



PRODUCT-DETAILS

DS-ARC1 B20 A30

DS-ARC1 B20 A30 Arc fault detection device integrated with RCBO



General Information

Extended Product Type	DS-ARC1 B20 A30
Product ID	2CSA255103R1205
EAN	8012542736318
Catalog Description	DS-ARC1 B20 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/EN 62606 IEC/EN 61009-1 IEC/EN 61009-2-1
Tripping Characteristic	B
Type of Residual Current	Type A
Rated Operational Voltage	230...240 V AC
Rated Insulation Voltage (U _i)	500 V
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)	20 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	4.2 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
Mounting Position	Any
Accessories Available	Yes
Mounting Position of Accessories	Right
Number of Batteries	0
Connecting Capacity	Busbar 10 mm² Rigid 1...25 mm² Flexible 1...16 mm²
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
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
E-Number (Finland)	3211087

Certificates and Declarations	
Declaration of Conformity - CE	9AKK107046A6529
IMQ Certificate	9AKK107046A6176
KC Certificate	9AKK108466A5927
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	85363030	
eClass	V11.0 : 27142213	
Object Classification Code	F	

Accessories				
Identifier	Description	Type	Quantity	Unit Of Measure
2CDS200912R0001	S2C-H6R Auxiliary Contact	S2C-H6R	1	piece
2CDS200922R0001	S2C-S/H6R Signal / Auxiliary Contact	S2C-S/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
2CDS200970R0001	S2C-H01 Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0002	S2C-H10 Auxiliary Contact	S2C-H10	1	piece
2CDS200970R0031	S2C-H01 Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0032	S2C-H10 Auxiliary Contact	S2C-H10	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
2CSS200933R0011	F2C-A1 Shunt trip	F2C-A1	1	piece
2CSS200933R0012	F2C-A2 Shunt trip	F2C-A2	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

