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 PRODUCT-DETAILS

# SH203M-C16

## SH203M-C16 Miniature Circuit Breaker - 3P - C - 16 A




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**General Information**

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Extended Product Type | SH203M-C16                                           |
| Product ID            | 2CDS273011R0164                                      |
| EAN                   | 4016779701815                                        |
| Catalog Description   | SH203M-C16 Miniature Circuit Breaker - 3P - C - 16 A |
| Long Description      | SH203M-C16 Miniature Circuit Breaker - 3P - C - 16 A |

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**Technical**

|                                                     |                                                       |
|-----------------------------------------------------|-------------------------------------------------------|
| Standards                                           | IEC/EN 60898-1                                        |
| 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         |
| Dielectric Test Voltage                             | 50/60 Hz, 1 min: 2 kV                                 |
| Input Voltage Type                                  | AC                                                    |

|                                                      |                                                                                                                                                                                                             |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Current ( $I_n$ )                              | 16 A                                                                                                                                                                                                        |
| Rated Short-Circuit Capacity                         | (AC) 10 kA<br>(400 V AC) 10 kA<br>(400 V) 10 kA                                                                                                                                                             |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ ) | (230 V) 10 kA<br>(400 V) 10 kA                                                                                                                                                                              |
| Rated Frequency (f)                                  | 50 / 60 Hz                                                                                                                                                                                                  |
| Power Loss                                           | 7.5 W<br>at Rated Operating Conditions per Pole 2.5 W                                                                                                                                                       |
| Power Supply Connection                              | Arbitrary                                                                                                                                                                                                   |
| Contact Position Indication                          | ON / OFF                                                                                                                                                                                                    |
| Energy Limiting Class                                | 3                                                                                                                                                                                                           |
| Electrical Endurance                                 | 20000 AC cycle                                                                                                                                                                                              |
| Mechanical Endurance                                 | 20000 cycle                                                                                                                                                                                                 |
| Number of Protected Poles                            | 3                                                                                                                                                                                                           |
| Number of Poles                                      | 3                                                                                                                                                                                                           |
| Overvoltage Category                                 | III                                                                                                                                                                                                         |
| Tightening Torque                                    | 2 N·m                                                                                                                                                                                                       |
| Actuator Type                                        | Toggle                                                                                                                                                                                                      |
| Screw Terminal Type                                  | Cage Terminal                                                                                                                                                                                               |
| Actuator Marking                                     | I / O                                                                                                                                                                                                       |
| Actuator Material                                    | Insulation Group II, Black, Sealable                                                                                                                                                                        |
| Housing Material                                     | Insulation Group II, RAL 7035                                                                                                                                                                               |
| 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                                                                                                                                                                                                         |
| 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                                                                                                                                                                                             |

## Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| RoHS Information                            | 2CDK400030D0201                                                        |
| RoHS Status                                 | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| REACH Declaration                           | 9AKK108468A9644                                                        |
| REACH Information                           | True - contains substances > 0.1 mass percentage                       |
| REACH Date                                  | 20231212                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                                        |

## 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        |
| Product Net Width                   | 52.5 mm  |
| Product Net Height                  | 88 mm    |
| Product Net Depth / Length          | 69 mm    |
| Product Net Weight                  | 0.375 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 | 0.39 kg        |

## Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Certification Agency           | EN<br>IEC       |
| Declaration of Conformity - CE | 2CDK400607D2703 |

## Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 2CDS207105P0001 |
|--------------------------|-----------------|

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CSC400030D0202 |
|-----------------------------------|-----------------|

## 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                         |

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## Categories

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

