



 PRODUCT-DETAILS

S203-C80

Miniature Circuit Breaker - 3P - C - 80 A



General Information

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|-----------------------|--|
| Extended Product Type | S203-C80 |
| Product ID | 2CDS253001R0804 |
| EAN | 4016779916264 |
| Catalog Description | Miniature Circuit Breaker - 3P - C - 80 A |
| Long Description | S203-C80 Miniature Circuit Breaker C-Char., 6kA, 80A, 3P |

Technical

| | |
|--|---|
| Standards | IEC/EN 60898-1 IEC/EN 60947-2 |
| Tripping Characteristic | C |
| Rated Operational Voltage | acc. to IEC 60898-1 400 V AC acc. to IEC 60898-1 400 V acc. to IEC 60947-2 400 V AC |
| Operational Voltage | Maximum (Incl. Tolerance) 440 V AC 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 at Sea Level 6.2 kV |
| Dielectric Test Voltage | 50/60 Hz-1 min: 2 kV |
| Input Voltage Type | AC |
| Rated Current (I_n) | 80 A |
| Rated Short-Circuit Capacity | (AC) 6 kA (DC) 6 kA (230 V AC) 6 kA (400 V AC) 6 kA (400 V) 6 kA |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}) | (230 V AC) 10 kA (400 V AC) 6 kA (400 V) 6 kA |
| Rated Conditional Short-Circuit Current (I_{nc}) | (230 V) 10 kA (400 V) 20 kA |
| Rated Service Short-Circuit Breaking Capacity (I_{cs}) | (400 V AC) 6 kA |
| Rated Frequency (f) | 50 / 60 Hz |
| Power Loss | 39.2 W at Rated Operating Conditions per Pole 9.8 W |
| Power Supply Connection | Arbitrary |
| Contact Position Indication | ON / OFF |
| Energy Limiting Class | 3 |
| Electrical Endurance | 10000 AC cycle |
| Mechanical Endurance | 20000 cycle |
| Number of Poles | 3 |
| Number of Protected Poles | 3 |
| Overvoltage Category | III |
| Tightening Torque | 3 N·m |
| Actuator Type | Toggle |
| 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 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 16 / 16 mm ² Conductor 2.5 ... 50 mm ² Flexible 4 ... 35 mm ² Rigid 2.5 ... 50 mm ² Stranded 2.5 ... 50 mm ² |
| Installation Size | acc. to DIN 43880 1 |
| Terminal Type | Screw Terminals |

Material Compliance

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|-------------------|--|
| RoHS Information | 2CDK400601D2703 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date | 20200320 |
| REACH Declaration | 9AKK107492A1906 |

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|---|--|
| REACH Information | True - contains substances > 0.1 mass percentage |
| REACH Date | 20240821 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |

Environmental

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|--|---|
| Ambient Air Temperature | Operation -25 ... +55 °C Storage -40 ... +70 °C |
| Reference Ambient Air Temperature | 30 °C |
| Degree of Protection | IP20 IP40 Enclosure with Cover IP40 |
| Pollution Degree | 3 |
| Environmental Conditions | 28 cycles with 55 °C / 90-96 % 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 |

Dimensions

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|-------------------------------------|---------|
| Width in Number of Modular Spacings | 3.0 |
| Product Net Width | 52.5 mm |
| Product Net Height | 88 mm |
| Product Net Depth / Length | 69 mm |
| Product Net Weight | 0.42 kg |
| Built-In Depth (t ₂) | 69 mm |

Container Information

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|--------------------------------|----------------|
| 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 | 16 kg |
| Package Level 1 EAN | 4016779917704 |
| Package Level 2 Units | crate 36 piece |
| Package Level 2 Width | 275 mm |
| Package Level 2 Height | 210 mm |
| Package Level 2 Depth / Length | 395 mm |
| Package Level 2 Gross Weight | 13.36 kg |
| Package Level 2 EAN | 4016779919142 |

Ordering

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|------------------------|---------|
| Minimum Order Quantity | 1 piece |
| E-Number (Finland) | 3210635 |
| E-Number (Norway) | 1682953 |

Certificates and Declarations

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|-------------------------------------|-----------------|
| Certification Agency | EN IEC |
| Declaration of Conformity - CE | 2CDK400601D2703 |
| Declaration of Conformity - UKCA | 9AKK108467A5198 |

Installation

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|-----------------------------|-----------------|
| Instructions and Manuals | 2CDS207104P0002 |
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Popular Downloads

| | |
|--------------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK107680A3031 |
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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 90 |
| UNSPSC | 39121603 |
| eClass | V11.0 : 27141901 |
| IDEA Granular Category Code (IGCC) | 4897 >> Miniature circuit breakers |
| Object Classification Code | F |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|----------------------------|---------------|----------|-----------------|
| 2CDS200922R0001 | Signal / Auxiliary Contact | S2C-S/H6R | 1 | piece |
| 2CDS200912R0001 | Auxiliary Contact | S2C-H6R | 1 | piece |
| 2CDS200970R0001 | Auxiliary Contact | S2C-H01 | 1 | piece |
| 2CDS200970R0002 | Auxiliary Contact | S2C-H10 | 1 | piece |
| 2CDS200936R0001 | Auxiliary Contact | S2C-H11L | 1 | piece |
| 2CDS200936R0002 | Auxiliary Contact | S2C-H20L | 1 | piece |
| 2CDS200936R0003 | Auxiliary Contact | S2C-H02L | 1 | piece |
| 2CDS200946R0001 | Auxiliary Contact | S2C-H6-11R | 1 | piece |
| 2CDS200946R0002 | Auxiliary Contact | S2C-H6-20R | 1 | piece |
| 2CDS200946R0003 | Auxiliary Contact | S2C-H6-02R | 1 | piece |
| 2CDS200909R0001 | Shunt Trip | S2C-A1 | 1 | piece |
| 2CDS200909R0002 | Shunt Trip | S2C-A2 | 1 | piece |
| 2CSS200911R0001 | Undervoltage Release | S2C-UA 12 DC | 1 | piece |
| 2CSS200911R0002 | Undervoltage Release | S2C-UA 24 AC | 1 | piece |
| 2CSS200911R0003 | Undervoltage Release | S2C-UA 48 AC | 1 | piece |
| 2CSS200911R0004 | Undervoltage Release | S2C-UA 110 AC | 1 | piece |
| 2CSS200911R0005 | Undervoltage Release | S2C-UA 230 AC | 1 | piece |
| 2CSS200911R0006 | Undervoltage Release | S2C-UA 400 AC | 1 | piece |
| 2CSS200911R0007 | Undervoltage Release | S2C-UA 24 DC | 1 | piece |
| 2CSS200911R0008 | Undervoltage Release | S2C-UA 48 DC | 1 | piece |
| 2CSS200911R0009 | Undervoltage Release | S2C-UA 110 DC | 1 | piece |
| 2CSS200911R0010 | Undervoltage Release | S2C-UA 230 DC | 1 | piece |
| GHS2001901R0003 | Mechanical Accessories | S2C-DH | 1 | piece |
| 2CSS200998R0001 | Mechanical tripping device | S2C-BP | 1 | piece |
| 2CCA880100R0001 | Sensor | CMS-100PS | 1 | piece |
| 2CCA880101R0001 | Sensor | CMS-101PS | 1 | piece |
| 2CCA880102R0001 | Sensor | CMS-102PS | 1 | piece |

Categories

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



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