PRODUCT-DETAILS

# SN201-B20

## Miniature circuit breaker - 1+NP - B - 20 A



### General Information

| | |
|---|---|
| Extended Product Type | SN201-B20 |
| Product ID | 2CSS255101R0205 |
| EAN | 8012542091059 |
| Catalog Description | Miniature circuit breaker - 1+NP - B - 20 A |
| Long Description | The SN201 series miniature circuit breaker is a 1P+N device in 1 module for the protection of circuits against overload and short circuit. Neutral is on the right |

### ABB EcoSolutions

| | |
|---|---|
| ABB EcoSolutions | Yes |
| Circular Design Principles Recyclability Rate | Design for Closing Resource Loops - Standard EN45555 - 90.63 % |
| Sustainable Material Content in Packaging | Recycled Paper - 00 %<br>Recycled Cardboard - 79 % |
| Offered with Extended Lifetime | Product Durability |
| End of Life Instructions | 9AKK108469A7476 |
| Environmental Product | 9AKK108469A9820 |

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Declaration - EPD

## Technical

| | |
|---|---|
| Standards | IEC/EN 60898-1 |
| Tripping Characteristic | B |
| Rated Voltage ($U_r$) | 230 V AC |
| Rated Operational Voltage | acc. to IEC 60898-1 230 V |
| Rated Insulation Voltage ($U_i$) | acc. to IEC/EN 60664-1 500 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | 4 kV |
| Dielectric Test Voltage | 2 kV |
| Primary Rated Impulse Withstand Voltage | 4 kV |
| Input Voltage Type | AC |
| Rated Current ($I_n$) | 20 A |
| Rated Short-Circuit Capacity | (230 V) 6 kA |
| Rated Ultimate Short-Circuit Breaking Capacity ($I_{cu}$) | (230 V) 10 kA |
| Rated Service Short-Circuit Breaking Capacity ($I_{cs}$) | (230 V AC) 6 kA |
| Rated Frequency (f) | 50/60 Hz |
| Power Loss | 4.8 W |
| Power Supply Connection | Arbitrary |
| Contact Position Indication | Red ON / Green OFF |
| Energy Limiting Class | 3 |
| Electrical Endurance | 10000 cycle |
| Mechanical Endurance | 20000 cycle |
| Number of Protected Poles | 1 |
| Number of Poles | 1+N |
| Number of Modular Spacings per DIN Rail | 1 |
| Overvoltage Category | III |
| Position of Neutral Terminals | Right |
| Tightening Torque | 1.2 N·m |
| Accessory Type | Auxiliary contact<br>Signal contact / auxiliary contact<br>Shunt trip<br>Undervoltage release |
| Actuator Type | Toggle - Insulation group IIIA, black, sealable in ON-OFF positions |
| Housing Type | Insulation group II, RAL 7035 |
| Screw Terminal Type | Cage Terminal |
| Mounting Position | Any |
| Accessories Available | Yes |
| Connecting Capacity | Flexible 1 … 10 mm²<br>Rigid 1 … 16 mm² |
| Wire Stripping Length | 11 mm |
| Terminal Type | Screw Terminals |

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## Material Compliance

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|---|---|
| RoHS Information | 9AKK106713A5572 |
| RoHS Status | Following EU Directive 2011/65/EU |
| RoHS Date | 20190722 |
| REACH Information | No data - If REACH inform is not yet available for a certain product |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |

## Environmental

| | |
|---|---|
| Ambient Temperature | -25...55 °C |
| Ambient Air Temperature | Operation -25 … 55 °C |
| Reference Ambient Air Temperature | 30 °C |
| Degree of Protection | IP20 |
| Pollution Degree | 2 |
| 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 or 0.35mm 5 … 150 … 5 Hz |
| Resistance to Shock acc. to IEC 60068-2-27 | 30g 2 shocks 13 ms |
| Environmental Information | refer to RoHS information |

## Dimensions

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|---|---|
| Width in Number of Modular Spacings | 1 |
| Product Net Width | 0.018 m |
| Product Net Height | 0.085 m |
| Product Net Depth / Length | 0.069 m |
| Product Net Weight | 0.110 kg |
| Built-In Depth ($t_2$) | 69 mm |

## Ordering

| | |
|---|---|
| Package Level 1 Units | box 6 piece |
| Package Level 1 Gross Weight | 0.684 kg |
| E-Number (Finland) | 3217763 |
| E-Number (Norway) | 1630646 |

## Certificates and Declarations

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|---|---|
| Declaration of Conformity - CE | 9AKK106713A5572 |

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## Installation

| | |
|---|---|
| Instructions and Manuals | No document needed |

## Classifications

| | |
|---|---|
| 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 Consumer |
| CN8 | 85362010 |
| eClass | V11.0 : 27141901 |
| Object Classification Code | F |

## Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|---|---|---|---|---|
| 2CSS200924R0001 | Signal Contact | SN201-S | 1 | piece |
| 2CSS200923R0001 | Interface module with auxiliary contact | SN201-IH | 1 | piece |
| 2CDS200922R0001 | Signal / Auxiliary Contact | S2C-S/H6R | 1 | piece |
| 2CDS200912R0001 | Auxiliary Contact | S2C-H6R | 1 | piece |
| 2CSS200933R0011 | Shunt trip | F2C-A1 | 1 | piece |
| 2CSS200933R0012 | Shunt trip | F2C-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 |

## Categories

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

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