



Maximum safety and easy installation

Arc fault detection devices with integrated MCB and RCBO



- Complete protection against arc faults, overcurrent and earth faults
- Easy cross-wiring and installation
- Supply possible from both top and bottom side
- Family feeling in the System pro M compact® range
- LED for an easy troubleshooting of the network
- equipped also with memory recall function

Maximum safety in buildings

Extended fire protection in the electrical installation with AFDDs



Comprehensively protect people, irreplaceable goods and buildings – easier, better, safer. Extended fire protection in the electrical installation with ABB's arc fault detection devices (AFDD) S-ARC1 and DS-ARC1

01 The S-ARC1 and DS-ARC1 reliably protect against arc faults. Each year over two million fires erupt all over Europe. More than one third of these due to faults in the electrical installation which prevailingly occur as a result of dangerous arc faults.

The best comprehensive protection

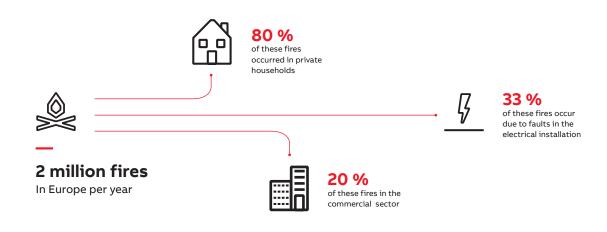
According to the product standard "IEC 62606 – General requirements for Arc Fault Detection Devices" an AFDD is a device intended to mitigate the effects of arcing faults by disconnecting the circuit when an arc fault is detected. This product standard is partially derived from the UL 1699 standard.

ABB's arc fault detection devices provide maximum safety in all buildings, thus protecting people and valuable assets. By early detecting arc faults and disconnecting the affected circuit they offer reliable and complete protection in any type of building.

ABB offers two different versions:

- AFDD with integrated MCB: S-ARC1 (6 A to 40 A)
- AFDD with integrated RCBO: DS-ARC1 (6 A to 20 A)

Both versions are integrated into ABB's proven System Pro M compact® range of modular DIN rail devices.



Protection for people and irreplaceable goods

Maximum safety in all kinds of applications

The majority of fires in buildings are caused by faults in the electrical installation. These fires are mainly caused by dangerous arc faults. The solution: S-ARC1 and DS-ARC1

01 Areas of application for AFDDs Bedrooms and common rooms in nurseries

02 Areas of application for the AFDDs Paper manufacturing plants, printers

03 Causes of fire in Germany (2015)

S-ARC1 and DS-ARC1 provide maximum safety in all buildings, thus protecting people and valuable assets. By early detecting arc faults and disconnecting the affected circuit the AFDD's with integrated MCB or RCBO offers reliable and complete protection in any type of building.

Safety in many building types

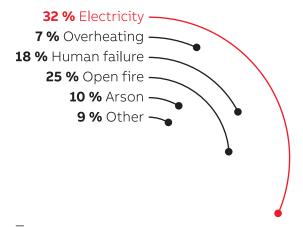
According to the wiring regulation IEC 60364-4-42, an arc fault detection device is strongly recommended in particular applications, as per example:

· Sleeping and common rooms

- in nurseries
- in senior and care homes
- in equipment for disabled persons
- Places and rooms with existing fire risks and flammable materials, such as for example in production facilities, barns, carpenter workshops, paper manufacturing plants or printing shops where the fire risk is high
- Places and rooms with prevailingly flammable building materials like wood houses, flammable buildings or forced ventilation systems
- Places and rooms with irreplaceable goods (cultural assets), such as those in museums, libraries, galleries, archives or architectural monuments

Recommendation for any room

The use of the AFDD is additionally recommended in any rooms with sleeping facilities in private apartments, houses, hospitals (does not apply in medically used areas) and hotels. This also includes places with a fire-disseminating structure, such as the chimney effect in high-rise buildings or final circuits with high connected load, e.g. dishwashers, washing machines or dryers.





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Early detection for extended protection against fires

AFDDs close the protection gap against arc faults

01 Series arc faults occur when a conductor is disrupted.

02 Parallel arc faults occur between external conductors and protection of neutral conductors.

03 The ABB's AFDDs detects arc faults against ground.

04 A damaged line and insulation can lead to a fire risk through a series arc fault.

05 Loose contact in an incorrectly connected flush-mounted outlet can lead to a fire risk through a serial arc fault

06 Scorched faulty installation or terminal connection of a flushmounted outlet.

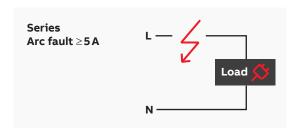
The arc fault detection device (AFDD) detects series arc faults (current is flowing within one conductor of the final circuit), parallel arc faults (current is flowing between active conductors in parallel with the load of the circuit) and earth arc faults (current is flowing from active conductor to the earth).

