

PRODUCT-DETAILS

DS-ARC1 C20 A30

DS-ARC1 C20 A30 Arc fault detection device integrated with RCBO



General Information

Extended Product Type	DS-ARC1 C20 A30
Product ID	2CSA255103R1204
EAN	8012542735113
Catalog Description	DS-ARC1 C20 A30 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

Technical

Standards	IEC 62606 EN 62606 IEC 61009-1 EN 61009-1 IEC 61009-2-1 EN 61009-2-1
Product Name	Arc fault detection device integrated with RCBO
Tripping Characteristic	C
Type of Residual Current	Type A
Rated Voltage (U_r)	230 V
Rated Operational Voltage	230-240 V AC
Rated Insulation Voltage	500 V AC

(U_I)

Test Voltage (U _t)	170 ... 264 V
Dielectric Test Voltage	2.5 kV
Primary Rated Impulse Withstand Voltage	4 kV
Auxiliary Voltage AC/DC	230 V
Rated Current (I _n)	20 A
Rated Residual Current	30 mA
Rated Short-Circuit Capacity (I _{cn})	6 kA
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	7.5 kA
Rated Residual Breaking Capacity (I _{Δm})	6000 A
Rated Conditional Short-Circuit Current (I _{nc})	7.5 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs})	6 kA
Leakage Current Type	A
Frequency (f)	50 Hz
Rated Frequency (f)	50...60 Hz
Power Loss	4.2 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 cycle 20000 cycle
Number of Poles	2
Number of Protected Poles	1
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 Signal contact / auxiliary contact Shunt trip Undervoltage release Overvoltage release Auxiliary contact for bottom fitting
Actuator Type	Toggle - Insulation group II, Orange RAL 2004, sealable in ON-OFF-positions
Housing Type	Insulation group I, RAL 7035
Mounting Type	on DIN rail EN 60715 (35 mm) by means of mounting clip
Release Type	C
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Options Provided	-
Mounting Position	Any

Accessories Available	Yes
Mounting Position of Accessories	Right
Cable Size	25 mm ²
Connecting Capacity	Busbar 10 mm ² Rigid 1 ... 25 mm ² Flexible 1 ... 25 mm ²
Wire Stripping Length	12 mm
Terminal Type	Screw Terminals

Environmental

Ambient Air Temperature	Operation -25 ... 55 °C Storage -40 ... 70 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	Housing IP40 Terminals IP20
Pollution Degree	2
Environmental Conditions	69 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations acc. to IEC 60068-2-6	0.2 mm or 5 g - 20 cycles at 5...150...5 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g / 2 shocks / 13 ms
RoHS Status	Following EU Directive 2011/65/EU

Dimensions

Width in Number of Modular Spacings	3
Product Net Width	0.0525 m
Product Net Height	0.085 m
Product Net Depth / Length	0.069 m
Product Net Weight	0.240 kg
Built-In Depth (t ₂)	69 mm

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	0.056 m
Package Level 1 Height	0.095 m
Package Level 1 Depth / Length	0.079 m
Package Level 1 Gross Weight	0.270 kg
Package Level 1 EAN	8012542735113

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85363030
E-Number (Finland)	3211096
Country of Origin	Italy (IT)
Selling Unit of Measure	piece

Certificates and Declarations (Document Number)

Declaration of Conformity - CE	9AKK107046A6529
Instructions and Manuals	9AKK107046A6173 9AKK106930A8986
RoHS Information	9AKK107046A6530

Popular Downloads

Data Sheet, Technical Information	9AKK107046A7200
Instructions and Manuals	9AKK107046A6173 9AKK106930A8986

Classifications

ETIM 6	EC002695 - Earth leakage circuit breaker with auxiliary device
ETIM 7	EC002695 - Earth leakage circuit breaker with auxiliary device
ETIM 8	EC002695 - Earth leakage circuit breaker 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
Object Classification Code	F

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

