



TYPE APPROVAL CERTIFICATE
No. ELE142224XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Contactors-Motor Starters and Auxiliary Contactors
<i>Type</i>	Contactors: AF09...AF96, AFS09...AFS96, AF09Z...AF38Z
	Auxiliary contactor NF and accessories
<i>Applicant</i>	ABB FRANCE - ABB France
	11 Rue d'Arsonval
	69680 Chassieu
	FRANCE
<i>Manufacturer</i>	ABB FRANCE - ABB France
<i>Place of manufacture</i>	11 Rue d'Arsonval
	69680 Chassieu
	FRANCE
<i>Reference standards</i>	IEC 60947-4-1:2018 and IEC 60947-5-1:2016

Issued in **HAMBURG** on **July 23, 2024**. *This Certificate is valid until* **July 22, 2029**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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Contactors: AF09...AF96, AFS09...AFS96, AF09Z...AF38Z

Auxiliary contactor NF and accessories

Product description:

The **AF09(K)...AF96** series are AC/DC operated contactors. These contactors are available as:

- 3-pole contactors - with screw, spring or push-in (K) terminals or
- 4-pole contactors - with screw terminals.

The **AF09Z...AF38Z** series are 3-pole contactors with low consumption coil with 24..250V AC or 12..250V DC.

Main characteristics of AF 09(K)...AF96 contactors:

Maximum Rated voltage Ue: 690V AC
Rated frequency: 50/60Hz
Degree of protection: IP 20
Rated control circuit voltage: 20...500V DC or 24...500V AC

Technical data of 3-pole contactors:

Contactor type:	AF09(K)	AF12(K)	AF16(K)	AF26(K)	AF30(K)	AF38(K)
Main contacts:						
Rated op. current Ie (AC1, 40°C) for screw or push-in terminal:	25A	28A	30A	45A	50A	50A
for spring terminal:	22A	24A	24A	35A	-	-
Rated operational load	4kW	5,5kW	7,5kW	11kW	15kW	18,5kW
utilization category AC3 (400V)	9A	12A	18A	26A	32A	38A
utilization category AC3 (690V)	7A	9A	10,5A	17A	21A	24A

Contactor type:	AF40	AF52	AF65	AF80	AF96
Main contacts:					
Rated op. current Ie (AC1, 40°C) for screw terminal:	70A	100A	105A	125A	130A
Rated operational load	18,5kW	22kW	30kW	37kW	45kW
utilization category AC3 (400V)	40A	53A	65A	80A	96A
utilization category AC3 (690V)	25A	35A	39A	49A	57A

Application: AF09(K) ... AF96 contactors are used for controlling power circuits up to 690V AC and 220V DC. They are mainly used for controlling 3-phase motors.

Accessories: as listed in technical data sheet.

Technical data of 4-pole contactors:

Contactor type:	AF09	AF16	AF26	AF38	AF40	AF52	AF80
Main contacts:							
Rated op. current Ie (AC1, 40°C)	25A	30A	45A	55A	70A	100A	125A
Rated operational load							
utilization category AC3 (400V)	9A	18A	22A	22A	40A	53A	80A
utilization category AC3 (690V)	7A	10,5A	10,5A	10,5A	25A	35A	49A

Application: AF09...AF80 4-pole contactors are used for controlling power circuits for 690V AC and 440V DC. They are mainly used for controlling non-inductive loads, or slightly inductive loads.

Accessories: as listed in technical data sheet.



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The **AFS09...AFS96** series are 3-pole contactors with screw terminals and with front-mounted auxiliary with 2 N.O. + 2 N.C. contacts for safety applications.

Main characteristics of AFS 09...AFS96 contactors:

Maximum Rated voltage Ue: 690V AC
 Rated frequency: 50/60Hz
 Degree of protection: IP 20
 Rated control circuit voltage: 20...500V DC or 24...500V AC

Technical data of main contacts :

Contactor type:	AFS09	AFS12	AFS16	AFS26	AFS30	AFS38
Main contacts:						
Rated op. current Ie (AC1, 40°C):	25A	28A	30A	45A	50A	50A
Rated operational load	4kW	5,5kW	7,5kW	11kW	15kW	18,5kW
utilization category AC3 (400V)	9A	12A	18A	26A	32A	38A
utilization category AC3 (690V)	7A	9A	10,5A	17A	21A	24A