Disruptions in the electrical installation

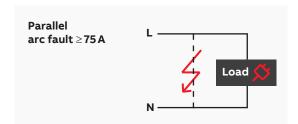
Series arc faults occur when a conductor is disrupted, parallel arc faults in the case of contact between phase and neutral conductors or in the case of contact between phase and protective conductors.

The most frequent causes of the development of arc faults are:

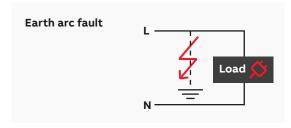
- · Damaged insulation, e.g. by screws or nails
- Trapped cables in doors and windows
- Incorrect installation
- Cable breakage due to e.g. bend radii which are too narrow and mounting clips which are too tight
- UV radiation and rodent damage to cables in the outdoor areas
- Loose contacts and connections, for example in poorly installed switches/outlets or multiple sockets
- Snapped plugs and cables, e.g. due to carelessly moved furniture



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— 03

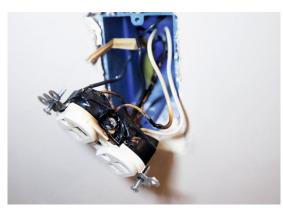
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01 Security in buildings with flammable materials With AFDDs many hazards triggered by disruptions in the electrical installation are detected in advance. Thus, the existing gap of protection against arc faults is closed, leading to complete safety in buildings for persons, investments and irreplaceable goods.

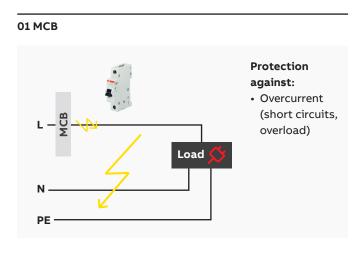
In case the overvoltage level exceeds 275 V, both S-ARC1 and DS-ARC1 are equipped with an overvoltage protection. In addition, DS-ARC1 also offers protection against earth fault currents.

Earth Fault current

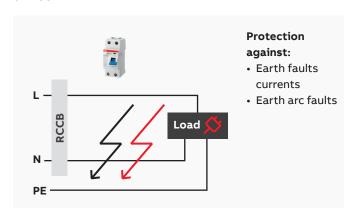
With S-ARC1 people and valuable assets With DS-ARC1 people and valuable assets are protected against: are protected against: Series arc faults Series arc faults Parallel arc faults Parallel arc faults Earth arc faults Earth arc faults **Over-voltages Over-voltages Short circuits Short circuits Overloads** Overloads

Different levels of protection

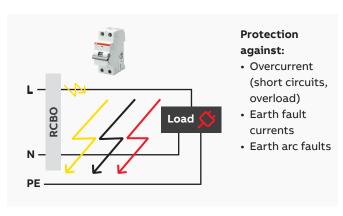
Protection offered by MCB's and RCD's



02 RCCB



03 RCBO



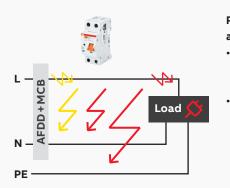
Different levels of protection

Complete protection offered by AFDD

01 Areas of application for AFDD Wooden houses, museums, galleries and architectural monuments

02 Areas of application for AFDD Workshops for wood processing and carpentry

01 S-ARC1 AFDD with integrated MCB

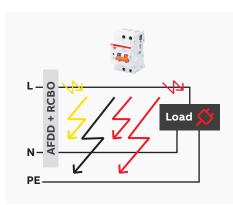


Protection against:

- Overcurrent (short circuits, overload)
- Series, parallel and earth arc faults

02 DS-ARC1 AFDD with integrated RCBO





Protection against:

- Overcurrent (short circuits, overload)
- Earth fault currents
- Series, parallel and earth arc faults

01



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Best solution: S-ARC1 and DS-ARC1

