

## PRODUCT-DETAILS

# S202UDC-Z8

## S202UDC-Z8 Miniature Circuit Breaker - 2P - Z - 8 A



### General Information

|                       |   |
|-----------------------|---|
| Extended Product Type | S202UDC-Z8  |
| Product ID            | 2CDS272517R0408   |
| EAN                   | 4016779825429   |
| Catalog Description   | S202UDC-Z8 Miniature Circuit Breaker - 2P - Z - 8 A   |
| Long Description      | <p>System pro M compact S200UDC current limiting miniature circuit breakers are specially designed for DC applications in the scope of UL489.</p> <p>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 (K,Z), configurations (1P,2P) and rated currents (up to 63A).The Short-circuit current rating SCCR acc. UL489 is 14 kA. The S200UDC is suitable for DC voltages up to 125 VDC (2 pole). All MCBs of the product range S200UDC comply with UL489, allowing the use for commercial and industrial applications.</p> |

### Technical

|   |   |
|---|---|
| Standards   | UL 489  |
| Tripping Characteristic                             | Z   |
| Rated Operational Voltage                           | 125 V DC<br>acc. to IEC 60947-2 125 V         |
| Rated Insulation Voltage (U <sub>i</sub> )          | 440 V   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | 4 kV<br>at 2000 m 5 kV<br>at Sea Level 6.2 kV |
| Input Voltage Type                                  | DC  |

|   |  |
|---|--|
| Rated Current (I <sub>N</sub> )                                   | 8 A  |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )                   | (230 V AC) 14 kA   |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (230 V AC) 14 kA   |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> )        | (230 V) 14 kA  |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (230 V AC) 14 kA   |
| Rated Frequency (f)   | DC   |
| Power Loss  | 7 W<br>at Rated Operating Conditions per Pole 3.5 W  |
| Power Supply Connection   | Please Note Polarity of Device   |
| Contact Position Indication                                       | Red ON / Green OFF   |
| Energy Limiting Class   | 3<br>20000 cycle   |
| Number of Poles   | 2  |
| Number of Protected Poles   | 2  |
| Overvoltage Category  | III  |
| Tightening Torque   | 2.8 N·m  |
| 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  |
| Remarks   | Please note polarity of device   |
| Connecting Capacity   | Busbar 10 / 10 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup><br>Flexible 0.75 ... 16 mm <sup>2</sup><br>Rigid 0.75 ... 25 mm <sup>2</sup><br>Stranded 0.75 ... 25 mm <sup>2</sup> |
| Installation Size   | acc. to DIN 43880 2  |
| Terminal Type   | Double Clamp   |

## Environmental

|  |   |
|--|---|
| Ambient Air Temperature                        | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Degree of Protection                           | IP20<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 acc. to IEC 60068-2-6 | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In      |
| Resistance to Shock acc. to IEC 60068-2-27     | 30g / 3 shocks / 11 ms                                    |
| RoHS Status                                    | Following EU Directive 2011/65/EU                         |
| Environmental Information                      | 9AKK107680A6947   |

## Technical UL/CSA

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Maximum Operating Voltage UL/CSA   | 250 V DC                              |
| Interrupting Rating acc. to UL1077 | (125 V DC) 14 kA                      |
| Interrupting Rating acc. to UL489  | (125 V DC) 14 kA<br>(250 V DC) 14 kA  |
| Connecting Capacity UL/CSA         | Busbar 18-8 AWG<br>Conductor 18-4 AWG |
| Tightening Torque UL/CSA           | 25 in-lb                              |

## Dimensions

|                                     |         |
|-------------------------------------|---------|
| Width in Number of Modular Spacings | 2       |
| Product Net Width                   | 35 mm   |
| Product Net Height                  | 85 mm   |
| Product Net Depth / Length          | 69 mm   |
| Product Net Weight                  | 0.3 kg  |
| Pole Net Weight                     | 0.14 kg |
| Built-In Depth (t <sub>2</sub> )    | 69 mm   |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Units          | carton 5 piece |
| Package Level 1 Width          | 105 mm         |
| Package Level 1 Height         | 80 mm          |
| Package Level 1 Depth / Length | 183 mm         |
| Package Level 1 Gross Weight   | 1.55 kg        |
| Package Level 1 EAN            | 4016779825801  |

## Ordering

|                        |              |
|------------------------|--------------|
| Minimum Order Quantity | 1 piece      |
| Customs Tariff Number  | 85362010     |
| Country of Origin      | Germany (DE) |

## Certificates and Declarations (Document Number)

|                                |                    |
|--------------------------------|--------------------|
| Certification Agency           | UL                 |
| Declaration of Conformity - CE | 2CDK400630D2702    |
| Environmental Information      | 9AKK107680A6947    |
| Instructions and Manuals       | No document needed |
| RoHS Information               | 2CDK400630D2702    |

## Popular Downloads

|                                   |                    |
|-----------------------------------|--------------------|
| Data Sheet, Technical Information | No document needed |
| Instructions and                  | No document needed |

## Classifications

|                            |   |
|----------------------------|---|
| ETIM 7                     | EC000042 - Miniature circuit breaker (MCB)                                |
| ETIM 8                     | EC000042 - Miniature circuit breaker (MCB)                                |
| EPLAN Catalog Tree         | Electrical engineering / Protection devices / General                     |
| EPLAN Function Definition  | Circuit breaker / Double circuit-breaker / Double circuit breaker 1_2_3_4 |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm)                |
| WEEE B2C / B2B             | Business To Consumer  |
| CN8                        | 8536 20 10  |
| UNSPSC                     | 39121614  |
| eClass                     | V11.0 : 27141901  |
| Object Classification Code | F   |

## Accessories

| Identifier      | Description                         | Type      | Quantity | Unit Of Measure |
|-----------------|-------------------------------------|-----------|----------|-----------------|
| 2CDS200914R0001 | S2C-H6RU Auxiliary Contact          | S2C-H6RU  | 1        | piece           |
| 2CDS200924R0001 | S2C-S6RU Signal / Auxiliary Contact | S2C-S6RU  | 1        | piece           |
| 2CDS200908R0001 | S2C-A1U Shunt Trip                  | S2C-A1U   | 1        | piece           |
| 2CDS200908R0002 | S2C-A2U Shunt Trip                  | S2C-A2U   | 1        | piece           |
| 2CDS200917R0001 | S2C-TC20U Mechanical Accessories    | S2C-TC20U | 1        | piece           |

## Categories

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