Contactor type:	AFS40	AFS52	AFS65	AFS80	AFS96
Main contacts:					
Rated op. current Ie (AC1, 40°C):	70A	100A	105A	125A	130A
Rated operational load	18,5kW	22kW	30kW	37kW	45kW
utilization category AC3 (400V)	40A	53A	65A	80A	96A
utilization category AC3 (690V)	25A	35A	39A	49A	57A

Technical data auxiliary contacts :

Rated insulation voltage	Ui	690V
Rated operational current	Ie/AC-15	24-127V: 6A; 220-240V: 4A; 400-440V: 3A; 500V: 2A; 690V: 2A
Rated operational current	Ie/DC-13	24V: 6A; 48V: 2.8A; 72V: 1A; 125V: 0.55A; 250V: 0.27A; 400V: 0.15A; 500V: 0.13A; 600V: 0.1A

Accessories: as listed in technical data sheet.

The **NF...(K)** series are 4- or 8-poles auxiliary contactors with screw, spring and push-in (K) terminals for switching auxiliary and control circuits.

Technical data :

Specification/Type		NF...(K)
Rated operational voltage	Ue max.	690V AC
Rated insulation voltage	Ui	690V
Rated frequency:		50/60Hz
Conventional free-air thermal current	Ith (40°C)	16 A
Rated operational current	Ie/AC-15	24-127V: 6A; 220-240V: 4A; 400-440V: 3A; 500V: 2A; 690V: 2A
Rated operational current	Ie/DC-13	24V: 6A; 48V: 2.8A; 72V: 1A; 125V: 0.55A; 250V: 0.27A; 400V: 0.15A; 500V: 0.13A; 600V: 0.1A
Short circuit protection gG type fuse:		10A
Degree of protection:		IP 20
Rated Impulse Withstand voltage:	Uimp	6kV
Connection:	/	Screw, spring or push-in terminals

Accessories: as listed in technical data sheet.



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The **CA4-...(K)**, **CAT4-...(K)**, **CAL4-...(K)** series are auxiliary contact blocks for the operation of auxiliary circuits and control circuits on contactors of AF series. These auxiliary contact blocks are available with screw, spring or push-in (K) terminals.

CA4-...(K): 1, 2 or 4-pole block, front-mounted, instantaneous with N.O, N.C contacts

CAT4-...(K): 2-pole block, front-mounted, instantaneous N.O + N.C contacts with coil connection terminal on front face

CAL4-...(K): 2-pole block instantaneous N.O + N.C contacts clipped onto right and/or left side of the contactors

Technical data:

Specification/Type		CA...(K)
Rated operational voltage	Ue max.	24...690V
Rated insulation voltage	Ui	690V
Rated frequency limits	/	25...400Hz
Rated operational current	Ie/AC-15	24-127V: 6A; 220-240V: 4A; 400-440V: 3A; 500V: 2A; 690V: 2A
Rated operational current	Ie/DC-13	24V: 6A; 48V: 2.8A; 72V: 1A; 125V: 0.55A; 250V: 0.27A; 400V: 0.15A; 500V: 0.13A; 600V: 0.1A
Degree of protection:		IP 20
Rated Impulse Withstand voltage:	Uimp	6kV
Connection:	/	Screw, spring or push-in terminals

Documents:

Main Catalogue: - 1SBC100214C0202 dated 02.2024

Operating Instruction: - 1SBC101047M6801; 1SBC101052M6801; 1SBC101054M6801;

Test reports:

Intertek Semko AB: - 2308428STO-001; 2302475STO-001; 2307872STO-001; 2209865STO-001; 2302476STO-001;

2302477STO-001; 21324121-797951; 2310452STO-001

CB Test Certificates Intertek Semko AB: - SE-93052A1; SE-112440; SE-113142A1; SE-113324; SE-113345; SE-96553M1; SE-113371; FR-719194; SE-113783; SE-113886

ABB: - 20120546-A; 20120547-A

Remarks:

- The products fulfill EC-Code: 3a1/41.

- The coil of AF09Z...AF38Z contactor series are to be supplied via a type approved power supply.

- This certificate replaces the certificate no.: ELE240318XG.

HAMBURG July 23, 2024

Giuseppe Russo