

## PRODUCT-DETAILS

# S-ARC1 M B25

## S-ARC1 M B25 Arc fault detection device integrated with MCB



### General Information

|                       |   |
|-----------------------|---|
| Extended Product Type | S-ARC1 M B25  |
| Product ID            | 2CSA275901R9255   |
| EAN                   | 8012542341413   |
| Catalog Description   | S-ARC1 M B25 Arc fault detection device integrated with MCB   |
| Long Description      | S-ARC1 M is a 1P+N arc fault detection device (AFDD) with an integrated MCB in two modules, for the protection against short-circuit currents, overload, earth arc faults, parallel arc faults and series arc faults. |

### Technical

|   |                                |
|---|--------------------------------|
| Standards                                     | IEC/EN 62606<br>IEC/EN 60898-1 |
| Tripping Characteristic                       | B                              |
| Rated Voltage ( $U_r$ )                       | 230 V                          |
| Rated Operational Voltage                     | 230...240 V AC                 |
| Rated Insulation Voltage ( $U_i$ )            | 500 V                          |
| Rated Impulse Withstand Voltage ( $U_{imp}$ ) | 4 kV                           |
| Dielectric Test Voltage                       | 2.5 kV                         |
| Primary Rated Impulse Withstand Voltage       | 4 kV                           |
| Auxiliary Voltage AC/DC                       | 230 V                          |

|   |  |
|---|--|
| Input Voltage Type  | AC   |
| Rated Current ( $I_n$ )                                     | 25 A   |
| Rated Short-Circuit Capacity                                | 10 kA  |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | 10 kA  |
| Rated Residual Breaking Capacity ( $I_{\Delta m}$ )         | 6000 A   |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )        | 10 kA  |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | 7.5 kA   |
| Rated Frequency (f)   | 50...60 Hz   |
| Power Loss  | 3.5 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 Poles   | 2  |
| Number of Protected Poles                                   | 1  |
| Number of Modular Spacings per DIN Rail                     | 2  |
| Operating Characteristic                                    | Instantaneous  |
| Overvoltage Category  | III  |
| Position of Neutral Terminals                               | Right  |
| Tightening Torque   | 2.8 N·m  |
| Accessory Type  | Auxiliary contact  Auxiliary/Signal contact  Shunt trip  Undervoltage release  Overvoltage release |
| Actuator Type   | Toggle - Insulation group II, Orange RAL 2004, sealable in ON-OFF-positions                        |
| Housing Type  | Insulation group I, RAL 7056   |
| Mounting Type   | DIN-Rail   |
| Screw Terminal Type   | Failsafe Bi-directional Cylinder-lift Terminal   |
| Options Provided  | -  |
| Includes  | Fire protection switch   |
| Mounting Position   | Any  |
| Accessories Available                                       | Yes  |
| Mounting Position of Accessories                            | Right  |
| Number of Batteries   | 0  |
| Cable Size  | 25 mm <sup>2</sup>   |
| Connecting Capacity   | Busbar 10 mm <sup>2</sup><br>Rigid 1...25 mm <sup>2</sup><br>Flexible 1...16 mm <sup>2</sup>       |
| Wire Stripping Length                                       | 12 mm  |
| Terminal Type   | Screw Terminals  |

## Environmental

|                         |  |
|-------------------------|--|
| Ambient Air Temperature | Operation -25 ... 55 °C<br>Storage -40 ... 70 °C |
|-------------------------|--|

|   |   |
|---|---|
| Reference Ambient Air Temperature                 | 30 °C   |
| Degree of Protection                              | Terminals IP20<br>Housing IP40                            |
| Pollution Degree                                  | 2   |
| Environmental Conditions                          | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| Resistance to Vibrations<br>acc. to IEC 60068-2-6 | 0.2mm or 5g - 20 cycles at 5...150 Hz                     |
| Resistance to Shock acc.<br>to IEC 60068-2-27     | 30g / 2 shocks / 13 ms                                    |
| RoHS Status                                       | Following EU Directive 2011/65/EU                         |
| RoHS Information                                  | 9AKK107045A1564   |
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108468A3363   |

