



PRODUCT-DETAILS

# S-ARC1 B10

## S-ARC1 B10 Arc fault detection device integrated with MCB



| General Information   |   |
|-----------------------|---|
| Extended Product Type | S-ARC1 B10  |
| Product ID            | 2CSA255901R9105   |
| EAN                   | 8012542178132   |
| Catalog Description   | S-ARC1 B10 Arc fault detection device integrated with MCB   |
| Long Description      | S-ARC1 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 Operational Voltage                           | 230...240 V AC                 |
| Rated Insulation Voltage (U <sub>i</sub> )          | 500 V                          |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | 4 kV                           |
| Dielectric Test Voltage                             | 2.5 kV                         |
| Input Voltage Type                                  | AC                             |

|   |  |
|---|--|
| Rated Current (I <sub>n</sub> )                                   | 10 A   |
| Rated Short-Circuit Capacity                                      | 6 kA   |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | 7.5 kA   |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | 6 kA   |
| Rated Frequency (f)   | 50...60 Hz   |
| Power Loss  | 2.0 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                           | 2  |
| Operating Characteristic  | Instantaneous  |
| Overvoltage Category  | III  |
| Position of Neutral Terminals                                     | Right  |
| Tightening Torque   | 2.8 N·m  |
| Accessory Type  | Auxiliary contact<br>Auxiliary/Signal contact<br>Shunt trip<br>Undervoltage release<br>Overvoltage release |
| Actuator Type   | Toggle - Insulation group II, Orange RAL 2004, sealable in ON-OFF-positions                                |
| Housing Type  | Insulation group I, RAL 7035   |
| Mounting Type   | DIN-Rail   |
| Screw Terminal Type   | Failsafe Bi-directional Cylinder-lift Terminal   |
| Includes  | Fire protection switch   |
| Mounting Position   | Any  |
| Accessories Available   | Yes  |
| Mounting Position of Accessories                                  | Right  |
| Number of Batteries   | 0  |
| Connecting Capacity   | Busbar 10 mm²<br>Rigid 1...25 mm²<br>Flexible 1...16 mm²   |
| Wire Stripping Length   | 12 mm  |
| Terminal Type   | Screw Terminals  |

Material Compliance

|   |                                   |
|---|-----------------------------------|
| RoHS Information                            | 9AKK107045A1564                   |
| RoHS Status                                 | Following EU Directive 2011/65/EU |
| RoHS Date                                   | 20170621                          |
| REACH Declaration                           | 9AKK108467A9482                   |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                   |

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                   | 20 Cycles with Load 0.8 In: 5g or 0.2mm 5 ... 150 Hz      |
| Resistance to Shock acc. to IEC 60068-2-27 | 30g 2 shocks 13 ms  |

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                  | 0.180 kg        |
| Built-In Depth (t <sub>2</sub> )    | 69 mm           |
| Dimension Diagram                   | 9AKK106930A8989 |

Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 0.200 kg    |
| E-Number (Finland)           | 3211000     |
| E-Number (Sweden)            | 2100129     |

Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 9AKK107045A1563 |
| IMQ Certificate                | 9AKK107045A1660 |
| KC Certificate                 | 9AKK108466A5923 |
| VDE Certificate                | 9AKK107045A6736 |

Installation

|                          |                                    |
|--------------------------|------------------------------------|
| Instructions and Manuals | 9AKK106930A8985<br>9AKK106930A8986 |
|--------------------------|------------------------------------|

Popular Downloads

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 2CDC420032D0201                    |
| 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 |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm)       |

|                            |                      |
|----------------------------|----------------------|
| WEEE B2C / B2B             | Business To Consumer |
| CN8                        | 85363010             |
| 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

