

# Miniature Circuit Breakers

## SH203L-C20

**ABB contact for Malaysia**

Low Voltage

### General Information

**Extended Product Type:** SH203L-C20  
**Product ID:** 2CDS243001R0204  
**EAN:** 4016779633536

**Catalog Description:**

Miniature Circuit Breakers MCBs - SH200L - Number of Poles 3 - Tripping characteristic C - Rated Current 20.00 A

**Long Description:**

Compact Home SH200L 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 4,5 kA at 230/400 V AC) and rated currents (up to 40 A). All MCBs of the product range SH200L comply with IEC/EN 60898-1, allowing the use for residential applications.

### Categories

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

### Ordering

**Extended Product Type:** SH203L-C20  
**Product ID:** 2CDS243001R0204  
**EAN:** 4016779633536  
**Minimum Order Quantity:** 1 piece  
**Country of Origin:** Germany (DE)

### Container Information

**Package Level 1 Units:** 1 piece  
**Package Level 1 Width:** 92.0 mm  
**Package Level 1 Length:** 58.0 mm  
**Package Level 1 Height:** 80.0 mm  
**Package Level 1 Gross Weight:** 0.400 kg

### Dimensions

**Product Net Width:** 52.5 mm  
**Product Net Depth:** 69.0 mm  
**Product Net Height:** 85.0 mm  
**Product Net Weight:** 0.375 kg

### Technical

**Standards:** IEC/EN 60898-1  
**Number of Poles:** 3  
**Tripping Characteristic:** C  
**Rated Current (  $I_n$  ):** 20.00 A  
**Rated Operational Voltage (  $U_e$  ):** 400 V AC  
**Rated Insulation Voltage (  $U_i$  ):** Phase to Ground 250 V AC  
Phase to Phase 500 V AC  
**Operational Voltage:** Maximum 440 V AC  
Minimum 12 V AC  
**Rated Frequency (  $f_r$  ):** 50 / 60 Hz  
**Rated Short-Circuit Capacity (  $I_{cn}$  ):** 4.5 kA  
**Energy Limiting Class:** 3  
**Overvoltage Category:** III  
**Pollution Degree:** 2  
**Rated Impulse Withstand Voltage (  $U_{imp}$  ):** 4 kV  
(6.2 kV @ sea level)

|                                                 |                                                                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 | (5.0 kV @ 2000 m)                                                                                                                                                                                     |
| <b>Dielectric Test Voltage:</b>                 | 50/60 Hz, 1 min.: 2 kV                                                                                                                                                                                |
| <b>Housing Material:</b>                        | Insulation group II, RAL 7035                                                                                                                                                                         |
| <b>Actuator Type:</b>                           | Insulation group II, black, sealable                                                                                                                                                                  |
| <b>Actuator Marking:</b>                        | I / O                                                                                                                                                                                                 |
| <b>Contact Position Indication:</b>             | ON / OFF                                                                                                                                                                                              |
| <b>Degree of Protection:</b>                    | IP20                                                                                                                                                                                                  |
| <b>Remarks:</b>                                 | IP40 in enclosure with cover                                                                                                                                                                          |
| <b>Electrical Endurance (N<sub>elec</sub>):</b> | 20000 ops. cycle                                                                                                                                                                                      |
| <b>Mechanical Endurance (N<sub>endu</sub>):</b> | 20,000 cycle                                                                                                                                                                                          |
| <b>Terminal Type:</b>                           | Screw Terminals                                                                                                                                                                                       |
| <b>Screw Terminal Type:</b>                     | Cable Clamp                                                                                                                                                                                           |
| <b>Connecting Capacity:</b>                     | Conductors: 25 / 25 mm <sup>2</sup><br>Rigid 0.75...25 mm <sup>2</sup><br>Stranded 0.75...25 mm <sup>2</sup><br>Flexible 0.75...16 mm <sup>2</sup><br>Flexible with Ferrule 0.75...16 mm <sup>2</sup> |
| <b>Tightening Torques:</b>                      | 2 N·m                                                                                                                                                                                                 |
| <b>Recommended Screw Driver:</b>                | Pozidrive 2                                                                                                                                                                                           |
| <b>Mounting on DIN Rail:</b>                    | 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                                                                                        |
| <b>Mounting Position:</b>                       | Any                                                                                                                                                                                                   |

### Environmental

|                                                            |                                                                 |
|------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Ambient Air Temperature:</b>                            | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C              |
| <b>Reference Temperature for Tripping Characteristics:</b> | 30 °C                                                           |
| <b>Resistance to Shock acc. to IEC 60068-2-27:</b>         | 25g, 3 shocks, 11 ms                                            |
| <b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>     | 5g, 20 cycles at 5...150...5 Hz with load 0.8 In                |
| <b>Environmental Conditions:</b>                           | 28 cycles<br>with 55 °C / 90-96%<br>and 25 °C / 95-100%         |
| <b>RoHS Status:</b>                                        | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

### Certificates and Declarations (Document Number)

|                                        |                 |
|----------------------------------------|-----------------|
| <b>Declaration of Conformity - CE:</b> | 2CDK403003D0401 |
| <b>Environmental Information:</b>      | 2CDK400030D0201 |
| <b>RoHS Information:</b>               | 2CDK400003K0201 |

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