PRODUCT-DETAILS

# SH203-B16

## SH203-B16 Miniature Circuit Breaker - 3P - B - 16 A



### General Information

| | |
|---|---|
| Extended Product Type | SH203-B16 |
| Product ID | 2CDS213001R0165 |
| EAN | 4016779631341 |
| Catalog Description | SH203-B16 Miniature Circuit Breaker - 3P - B - 16 A |
| Long Description | Compact Home SH200 miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 40 A). All MCBs of the product range SH200 comply with IEC/EN 60898-1, allowing the use for residential applications. |

### Technical

| | |
|---|---|
| Standards | IEC/EN 60898-1 |
| Product Name | Miniature Circuit Breaker |
| Tripping Characteristic | B |
| Rated Voltage ($U_r$) | 400 V AC |
| Rated Operational Voltage | acc. to IEC 60898-1 400 V AC |
| Operational Voltage | Maximum (Incl. Tolerance) 440 V AC<br>Minimum 12 V AC |
| Rated Insulation Voltage ($U_i$) | acc. to IEC/EN 60664-1 440 V |
| Rated Impulse Withstand Voltage ($U_{imp}$ | 4 kV<br>at 2000 m 5 kV |

| | |
|---|---|
| ) | 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 ($I_{cn}$) | (400 V AC) 6 kA |
| Rated Conditional Short-Circuit Current ($I_{nc}$) | (230 V) 6 kA<br>(400 V) 6 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<br>20000 cycle |
| Number of Poles | 3 |
| Number of Protected Poles | 3 |
| Overvoltage Category | III |
| Product Range | SH200 |
| 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 | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 |
| Mounting Position | Any |
| Recommended Screw Driver | Pozidriv 2 |
| Accessories Available | No |
| Connecting Capacity | Conductor 25 / 25 mm²<br>Flexible with Ferrule 0.75 ... 16 mm²<br>Flexible 0.75 ... 16 mm²<br>Rigid 0.75 ... 25 mm²<br>Stranded 0.75 ... 25 mm² |
| Installation Size | acc. to DIN 43880 1 |
| Terminal Type | Screw Terminals |

## 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 acc. to IEC 60068-2-6 | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In |
| Resistance to Shock acc. to IEC 60068-2-27 | 25g / 2 shocks / 13 ms |
| RoHS Status | Following EU Directive 2011/65/EU |
| Environmental Information | 2CDK400030D0201 |

## Dimensions

| | |
|---|---|
| Width in Number of Modular Spacings | 3 |
| Product Net Width | 52.5 mm |
| Product Net Height | 85 mm |
| Product Net Depth / Length | 69 mm |
| Product Net Weight | 0.375 kg |
| Pole Net Weight | 0.115 kg |
| Built-In Depth ($t_2$) | 69 mm |

## Container Information

| | |
|---|---|
| Package Level 1 Units | carton 1 piece |
| Package Level 1 Width | 92 mm |
| Package Level 1 Height | 80 mm |
| Package Level 1 Depth / Length | 58 mm |
| Package Level 1 Gross Weight | 0.4 kg |
| Package Level 1 EAN | 4016779631341 |
| Package Level 2 Units | 36 piece |
| Package Level 2 EAN | 4016779990813 |

## Ordering

| | |
|---|---|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85362010 |
| E-Number (Finland) | 3210976 |
| Country of Origin | Germany (DE) |
| Selling Unit of Measure | piece |

## Certificates and Declarations (Document Number)

| | |
|---|---|
| Certification Agency | EN<br>IEC |
| Declaration of Conformity - CE | 9AKK107046A5460 |
| Environmental Information | 2CDK400030D0201 |
| Instructions and Manuals | No document needed |
| RoHS Information | 2CDK400030D0201 |

## Popular Downloads

| | |
|---|---|
| Data Sheet, Technical Information | 2CSC400030D0202 |
| Instructions and Manuals | No document needed |

## Classifications

| | |
|---|---|
| ETIM 6 | EC000042 - Miniature circuit breaker (MCB) |

| | |
|---|---|
| ETIM 7 | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 8 | EC000042 - Miniature circuit breaker (MCB) |
| EPLAN Catalog Tree | Electrical engineering / Protection devices / General |
| EPLAN Function Definition | Circuit breaker / Triple circuit breaker / Triple circuit breaker 1_2_3_4_5_6 |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B | Business To Consumer |
| CN8 | 8536 20 10 |
| UNSPSC | 39121614 |
| eClass | V11.0 : 27141901 |
| Object Classification Code | F |

## Categories

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