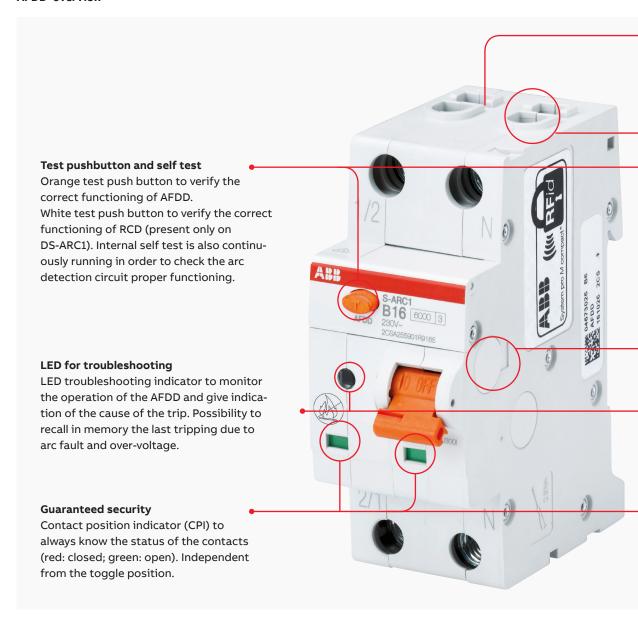
Product overview

ABB's AFDDs S-ARC1 and DS-ARC1 protect people and irreplaceable goods from fire hazards by early detecting arc faults in the electrical installation and disconnecting the affected circuit. They are available as AFDD with integrated MCB (S-ARC1) and AFDD with integrated RCBO (DS-ARC1).

S-ARC1 is the 1P+N arc fault detection device with integrated miniature circuit breaker (MCB) in 6 kA

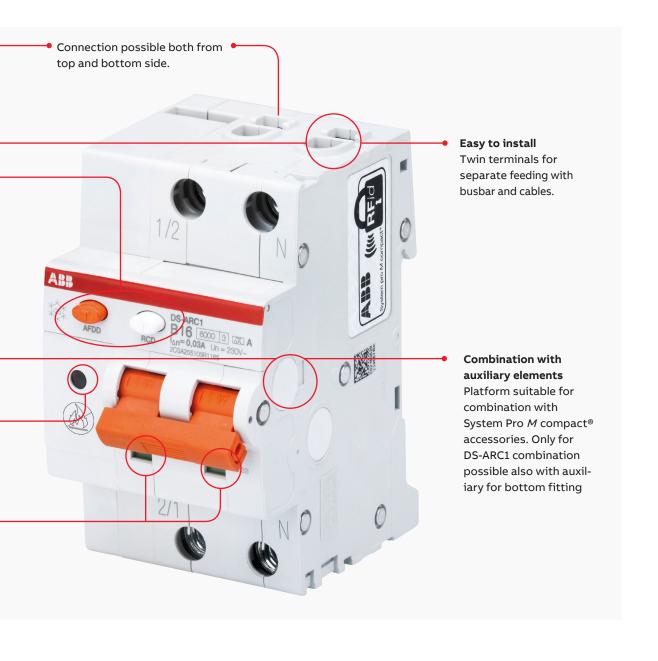
and 10 kA breaking capacity respectively: in only two-module width, these devices provide protection against over-currents and arc faults. Combined with a Residual Current Circuit Breaker (RCCB) as upstream device, the S-ARC1 series provides the best solution for complete protection in the switchboard, for people, buildings, and irreplaceable goods.

AFDD overview



DS-ARC1 is the new 1P+N AFDD with an integrated residual current circuit breaker with over-current protection (RCBO) in 6 kA and 10 kA breaking capacity. In only three-module width, DS-ARC1 series offers a complete protection against arc faults and overvoltage, reducing the risk of fire.

The integrated RCBO is adding protection against overcurrent as function of the integrated MCB also available in S-ARC1 and earth fault current: compact solution for a complete protection of people and valuable assets.



Reliable technology

Safe operation and accurate analysis

01 The LED func-

02 LED colors: off, green, red

03 Contact position indicator (CPI) in detail

S-ARC1 and DS-ARC1 are equipped with LED function monitoring, which shows the current status of the device and identifies the cause of the tripping. Maintenance time can therefore be reduced thanks to an easier troubleshooting of the network. During standard operating mode (toggle in ON position), the LED is green. When the toggle is on OFF position, the LED is OFF.

Easy fault analysis

In the case of a fault, the LED displays the different fault indications as soon as the toggle has been reclosed.

LED color	blinks/sec.	Signal duration	Cause of the tripping
green	perma- nent	perma- nent	manual tripping, test button, overcurrent
red blinking	1	5 secs	series arc faults
red blinking	2	5 secs	parallel arc faults
red blinking	3	5 secs	overvoltage

After the 5 second blinking the LED turns green again.

Internal self test

S-ARC1 and DS-ARC1 are also continuously self testing thanks to an internal electronic unit.

If the internal self test fails, the LED can switch off or start blinking green/red alternatively. This is done without any trip, in order to guarantee continuity of service and to avoid unwanted tripping. In this case it is required to press the orange test button:

- If the device trips, it has recovered to normal behavior and it can be reclosed
- If the device does not trip a replacement is required: call an electrotechnical expert

Guaranteed security

The contact position indicator (CPI) indicates the real position of the contacts independent from the toggle position.

