Group Waste To Landfill Target   | No non-hazardous waste is sent to a landfill                  |
| Extended Product Lifetime                         | Product Durability                                            |
| End Of Life Disassembling Instructions            | 9AKK108468A3121                                               |

**Technical**

|                             |                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric Test Voltage     | 50 / 60 Hz - 1 min 2 kV                                                                                                                                                                                     |
| Power Supply Connection     | Arbitrary                                                                                                                                                                                                   |
| Contact Position Indication | ON / OFF                                                                                                                                                                                                    |
| Energy Limiting Class       | 3                                                                                                                                                                                                           |
| Electrical Endurance        | 10000 AC cycle                                                                                                                                                                                              |
| Mechanical Endurance        | 20000 cycle                                                                                                                                                                                                 |
| Number of Protected Poles   | 3                                                                                                                                                                                                           |
| Number of Poles             | 3P                                                                                                                                                                                                          |
| Tightening Torque           | 2 N·m                                                                                                                                                                                                       |
| Actuator Type               | Toggle                                                                                                                                                                                                      |
| Screw Terminal Type         | Cage Terminal                                                                                                                                                                                               |
| Actuator Marking            | I / O                                                                                                                                                                                                       |
| Actuator Material           | Insulation Group II, Black, Sealable                                                                                                                                                                        |
| Recommended Screw Driver    | Pozidriv 2                                                                                                                                                                                                  |
| Accessories Available       | Yes                                                                                                                                                                                                         |
| Connecting Capacity         | Conductor 25 / 25 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup><br>Flexible 0.75 ... 16 mm <sup>2</sup><br>Rigid 0.75 ... 25 mm <sup>2</sup><br>Stranded 0.75 ... 25 mm <sup>2</sup> |
| Installation Size           | acc. to DIN 43880 1                                                                                                                                                                                         |
| Terminal Type               | Screw Terminals                                                                                                                                                                                             |

**Electrical**

|                                                            |                                                         |
|------------------------------------------------------------|---------------------------------------------------------|
| Tripping Characteristic                                    | C                                                       |
| Rated Operational Voltage                                  | acc. to IEC 60898-1 400 V                               |
| Operational Voltage                                        | Maximum (Incl. Tolerance) 440 V AC<br>Minimum 12 V AC   |
| 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<br>at 2000 m 5 kV<br>at Sea Level 6.2 kV           |
| Input Voltage Type                                         | AC                                                      |
| Rated Current (I <sub>n</sub> )                            | 50 A                                                    |
| Rated Short-Circuit Capacity                               | (AC) 10 kA<br>(400 V AC) 10 kA<br>(400 V) 10 kA         |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> ) | (230 V) 10 kA<br>(400 V) 10 kA                          |
| Rated Frequency (f)                                        | 50 / 60 Hz                                              |
| Power Loss                                                 | 9.75 W<br>at Rated Operating Conditions per Pole 3.25 W |
| Overvoltage Category                                       | III                                                     |

## Design

|                  |                               |
|------------------|-------------------------------|
| Housing Material | Insulation Group II, RAL 7035 |
|------------------|-------------------------------|

## Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| RoHS Declaration                            | 9AKK108472A0372                                                        |
| RoHS Information                            | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date                                   | 20251203                                                               |
| REACH Declaration                           | 9AKK107492A1906                                                        |
| REACH Information                           | False - does not contain substances > 0.1 mass percentage              |
| REACH Date                                  | 20251029                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                                        |
| Toxic Substances Control Act - TSCA         | 9AKK108468A8104                                                        |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm)             |
| WEEE B2C / B2B                              | Business To Business                                                   |

## Environmental

|                                            |                                                           |
|--------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                    | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Reference Ambient Air Temperature          | 30 °C                                                     |
| Degree of Protection                       | IP20<br>Enclosure with Cover IP40                         |
| Pollution Degree                           | 2                                                         |
| Environmental Conditions                   | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| Resistance to Vibrations                   | 20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz         |
| Resistance to Shock acc. to IEC 60068-2-27 | 25g 2 shocks 13 ms                                        |
| Environmental Information                  | 2CDK400030D0201                                           |

## Dimensions

|                                     |          |
|-------------------------------------|----------|
| Width in Number of Modular Spacings | 3.0      |
| Product Net Width                   | 52.5 mm  |
| Product Net Height                  | 88 mm    |
| Product Net Depth / Length          | 69 mm    |
| Product Net Weight                  | 0.33 kg  |
| Pole Net Weight                     | 0.125 kg |
| Built-In Depth (t <sub>2</sub> )    | 69 mm    |

## Ordering

|                              |                |
|------------------------------|----------------|
| Package Level 1 Units        | carton 1 piece |
| Package Level 1 Gross Weight | 0.35 kg        |

## Certificates and Declarations

|                                   |                 |
|-----------------------------------|-----------------|
| Declaration of<br>Conformity - CE | 2CDK400607D2703 |
|-----------------------------------|-----------------|

## Installation

|                             |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| Instructions and<br>Manuals | 2CDS207105P0001                                                                                                |
| Mounting on DIN Rail        | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 |
| Mounting Position           | any                                                                                                            |

## Popular Downloads

|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 2CSC400030D0202 |
|--------------------------------------|-----------------|

## External Classifications and Standards

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| ETIM 9                                | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 10                               | EC000042 - Miniature circuit breaker (MCB) |
| UNSPSC                                | 39121603                                   |
| eClass                                | V11.0 : 27141901                           |
| IDEA Granular Category<br>Code (IGCC) | 4897 >> Miniature circuit breakers         |
| Standards                             | IEC/EN 60898-1                             |
| Certification Agency                  | EN<br>IEC                                  |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs → SH200M



Submitted by TECO Group