PRODUCT-DETAILS

# S203L-C20

## S203L-C20 Miniature Circuit Breaker - 3P - C - 20 A



### General Information

| | |
|---|---|
| Extended Product Type | S203L-C20 |
| Product ID | 2CDS243701R0204 |
| EAN | 4016779598583 |
| Catalog Description | S203L-C20 Miniature Circuit Breaker - 3P - C - 20 A |
| Long Description | S203L-C 20 MiniCircuitBreaker C-Char.,4,5kA,20A,3P |

### Technical

| | |
|---|---|
| Standards | IEC/EN 60898-1<br>IEC/EN 60947-2 |
| Tripping Characteristic | C |
| Rated Operational Voltage | acc. to IEC 60898-1 400 V AC<br>acc. to IEC 60898-1 400 V<br>acc. to IEC 60947-2 400 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 | 4 kV |

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| | |
|---|---|
| Withstand Voltage ($U_{imp}$) | 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 ($I_n$) | 20 A |
| Rated Short-Circuit Capacity | (AC) 4.5 kA<br>(DC) 4.5 kA<br>(400 V AC) 4.5 kA<br>(400 V) 4.5 kA |
| Rated Ultimate Short-Circuit Breaking Capacity ($I_{cu}$) | (230 V AC) 10 kA<br>(400 V AC) 6 kA<br>(230 V) 10 kA<br>(400 V) 6 kA |
| Rated Conditional Short-Circuit Current ($I_{nc}$) | (400 V) 6 kA |
| Rated Service Short-Circuit Breaking Capacity ($I_{cs}$) | (230 V AC) 7.5 kA<br>(400 V AC) 4.5 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 | 2.8 N·m |
| Actuator Type | Toggle |
| Mounting Type | DIN-Rail |
| Screw Terminal Type | Failsafe Bi-directional Cylinder-lift Terminal |
| Actuator Marking | I / O |
| Actuator Material | Insulation Group II, Black, Sealable |
| Housing Material | Insulation Group I, 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 | Busbar 10 / 10 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 |
| Wire Stripping Length | 12.5 mm |
| Terminal Type | Screw Terminals |

## Material Compliance

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|---|---|
| RoHS Information | 2CDK400003K0203 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

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| | |
|---|---|
| RoHS Date | 20161001 |
| REACH Declaration | 9AKK108468A9644 |
| REACH Information | True - contains substances > 0.1 mass percentage |
| REACH Date | 20231212 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |

## Environmental

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|---|---|
| Ambient Air Temperature | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C |
| Reference Ambient Air Temperature | 30 °C |
| Degree of Protection | IP20<br>IP40<br>Enclosure with Cover IP40 |
| Pollution Degree | 3 |
| 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 |

## Technical UL/CSA

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|---|---|
| Connecting Capacity UL/CSA | Busbar 18-8 AWG<br>Conductor 18-4 AWG |

## Dimensions

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|---|---|
| Width in Number of Modular Spacings | 3.0 |
| 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 | 0.125 kg |
| Built-In Depth ($t_2$) | 69 mm |
| Dimension Diagram | 2CDC022007F0010 |

## Ordering

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|---|---|
| Package Level 1 Units | carton 1 piece |
| Package Level 1 Gross Weight | 0.4 kg |

## Certificates and Declarations

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|---|---|
| Declaration of Conformity - CE | 2CDK403001D0607 |

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|---|---|
| $I^2t$ Characteristic | 9AKK107992A5102 |
| Certification Agency | EN<br>IEC |

## Installation

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|---|---|
| Instructions and Manuals | 2CDS207104P0002 |

## Popular Downloads

| | |
|---|---|
| Data Sheet, Technical Information | 9AKK107046A0423 |
| $I^2t$ Characteristic | 9AKK107992A5102 |

## Classifications

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|---|---|
| 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 |
| Object Classification Code | F |

## Categories

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

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