- Green: contacts open –
- Red: contacts closed







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04 The earth fault indicator

05 Recall of last LED indication

Earth fault indicator

DS-ARC1 is equipped with an earth fault indicator to identify earth fault trips. A blue flag on the toggle will appear making the troubleshooting easier while reducing the downtime for maintenance operations. In case of earth fault trip, after reclosing the toggle, the LED becomes green.



Earth fault indicator
Blue flag on the
toggle to identify
earth fault tripping

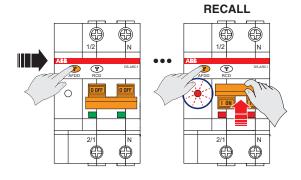
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Recall and clearing function: new feature introduced

S-ARC1 and DS-ARC1 allow to recall the last LED indication due to arc fault tripping or overvoltage. The memory is kept even in case the power supply is interrupted. This is particularly useful in all cases when an electrician comes to the installation site in certain period after a trip due arc fault or overvoltage has occurred.

For this it is necessary to keep the AFDD test push button pressed (orange one) during the reclosing of the toggle. The LED will give the indication of the last trip due to arc fault or overvoltage (After this it turns green).

If needed the memory of the last LED indication due to arc fault tripping or overvoltage can be cleared. For this it is necessary to keep the AFDD test pushbutton (the orange one) pressed during the reclosing of the toggle for 5 second. The LED will give the indication of the last tripping due to arc fault or overvoltage and then it turns orange for 1 second, meaning that the clearing of the memory has been done successfully. After this the LED turns green.



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Easy Installation

Quick and easy wirings without any additional cables

Easy installation and comprehensive protection against series and parallel arc faults – the S-ARC1 and DS-ARC1 combine everything that is needed for extended fire protection in all types of buildings.

01 Wiring of S-ARC with 2-pole RCCB

02 Wiring of DS-ARC1 with busbar

03 Wiring of DS-ARC1 with auxiliary for bottom fitting S-ARC1 and DS-ARC1 are suitable for installation both with cables and busbars and supply is possible either from top or bottom terminals according to the different countries installation habits. An easy and quick installation is possible with System pro M compact® busbars. The product is also compatible with System pro M compact® accessories that can be mounted directly on the product in few steps.

Wiring examples of S-ARC1 and DS-ARC1: direct installation on the busbar in only one step without using any extra cables for the connection.

Wiring with 2 poles RCCB, for one phase applications (Fig. 01):

- Installation with a 12 modules busbars, e.g. type PS2/12A, for individual final circuits protection.
- A 2-pole F202 RCCB has to be installed upstream the S-ARC1 in order to provide residual current protection.
- In total 3 F202 and 3 S-ARC1 can be installed protecting 3 different final circuits.

Wiring of DS-ARC1 with busbar (Fig. 02):

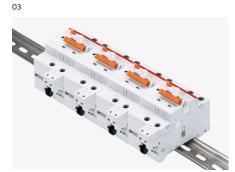
- Installation with a 12 modules busbars, e.g. type PS 2/8/16 AFDD, for individual final circuits protection.
- Since DS-ARC1 has an integrated RCBO, an RCCB upstream is not required anymore. 4 DS-ARC1 can be installed in a row, protecting 4 different final circuits.
- Dedicated busbars for combination with DS-ARC1 have been introduced (ordering details at page 19).

Wiring of DS-ARC1 with auxiliary for bottom fitting (Fig. 03)

 DS-ARC1 can be combined with auxiliary for bottom fitting, making the device particular suitable also for retrofitting and space constraint applications.







Reliable protection against arc faults in a proven design

Unbeatable arguments for S-ARC1 and DS-ARC1

S-ARC1 and DS-ARC1 share the same profile as the other System pro *M* compact® devices for a complete aesthetical integration inside the distribution board.

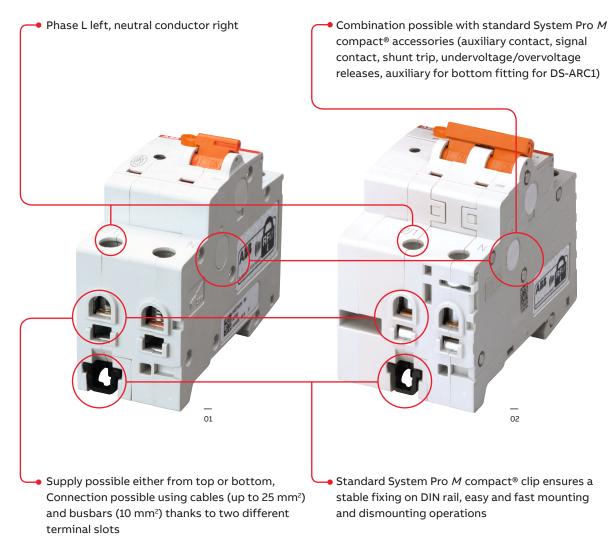
01 Connection options of the S-ARC1

02 Connection options of the DS-ARC1

Your advantages:

