



## PRODUCT-DETAILS

# E880+251D100

## E880+251D100 High Performance MCB

### General Information

|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| Extended Product Type | E880+251D100                                                              |
| Product ID            | 2CCG000306R0001                                                           |
| EAN                   | 5413656649243                                                             |
| Catalog Description   | E880+251D100 High Performance MCB                                         |
| Long Description      | E880+251C100 High Performance MCB, 25 kA, 1 Pole, D characteristic, 100 A |

### Technical

|                                                             |                                                                      |
|-------------------------------------------------------------|----------------------------------------------------------------------|
| Standards                                                   | IEC/EN 60947-2<br>IEC/EN 60898-1                                     |
| Product Name                                                | High Performance MCB                                                 |
| Tripping Characteristic                                     | D                                                                    |
| Rated Voltage ( $U_r$ )                                     | 254/440 V AC<br>125 V DC                                             |
| Rated Operational Voltage                                   | 254/440 V AC<br>125 V DC                                             |
| Operational Voltage                                         | Maximum 230/400 V AC<br>Minimum 12 V AC                              |
| Rated Insulation Voltage ( $U_i$ )                          | acc. to IEC/EN 60664-1 500 V AC                                      |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )               | 8 kV                                                                 |
| Rated Current ( $I_n$ )                                     | 100 A                                                                |
| Rated Operational Current ( $I_e$ )                         | 100 A                                                                |
| Rated Short-Circuit Capacity ( $I_{cn}$ )                   | (230 / 400 V AC) 15 kA                                               |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (240 / 415 V AC) 25 kA<br>(254 / 440 V AC) 15 kA<br>(125 V DC) 10 kA |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (240 / 415 V AC) 18 kA<br>(254 / 440 V AC) 10 kA<br>(125 V DC) 10 kA |
| Frequency (f)                                               | 50 / 60 Hz                                                           |
| Rated Frequency (f)                                         | 50 ... 60 Hz                                                         |
| Power Loss                                                  | 8 W<br>at Rated Operating Conditions per Pole 8 W                    |
| Contact Position Indication                                 | ON / OFF / TRIP                                                      |
| Energy Limiting Class                                       | 3<br>4000 cycle                                                      |

|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Number of Poles          | 1                                                                                                                     |
| Overvoltage Category     | IV                                                                                                                    |
| Tightening Torque        | 3.5 N·m                                                                                                               |
| Actuator Marking         | I / O                                                                                                                 |
| 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                                                                                                            |
| Remarks                  | Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captille screw |
| Number of Batteries      | 0                                                                                                                     |
| Connecting Capacity      | Flexible 1 ... 50 mm <sup>2</sup><br>Stranded 1 ... 70 mm <sup>2</sup>                                                |
| Terminal Type            | Screw Terminals                                                                                                       |

## Environmental

|                                                |                                                                                                                                                                   |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference Ambient Air Temperature              | acc. to IEC60947-2 30 °C<br>acc. to EN60898-1 30 °C                                                                                                               |
| Degree of Protection                           | IP20                                                                                                                                                              |
| Pollution Degree                               | 3                                                                                                                                                                 |
| Environmental Conditions                       | Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle<br>55°C @ 90-96%<br>25°C @ 90-100%<br>Dry Heat Test B acc. to IEC 60068-2-2 16 hour @ 55 °C<br>2 hour @ 70 °C |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x 1e                                                                                                         |
| Resistance to Shock acc. to IEC 60068-2-27     | 5 g<br>30 ms                                                                                                                                                      |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 27 mm   |
| Product Net Height         | 95 mm   |
| Product Net Depth / Length | 82.5 mm |
| Product Net Weight         | 245 g   |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 105 mm        |
| Package Level 1 Height         | 99 mm         |
| Package Level 1 Depth / Length | 33 mm         |
| Package Level 1 Gross Weight   | 270 g         |
| Package Level 1 EAN            | 5413656649243 |

## Ordering

|                         |                  |
|-------------------------|------------------|
| Minimum Order Quantity  | 1 piece          |
| Customs Tariff Number   | 85362090         |
| Country of Origin       | Switzerland (CH) |
| Selling Unit of Measure | piece            |

| Certificates and Declarations (Document Number) |                       |
|-------------------------------------------------|-----------------------|
| Declaration of Conformity - CE                  | No declaration needed |
| Instructions and Manuals                        | No document needed    |

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

| Classifications            |                                                            |
|----------------------------|------------------------------------------------------------|
| ETIM 6                     | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 7                     | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 8                     | EC000042 - Miniature circuit breaker (MCB)                 |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B             | Business To Business                                       |
| CN8                        | 85362020                                                   |
| Object Classification Code | F                                                          |

| Categories                                                                   |
|------------------------------------------------------------------------------|
| Low Voltage Products and Systems → Modular DIN Rail Products → AEG → MCB AEG |