



 PRODUCT-DETAILS

DS-ARC1 C6 A30 240V

Arc fault detection device integrated with RCBO



General Information

| | |
|-----------------------|--|
| Extended Product Type | DS-ARC1 C6 A30 240V |
| Product ID | 2CSA255107R1064 |
| EAN | 8012542381358 |
| Catalog Description | Arc fault detection device integrated with RCBO |
| Long Description | DS-ARC1 is a 1P+N arc fault detection device (AFDD) with an integrated RCBO in three modules, for the protection against earth arc faults, parallel arc faults, series arc faults, overvoltage, short-circuit currents, overload, earth fault currents. Version with 240V market for AU market |

Technical

| | |
|---------------------------|--|
| Standards | IEC/EN 62606 IEC/EN 61009-1 IEC/EN 61009-2-1 |
| Tripping Characteristic | C |
| Type of Residual Current | Type A |
| Rated Operational Voltage | 240 V AC |
| Rated Insulation Voltage | 500 V |

(U_i)

| | |
|---|--|
| Test Voltage (U _t) | 170 ... 264 V |
| Rated Impulse Withstand Voltage (U _{imp}) | 4 kV |
| Dielectric Test Voltage | 2.5 kV |
| Input Voltage Type | AC |
| Rated Current (I _n) | 6 A |
| Rated Residual Current | 30 mA |
| Rated Short-Circuit Capacity | 6 kA |
| Rated Ultimate Short-Circuit Breaking Capacity (I _{cu}) | 7.5 kA |
| Rated Residual Breaking Capacity (I _{Δm}) | 6 kA |
| Rated Service Short-Circuit Breaking Capacity (I _{cs}) | 6 kA |
| Rated Frequency (f) | 50 ... 60 Hz |
| Power Loss | 2.5 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 Protected Poles | 1 |
| Number of Poles | 1+N |
| Number of Modular Spacings per DIN Rail | 3 |
| Fault Indication | Blue flag on toggle |
| 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 Bottom fitting auxiliary contact |
| 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 |
| Options Provided | - |
| Mounting Position | Any |
| Accessories Available | Yes |
| Number of Batteries | 0 |
| Connecting Capacity | Busbar 10 mm ² Rigid 1...25 mm ² Flexible 1...16 mm ² |
| Wire Stripping Length | 12 mm |
| Terminal Type | Screw Terminals |

Material Compliance

| | |
|---|--|
| RoHS Information | 9AKK107046A6530 |
| RoHS Status | Following EU Directive 2011/65/EU |
| RoHS Date | 20180903 |
| REACH Declaration | 9AKK108467A9482 |
| REACH Information | True - contains substances > 0.1 mass percentage |
| REACH Date | 20240429 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |

Environmental

| | |
|--|---|
| Ambient Air Temperature | Operation -25 ... 55 °C Storage -40 ... 70 °C |
| Reference Ambient Air Temperature | 30 °C |
| Degree of Protection | Terminals IP20 Housing IP40 |
| Pollution Degree | 2 |
| Environmental Conditions | 28 cycles with 55 °C / 90-96 % 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 | 3 |
| Product Net Width | 52.5 mm |
| Product Net Height | 85 mm |
| Product Net Depth / Length | 69 mm |
| Product Net Weight | 0.240 kg |
| Built-In Depth (t ₂) | 69 mm |
| Dimension Diagram | 9AKK107046A6174 |

Ordering

| | |
|------------------------------|-------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Gross Weight | 0.270 kg |

Certificates and Declarations

| | |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 9AKK107046A6529 |
| IMQ Certificate | 9AKK107046A6176 |
| KC Certificate | 9AKK108466A5926 |
| VDE Certificate | 9AKK107046A6538 |

Installation

| | |
|--------------------------|------------------------------------|
| Instructions and Manuals | 9AKK107046A6173 9AKK106930A8986 |
|--------------------------|------------------------------------|

Popular Downloads

| | |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 9AKK107046A7200 |
| Mechanical Drawings | 9AKK107046A6174 9AKK107046A6175 |

Classifications

| | |
|----------------------------|--|
| ETIM 8 | EC002695 - Earth leakage circuit breaker with auxiliary device |
| ETIM 9 | EC002695 - Earth leakage circuit breaker 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 : 27142213 |
| Object Classification Code | F |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|----------------------------|---------------|----------|-----------------|
| 2CDS200922R0001 | Signal / Auxiliary Contact | S2C-S/H6R | 1 | piece |
| 2CDS200912R0001 | Auxiliary Contact | S2C-H6R | 1 | piece |
| 2CDS200946R0001 | Auxiliary Contact | S2C-H6-11R | 1 | piece |
| 2CDS200946R0002 | Auxiliary Contact | S2C-H6-20R | 1 | piece |
| 2CDS200946R0003 | Auxiliary Contact | S2C-H6-02R | 1 | piece |
| 2CSS200933R0011 | Shunt trip | F2C-A1 | 1 | piece |
| 2CSS200933R0012 | Shunt trip | F2C-A2 | 1 | piece |
| 2CSS200910R0005 | Overvoltage Release | S2C-OVP1 | 1 | piece |
| 2CSS200993R0005 | Overvoltage Release | S2C-OVP2 | 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 |
| 2CDS200970R0031 | Auxiliary Contact | S2C-H01 | 1 | piece |
| 2CDS200970R0032 | Auxiliary Contact | S2C-H10 | 1 | piece |
| 2CDS200970R0041 | Auxiliary Contact | S2C-H0115X | 1 | piece |
| 2CDS200970R0042 | Auxiliary Contact | S2C-H1015X | 1 | piece |

Categories

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