- 100 % flexible power supply from either top or bottom
- Up to 50 % time savings thanks to easy wiring with already existing busbars
- 100 % compatible with System Pro M compact® accessories
- Easy wiring thanks to terminals with double slots: 10 mm² (busbars) and 25 mm² (cables)
- Complete integration in the distribution board with other System Pro M compact® devices
- Easy removal from a battery of devices when supplied with busbars

Fits perfectly in the System pro M compact®



Technical data

S-ARC1 arc fault detection device with integrated MCB

Technical specifications

				S-ARC1	S-ARC1 M	
	Standards			IEC/EN 62606;	IEC/EN 60898-1	
Electrical	Number of poles			1P	+ N	
Functions	Rated current I _n		А	6 ≤ Iı	n ≤ 40	
	Rated voltage U		V	230	- 240	
	Insulation voltage U,		V	500 V AC		
	Overvoltage category			III		
	Pollution degree			2		
	Min. operating voltage		V	170		
	Threshold for protection against overvoltage		V	275		
	Rated frequency		Hz	50/60		
	Rated breaking capacity acc. to IEC/EN 60898-1	ultimate I	А	6000	10000	
	Rated breaking capacity acc. to IEC/EN 60947-2	ultimate I	kA	7.5	10	
	(only referring to short circuit test)	service I	kA	6	7.5	
	Rated residual breaking capacity I∆m		Α	60	000	
	Rated impulse withstand voltage (1.2/50) U _{imp}		kV		4	
	Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 (50/60) Hz, 1 min.)	
		B: $3 I_{n} \le I_{m} \le 5 I_{n}$				
	Thermomagnetic release – characteristic	C: $5 I_n \le I_m \le 10 I_n$		•		
	Energy limiting class				3	
Mechanical	Housing			Insulation gro	oup I, RAL 7035	
Main features	Toggle				, Orange RAL 2004, -OFF-positions	
(Contact position indication				ed window	
	Electrical life			10000 o	perations	
	Mechanical life				perations	
		housing		IP	4X	
	Protection degree acc. to EN 60529	terminals		IP	2X	
	Shock resistance acc. to IEC/EN 60068-2-27			25 g – 2 sho	ocks – 13 ms	
	Vibration resistance acc. to IEC/EN 60068-2-6			0.2 mm or 5 g – 20 cy	cles at 51505 Hz	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/ RH	28 cycles with 55°C/90 –	96% and 25°C/95 – 100%	
	Reference temperature for setting of thermal element		°C	3	30	
	Ambient temperature (with daily average ≤ +35 °C)		°C	-25.	+55	
	Storage temperature		°C	-40.	+70	
Assembly	Terminal type	top/bottom		failsafe bi-directional cylinder	-lift terminal (shock-protected	
	Terminal size for cables	top/bottom	mm²	25	/25	
	Terminal size for busbars	top/bottom	mm²	10	/10	
	Tightening torque	top/bottom	Nm	2	2.8	
	Stripping length of the cable		mm	1	12	
	Mounting			on DIN rail EN 60715 (35 mn	n) by means of mounting clip	
	Mounting position			a	ny	
	Supply from				m terminals	
Dimensions	Dimensions (H x D x W)		mm	-	59 × 35	
and weight	Weight		g		80	