## Dimensions

|                                     |          |
|-------------------------------------|----------|
| Width in Number of Modular Spacings | 2        |
| Product Net Width                   | 0.035 m  |
| Product Net Height                  | 0.085 m  |
| Product Net Depth / Length          | 0.069 m  |
| Product Net Weight                  | 0.180 kg |
| Built-In Depth (t <sub>2</sub> )    | 69 mm    |

## Ordering

|                              |             |
|------------------------------|-------------|
| Minimum Order Quantity       | 1 piece     |
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 0.200 kg    |
| Customs Tariff Number        | 85363030    |
| Country of Origin            | Italy (IT)  |

## Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 9AKK107045A1563 |
| IMQ Certificate                | 9AKK107045A4216 |
| KC Certificate                 | 9AKK108466A5925 |
| VDE Certificate                | 9AKK107045A7202 |

## Popular Downloads

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 2CDC420032D0201                    |
| Instructions and Manuals          | 9AKK106930A8985<br>9AKK106930A8986 |
| Mechanical Drawings               | 9AKK106930A8988<br>9AKK106930A8989 |

## Classifications

|                            |  |
|----------------------------|--|
| ETIM 8                     | EC002694 - Miniature circuit breaker (MCB) with auxiliary device |
| ETIM 9                     | EC002694 - Miniature circuit breaker (MCB) with auxiliary device |
| EPLAN Catalog Tree         | Electrical engineering / Protection devices / General            |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm)       |
| WEEE B2C / B2B             | Business To Consumer   |
| CN8                        | 85363030   |
| eClass                     | V11.0 : 27141906   |
| Object Classification Code | F  |

## Accessories

| Identifier      | Description                          | Type          | Quantity | Unit Of Measure |
|-----------------|--------------------------------------|---------------|----------|-----------------|
| 2CSS200933R0011 | F2C-A1 Shunt trip                    | F2C-A1        | 1        | piece           |
| 2CSS200933R0012 | F2C-A2 Shunt trip                    | F2C-A2        | 1        | piece           |
| 2CDS200912R0001 | S2C-H6R Auxiliary Contact            | S2C-H6R       | 1        | piece           |
| 2CDS200946R0001 | S2C-H6-11R Auxiliary Contact         | S2C-H6-11R    | 1        | piece           |
| 2CDS200946R0002 | S2C-H6-20R Auxiliary Contact         | S2C-H6-20R    | 1        | piece           |
| 2CDS200946R0003 | S2C-H6-02R Auxiliary Contact         | S2C-H6-02R    | 1        | piece           |
| 2CDS200922R0001 | S2C-S/H6R Signal / Auxiliary Contact | S2C-S/H6R     | 1        | piece           |
| 2CSS200911R0001 | S2C-UA 12 DC Undervoltage release    | S2C-UA 12 DC  | 1        | piece           |
| 2CSS200911R0002 | S2C-UA 24 AC Undervoltage release    | S2C-UA 24 AC  | 1        | piece           |
| 2CSS200911R0003 | S2C-UA 48 AC Undervoltage release    | S2C-UA 48 AC  | 1        | piece           |
| 2CSS200911R0004 | S2C-UA 110 AC Undervoltage release   | S2C-UA 110 AC | 1        | piece           |
| 2CSS200911R0005 | S2C-UA 230 AC Undervoltage release   | S2C-UA 230 AC | 1        | piece           |
| 2CSS200911R0006 | S2C-UA 400 AC Undervoltage release   | S2C-UA 400 AC | 1        | piece           |
| 2CSS200911R0007 | S2C-UA 24 DC Undervoltage release    | S2C-UA 24 DC  | 1        | piece           |
| 2CSS200911R0008 | S2C-UA 48 DC Undervoltage release    | S2C-UA 48 DC  | 1        | piece           |
| 2CSS200911R0009 | S2C-UA 110 DC Undervoltage release   | S2C-UA 110 DC | 1        | piece           |
| 2CSS200911R0010 | S2C-UA 230 DC Undervoltage release   | S2C-UA 230 DC | 1        | piece           |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Protection Against Arc Faults AFDDs → Arc Fault Detection Devices with Integrated Overcurrent Protection - AFDD+MCB

