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PRODUCT-DETAILS

### **S-ARC1 C25**

# S-ARC1 C25 Arc fault detection device integrated with MCB



General Information		
Extended Product Type	S-ARC1 C25	
Product ID	2CSA255901R9254	
EAN	8012542374114	
Catalog Description	S-ARC1 C25 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	

ABB EcoSolutions	
ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108471A1002
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 81.91 %
ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
Extended Product Lifetime	Product Durability
End Of Life	9AKK108469A4799

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Disassembling Instructions

Environmental Product	9AKK108468A8866
Declaration - EPD	

Technical	
Dielectric Test Voltage	2.5 kV
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
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	1P+N
Number of Modular Spacings per DIN Rail	2
Operating Characteristic	Instantaneous
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
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Includes	Fire protection switch
Accessories Available	Yes
Mounting Position of Accessories	Right
Number of Batteries	0
Connecting Capacity	Busbar 10 mm² Rigid 125 mm² Flexible 116 mm²
Wire Stripping Length	12 mm
Terminal Type	Screw Terminals

Electrical	
Tripping Characteristic	С
Rated Operational Voltage	230240 V AC
Rated Insulation Voltage (U <sub>1</sub> )	500 V
Rated Impulse	4 kV

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Withstand	Voltage	(U <sub>imp</sub>

Overvoltage Category

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Input Voltage Type	AC
Rated Current (I <sub>n</sub> )	25 A
Rated Short-Circuit Capacity	6 kA
Rated Frequency (f)	50 Hz
Power Loss	Total 3.5 W

## Design Number of Modules 2

Material Compliance	
RoHS Declaration	9AKK107045A1564
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20170621
REACH Declaration	9AKK108467A9482
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer

Environmental	
Ambient Air	Operation -25 55 °C
Temperature	Storage -40 70 °C
Reference Ambient Air	30 °C
Temperature	
Degree of Protection	Terminals IP20
	Housing IP40
Pollution Degree	2
Environmental	28 cycles
Conditions	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	180 g
Built-In Depth (t <sub>2</sub> )	69 mm

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Dimension Diagram 9AKK106930A8989

Ordering	
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.200 kg

Certificates and Declarations	
Declaration of	9AKK107045A1563
Conformity - CE	
IMQ Certificate	9AKK107045A1660
KC Certificate	9AKK108466A5925
VDE Certificate	9AKK107045A6736

Installation			
Instructions and Manuals	9AKK106930A8985 9AKK106930A8986		
Mounting Type	DIN-Rail		
Mounting Position	Any		

Popular Downloads	
Data Sheet, Technical Information	2CDC420032D0201
Mechanical Drawings	9AKK106930A8988 9AKK106930A8989

External Classifications and Standards			
ETIM 9	EC002694 - Miniature circuit breaker (MCB) with auxiliary device		
ETIM 10	EC002694 - Miniature circuit breaker (MCB) with auxiliary device		
eClass	V11.0 : 27141906		
Object Classification Code	F		
Standards	IEC/EN 62606		
	IEC/EN 60898-1		

#### Accessories

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Identifier	Description	Туре	Quantity	Unit Of Measure
2CDS200912R0001	S2C-H6R Auxiliary Contact 1CO	S2C-H6R	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary contact 1NO/1NC	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary contact 2NO	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary contact 2NC	S2C-H6-02R	1	piece
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	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 releases	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 releaseS	S2C-UA 110 DC	1	piece
2CSS200911R0010	S2C-UA 230 DC Undervoltage release	S2C-UA 230 DC	1	piece

### Categories

 $Low\ Voltage\ Products\ and\ Systems\ \rightarrow\ Modular\ DIN\ Rail\ Products\ \rightarrow\ Protection\ Against\ Arc\ Fault\ AFDDs\ \rightarrow\ Arc\ Fault\ Detection\ Devices\ with\ Integrated\ Overcurrent\ Protection\ -\ AFDD+MCB$ 