TECHNICAL DATA

Technical data

DS-ARC1 arc fault detection device with integrated RCBO

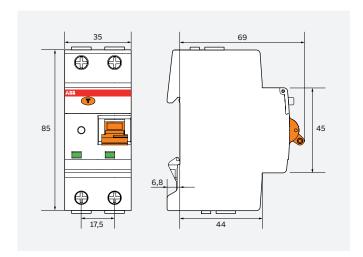
Technical specifications

				DS-ARC1	DS-ARC1 M	
	Standards			IEC/EN 62606; IEC/EN 6	1009-1; IEC/EN 61009-2-1	
Electrical	Type (wave form of the earth leakage sensed)				A	
Functions	Number of poles			16) + N	
	Rated current I		Α	6 ≤ I	n ≤ 20	
	 Rated sensitivity I∆n		Α	0.03		
	Rated voltage U		V	230	- 240	
	Insulation voltage U		V	500) V AC	
	Overvoltage category				III	
	Pollution degree				2	
	Operating voltage of RCD circuit test U.		V	170 – 264		
	Threshold for protection against overvoltage		V	275		
	Rated frequency		Hz)/60	
	Rated breaking capacity acc. to IEC/EN 61009-1	ultimate I	Α	6000	10000	
	Rated breaking capacity acc. to IEC/EN 60947-2	ultimate I	kA	7.5	10	
	(only referring to short circuit test)	service I	kA	6	7.5	
	Rated residual breaking capacity I∆m	cs cs	A		000	
	Rated impulse withstand voltage (1.2/50) U _{imp}		kV		4	
	Dielectric test voltage at ind. freq. for 1 min.		kV	2 5 (50/6)) Hz, 1 min.)	
	Diction test voltage at ma. Heq. for 1 mm.	B: $3 I_{n} \le I_{m} \le 5 I_{n}$	100	2.3 (30) 0.	1	
	Thermomagnetic release – characteristic	C: $5 I_n \le I_m \le 10 I_n$				
	Energy limiting class				3	
	Surge current resistance (wave 8/20)				NA .	
Mechanical	Housing				oup I, RAL 7035	
Main features					on group II,	
	Toggle			Orange RAL 2004, seal	able in ON-OFF-positions	
	Contact position indication			Green/red window		
	Earth fault trip indication			Blue flag on toggle		
	Electrical life			10000 c	perations	
	Mechanical life			20000 0	perations	
	Protection degree acc. to EN 60529	housing		II	P4X	
		terminals		II	P2X	
	Shock resistance acc. to IEC/EN 60068-2-27			25 g – 2 sh	ocks – 13 ms	
	Vibration resistance acc. to IEC/EN 60068-2-6			0.2 mm or 5 g – 20 c	ycles at 51505 Hz	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/ RH	28 cycles with 55°C/90 –	96% and 25°C/95 – 100%	
	Reference temperature for setting of thermal element	i	°C		30	
	Ambient temperature (with daily average \leq +35 °C)		°C	-25	+55	
	Storage temperature		°C	-40	+70	
Assembly	Terminal type	top/bottom		failsafe bi-directional cylinder	-lift terminal (shock-protected	
	Terminal size for cables	top/bottom	mm²	25	5/25	
	Terminal size for busbars	top/bottom	mm²	10)/10	
	Tightening torque	top/bottom	Nm	7	2.8	
	Stripping length of the cable		mm		12	
	Mounting			on DIN rail EN 60715 (35 m	m) by means of mounting clip	
	Mounting position			6	any	
	Supply from			Top/botto	om terminals	
Dimensions	Dimensions (H x D x W)		mm	85 × 6	9 × 52.5	
and weight	Weight		g		240	

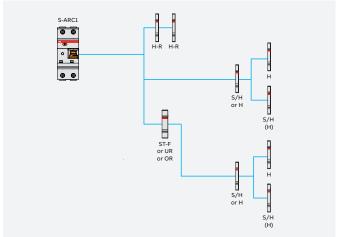
Dimensional drawings and combinations

— S-ARC 1

Overall dimensions in mm

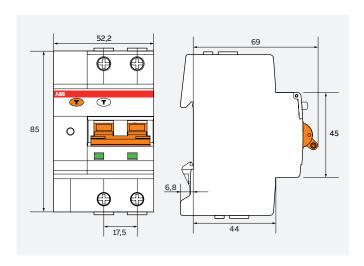


System pro *M* compact® accessories – Combinations with accessories

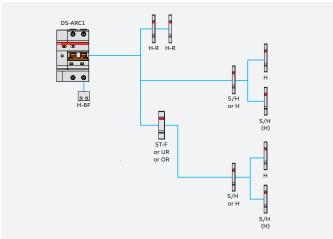


DS-ARC 1

Overall dimensions in mm



System pro *M* compact® accessories – Combinations with accessories



		S-ARC 1	DS-ARC 1
Н	Auxiliary contact	S2C-H6R	S2C-H6R
H-R	Auxiliary contact	S2C-H6-xxR	S2C-H6-xxR
S/H	Signal/auxiliary contact	S2C-S/H6R	S2C-S/H6R
S/H (H)	Signal/auxiliary contact used as auxiliary contact	S2C-S/H6R	S2C-S/H6R
ST-F	Shunt Trip	F2C-A	F2C-A
UR	Undervoltage release	S2C-UA	S2C-UA
OR	Overvoltage release	S2C-OVP	S2C-OVP
H-BF	Auxiliary contact for bottom fitting		S2C-H01/S2C-H10

