



PRODUCT-DETAILS

S-ARC1 B20

S-ARC1 B20 Arc fault detection device integrated with MCB



General Information	
Extended Product Type	S-ARC1 B20
Product ID	2CSA255901R9205
EAN	8012542749936
Catalog Description	S-ARC1 B20 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 IEC/EN 60898-1
Tripping Characteristic	B
Rated Operational Voltage	230...240 V AC
Rated Insulation Voltage (U _i)	500 V
Rated Impulse Withstand Voltage (U _{imp})	4 kV

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Dielectric Test Voltage	2.5 kV
Input Voltage Type	AC
Rated Current (I _n)	20 A
Rated Short-Circuit Capacity	6 kA
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	7.5 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs})	6 kA
Rated Frequency (f)	50...60 Hz
Power Loss	3.6 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 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 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 Rigid 1...25 mm² 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 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	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 ₂)	69 mm
Dimension Diagram	9AKK106930A8989

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.200 kg
E-Number (Finland)	3211015
E-Number (Sweden)	2100137

Certificates and Declarations

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

Installation

Instructions and Manuals	9AKK106930A8985 9AKK106930A8986
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Popular Downloads	
Data Sheet, Technical Information	2CDC420032D0201
Mechanical Drawings	9AKK106930A8988 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	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

