# SH203-C40

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

## General Information

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|---|---|
| **Extended Product Type:** | SH203-C40 |
| **Product ID:** | 2CDS213001R0404 |
| **EAN:** | 4016779631419 |
| **Catalog Description:** | Miniature Circuit Breaker - SH200 - 3P - C - 40 ampere |
| **Long Description:** | Compact Home SH200 miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mech anism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C),<br>configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA a t 230/400 V AC) and rated currents (up to 40 A). All MCBs of the product r ange SH200 comply with IEC/EN 60898-1, allowing the use for residential applications. |

## Ordering

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| **Minimum Order Quantity:** | 1 piece |
| **Customs Tariff Number:** | 85362010 |

## Popular Downloads

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|---|---|
| **Data Sheet, Technical Information:** | 2CSC400003B0202 |
| **Instructions and Manuals:** | 2CSC400003B0202 |

## Dimensions

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|---|---|
| **Product Net Width:** | 52.5 mm |
| **Product Net Depth / Length:** | 69 mm |
| **Product Net Height:** | 85 mm |
| **Product Net Weight:** | 0.375 kg |

## Technical

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|---|---|
| **Standards:** | IEC/EN 60898-1 |
| **Number of Poles:** | 3 |
| **Tripping Characteristic:** | C |
| **Rated Current ($I_n$):** | 40 A |
| **Rated Operational Voltage:** | acc. to IEC 60898-1 400 V AC |
| **Power Loss:** | 14.4 W<br>at Rated Operating Conditions per Pole 4.8 W |
| **Rated Insulation Voltage ($U_i$):** | acc. to IEC/EN 60664-1 440 V |

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|---|---|
| **Operational Voltage:** | Maximum (Incl. Tolerance) 440 V AC<br>Maximum 440 V AC<br>Minimum 12 V AC |
| **Rated Frequency (f):** | 50 Hz<br>60 Hz |
| **Rated Short-Circuit Capacity ($I_{cn}$):** | (400 V AC) 6 kA |
| **Energy Limiting Class:** | 3 |
| **Overvoltage Category:** | III |
| **Pollution Degree:** | 2 |
| **Rated Impulse Withstand Voltage ($U_{imp}$):** | 4 kV<br>(6.2 kV @ sea level)<br>(5.0 kV @ 2000 m) |
| **Dielectric Test Voltage:** | 50 / 60 Hz, 1 min: 2 kV |
| **Housing Material:** | Insulation Group II, RAL 7035 |
| **Actuator Type:** | Toggle |
| **Contact Position Indication:** | ON / OFF |
| **Degree of Protection:** | IP20 |
| **Remarks:** | IP40 in enclosure with cover |
| **Electrical Endurance:** | 10000 AC cycle |
| **Mechanical Endurance ($N_{endu}$):** | 20000 cycle |
| **Terminal Type:** | Screw Terminals |
| **Screw Terminal Type:** | Cage Terminal |
| **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 |
| **Tightening Torque:** | 2 N·m |
| **Recommended Screw Driver:** | Pozidriv 2 |
| **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 |

## Environmental

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| **Ambient Air Temperature:** | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C |
| **Resistance to Shock acc. to IEC 60068-2-27:** | 25g / 2 shocks / 13 ms |
| **Resistance to Vibrations acc. to IEC 60068-2-6:** | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In |

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|---|---|
| **Environmental Conditions:** | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| **RoHS Status:** | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

## Certificates and Declarations (Document Number)

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|---|---|
| **Declaration of Conformity - CE:** | 2CDK400607D2703 |
| **Environmental Information:** | 2CDK400030D0201 |
| **Instructions and Manuals:** | 2CSC400003B0202 |
| **RoHS Information:** | 2CDK400003K0201 |

## Container Information

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|---|---|
| **Package Level 1 Units:** | 1 piece |
| **Package Level 1 Width:** | 92 mm |
| **Package Level 1 Depth / Length:** | 58 mm |
| **Package Level 1 Height:** | 80 mm |
| **Package Level 1 Gross Weight:** | 0.4 kg |
| **Package Level 1 EAN:** | 4016779631419 |
| **Package Level 2 EAN:** | 4016779990745 |

## Classifications

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|---|---|
| **Object Classification Code:** | F |
| **E-nummer:** | 2102927 |
| **ETIM 4:** | EC000042 - Miniature circuit breaker (MCB) |
| **ETIM 5:** | EC000042 - Miniature circuit breaker (MCB) |
| **ETIM 6:** | EC000042 - Miniature circuit breaker (MCB) |
| **ETIM 7:** | EC000042 - Miniature circuit breaker (MCB) |
| **eClass:** | 7.0 27141901 |
| **UNSPSC:** | 39121614 |


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