S-ARC1 and S-ARC1 M ordering details

— S-ARC1, 6 kA



Number of poles	Charac- teristics	Rated current I _n A	Bbn 8012542 EAN	Ordering details Type code	Order code	Weight 1 pcs; kg	Pkg qty pce
		6	750130	S-ARC1 B6	2CSA255901R9065	0.180	1
		10	178132	S-ARC1 B10	2CSA255901R9105	0.180	1
	-	13	750031	S-ARC1 B13	2CSA255901R9135	0.180	1
1P+N	В -	16	178033	S-ARC1 B16	2CSA255901R9165	0.180	1
		20	749936	S-ARC1 B20	2CSA255901R9205	0.180	1
	-	25	341116	S-ARC1 B25	2CSA255901R9255	0.180	1
	-	32	341017	S-ARC1 B32	2CSA255901R9325	0.180	1
		40	340812	S-ARC1 B40	2CSA255901R9405	0.180	1
	_	6	177937	S-ARC1 C6	2CSA255901R9064	0.180	1
	-	10	749837	S-ARC1 C10	2CSA255901R9104	0.180	1
	_	13	500735	S-ARC1 C13	2CSA255901R9134	0.180	1
1P+N	С -	16	886136	S-ARC1 C16	2CSA255901R9164	0.180	1
		20	175438	S-ARC1 C20	2CSA255901R9204	0.180	1
	_	25	374114	S-ARC1 C25	2CSA255901R9254	0.180	1
		32	374015	S-ARC1 C32	2CSA255901R9324	0.180	1
		40	373919	S-ARC1 C40	2CSA255901R9404	0.180	1

S-ARC1 M, 10 kA



Number of poles	Charac- teristics	Rated cur- rent I _n A	Bbn 8012542 EAN	Ordering details Type code	Order code	Weight 1 pcs; kg	Pkg qty pce
		6	374312	S-ARC1 M B6	2CSA275901R9065	0.180	1
		10	342113	S-ARC1 M B10	2CSA275901R9105	0.180	1
		13	342014	S-ARC1 M B13	2CSA275901R9135	0.180	1
1P+N	В -	16	342212	S-ARC1 M B16	2CSA275901R9165	0.180	1
1F · IN		20	341215	S-ARC1 M B20	2CSA275901R9205	0.180	1
		25	341413	S-ARC1 M B25	2CSA275901R9255	0.180	1
		32	341314	S-ARC1 M B32	2CSA275901R9325	0.180	1
		40	339915	S-ARC1 M B40	2CSA275901R9405	0.180	1
		6	339816	S-ARC1 M C6	2CSA275901R9064	0.180	1
		10	339717	S-ARC1 M C10	2CSA275901R9104	0.180	1
		13	339618	S-ARC1 M C13	2CSA275901R9134	0.180	1
45.11		16	340416	S-ARC1 M C16	2CSA275901R9164	0.180	1
1P+N	C -	20	340317	S-ARC1 M C20	2CSA275901R9204	0.180	1
		25	340218	S-ARC1 M C25	2CSA275901R9254	0.180	1
		32	340119	S-ARC1 M C32	2CSA275901R9324	0.180	1
		40	340010	S-ARC1 M C40	2CSA275901R9404	0.180	1

DS-ARC1 and DS-ARC1 M ordering details

DS-ARC1, 6 kA



Number of poles	Rated residual	Charac- teristics	Rated current	Bbn 8012542	Ordering details		Weight 1 pcs	Pkg qty
	currrent I∆m mA		I _n A	EAN	Type code	Order code	kg	pce
			6	736516	DS-ARC1 B6 A30	2CSA255103R1065	0.240	1
			10	735618	DS-ARC1 B10 A30	2CSA255103R1105	0.240	1
1P+N	30	В	13	736417	DS-ARC1 B13 A30	2CSA255103R1135	0.240	1
			16	735519	DS-ARC1 B16 A30	2CSA255103R1165	0.240	1
			20	736318	DS-ARC1 B20 A30	2CSA255103R1205	0.240	1
			6	736110	DS-ARC1 C6 A30	2CSA255103R1064	0.240	1
			10	735212	DS-ARC1 C10 A30	2CSA255103R1104	0.240	1
1P+N	30	С	13	748311	DS-ARC1 C13 A30	2CSA255103R1134	0.240	1
		_	16	611110	DS-ARC1 C16 A30	2CSA255103R1164	0.240	1
		_	20	735113	DS-ARC1 C20 A30	2CSA255103R1204	0.240	1

DS-ARC1 M, 10 kA



Number of poles	Rated residual currrent	Charac- teristics	Rated current I _n A	Bbn 8012542 EAN	Ordering details Type code	Order code	Weight 1 pcs kg	Pkg qty pce
			6	734710	DS-ARC1 M B6 A30	2CSA275103R1065	0.240	1
		_	10	733812	DS-ARC1 M B10 A30	2CSA275103R1105	0.240	1
1P+N	30	В	13	734611	DS-ARC1 M B13 A30	2CSA275103R1135	0.240	1
			16	733713	DS-ARC1 M B16 A30	2CSA275103R1165	0.240	1
			20	734512	DS-ARC1 M B20 A30	2CSA275103R1205	0.240	1
			6	734314	DS-ARC1 M C6 A30	2CSA275103R1064	0.240	1
			10	733416	DS-ARC1 M C10 A30	2CSA275103R1104	0.240	1
1P+N	30	С	13	748113	DS-ARC1 M C13 A30	2CSA275103R1134	0.240	1
		_	16	611011	DS-ARC1 M C16 A30	2CSA275103R1164	0.240	1
			20	748014	DS-ARC1 M C20 A30	2CSA275103R1204	0.240	1

 $\label{lem:decomposition} \textbf{Dedicated codes of auxiliary for bottom fitting suitable for the combination with DS-ARC1}$

Description	Type code	Order code	Pkg qty pce
1 NC	S 2C-H01	2CDS200970R0031	1
1 NO	S 2C-H10	2CDS200970R0032	1
1 NC	S 2C-H01 15x	2CDS200970R0041	15
1 NO	S 2C-H10 15x	2CDS200970R0042	15

BUSBAR ORDER CODES

Busbar ordering details

Busbars for S-ARC1 installation

No. of pins	Phases		Cu-No	Bbn 40 16779	Ordering details	Ordering details	Weight 1 pcs	Pkg qty pce
		mm²	kg	EAN	Type code	Order code	kg	
2-phase busb	ars, connectio	n of 2-pole	devices, end ca	aps PS-END				
12	2	10	0,070	556521	PS2/12 1)	2CDL220001R1012	0,075	50
2-phase busb	ars, connectio	n of 2-pole	devices with a	uxiliary, end caps PS	-END			
48	2	10	0,470	556538	PS2/48H	2CDL220001R1048	0,354	10,000
48	2	16	0,680	556545	PS2/48/16H	2CDL220001R1648	0,580	10,000
4-phase busb	ars, connectio	n of 4-pole I	F204 with 1+N	S-ARC1, end caps P	S-END 1, Bottom side instal	lation		
12	4	10	0,105	060301	PS4/12NN 1)	2CDL240102R1012	0,110	30
12	4	16	0,149	060332	PS4/12/16NN 1)	2CDL240102R1612	0,145	30
58	4	10	0,803	656177	PS4/58NNA	2CDL240110R1058	0,568	10
58	4	16	1,205	656184	PS4/58/16NNA	2CDL240110R1658	0,774	10
4-phase busb	ars, connectio	n of 4-pole I	F204 with 1+N	S-ARC1, end caps P	S-END 1, Top side installation	on		
12	4	10	0,105	060356	PS4/12NNT 1)	2CDL240103R1012	0,110	30
12	4	16	0,149	060370	PS4/12/16NNT 1)	2CDL240103R1612	0,145	30

Busbars for DS-ARC1 installation

No. of pins	pins Phases		Cu-No	Bbn 40 16779	Ordering details	Ordering details	Weight 1 pcs	Pkg qty pce
		mm²	kg	EAN	Type code	Order code	kg	poo
2-phase busb	ar, end caps P	S-END; both	top and botto	om side mounting				
8	2	16	0,105	063104	PS 2/8/16 AFDD	2CDL220102R1608	0.095	50
40	2	16	0,495	063111	PS 2/40/16 AFDD	2CDL220102R1640	0.51	10
4-phase busb	ar, end caps P	S-END 1; firs	t one: top sid	e mounting; secon	nd one: bottom side mounting			
36	4	16	0,985	063128	PS 4/36/16 AFDD T	2CDL240103R1636	0.67	10
36	4	16	0,985	063135	PS 4/36/16 AFDD	2CDL240102R1636	0.67	10
4-phase busb	ar, connection	with auxilia	ry, end caps P	S-END 1; first one	: top side mounting; second o	ne: bottom side mounting		
30	4	16	0,915	063142	PS 4/30/16 H AFDD T	2CDL240103R1630	0.62	10
30	4	16	0.915	063159	PS 4/30/16 H AFDD	2CDL240102R1630	0.62	10

End caps PS-END and PS-END 1 for S-ARC1 and DS-ARC1 busbars

Type code	Order code	Bbn 40 16779 EAN	Weight 1 pcs kg	Pkg qty pce	
PS-END	2CDL200001R0001	514729	0,001	50	
PS-END 1	2CDL200001R0002	570114	0,001	50	



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