

Auxiliary contact blocks for AF09(Z)B ... AF370B contactors

Connection with standard ferrules



CA4-10-T

1SBCL00001V0014



CA4-22E

1SBCL00006V0014



CAL4-11-T

1SBCL00007V0014



CAT4-11E

1SBCL00002V0014

The auxiliary contact blocks are used for the operation of auxiliary circuits and control circuits for standard industrial environments.



Types of auxiliary contact blocks for front mounting:

- Screw terminals
- Select the 4-pole auxiliary contact blocks CA4-..E, CA4-..M, CA4-..U or CA4-..N type, according to the contactor or contactor relay type for compliance with the standard requirements (see "Terminal marking and positioning").

Types of auxiliary contact blocks for side mounting:

- Screw terminals
- For clipping onto the right- and/or left-hand side of the contactors.
- The CAL ...-11B is a second block for mounting in addition to a first CAL ...-11 block, right- and/or left-hand of the AF116B ... AF370B contactors.

The auxiliary contact blocks are equipped with screw type connecting terminals delivered open, protected against accidental direct contact and bear the corresponding function marking.

For contactors	Auxiliary contacts	Type	Order code	Pkg qty	Weight (1 pce)
	 				kg

Front-mounted instantaneous auxiliary contact blocks

AF09(Z)B ... AF38(Z)B	1 0 - -	CA4-10-T	1SBN010110T1010	10	0.014
4-pole NF(Z)B	0 1 - -	CA4-01-T	1SBN010110T1001	10	0.014
AF45 ... AF95B	1 0 - -	CA5-10	1SBN010010R1010	10	0.014
	0 1 - -	CA5-01	1SBN010010R1001	10	0.014
AF09(Z)B ... AF16(Z)B-30-10	2 2 - -	CA4-22M	1SBN010140R1122	1	0.055
	3 1 - -	CA4-31M	1SBN010140R1131	1	0.055
	1 3 - -	CA4-13M	1SBN010140R1113	1	0.055
	0 4 - -	CA4-04M	1SBN010140R1104	1	0.055
AF26(Z)B ... AF38(Z)B-30-00	2 2 - -	CA4-22E	1SBN010140R1022	1	0.055
AF09(Z)B ... AF38(Z)B-40-00	3 1 - -	CA4-31E	1SBN010140R1031	1	0.055
AF09(Z)B ... AF38(Z)B-22-00	4 0 - -	CA4-40E	1SBN010140R1040	1	0.055
AF26(Z)B ... AF38(Z)B-30-00	0 4 - -	CA4-04E	1SBN010140R1004	1	0.055
AF09(Z)B ... AF16(Z)B-40-00					
AF09(Z)B ... AF16(Z)B-30-01	2 2 - -	CA4-22U	1SBN010140R1322	1	0.055
	3 1 - -	CA4-31U	1SBN010140R1331	1	0.055
	4 0 - -	CA4-40U	1SBN010140R1340	1	0.055
4-pole NF(Z)B	4 0 - -	CA4-40N	1SBN010140R1240	1	0.055
	3 1 - -	CA4-31N	1SBN010140R1231	1	0.055
	2 2 - -	CA4-22N	1SBN010140R1222	1	0.055
	1 3 - -	CA4-13N	1SBN010140R1213	1	0.055
NF(Z)B40E	0 4 - -	CA4-04N	1SBN010140R1204	1	0.055
AF45 ... AF95B	2 2 - -	CA5-22E	1SBN010040R1022	2	0.06
	3 1 - -	CA5-31E	1SBN010040R1031	2	0.06

Side-mounted instantaneous auxiliary contact blocks

AF09(Z)B ... AF38(Z)B	1 1 - -	CAL4-11-T	1SBN010120T1011	10	0.04
NF(Z)B					
AF45 ... AF75	1 1 - -	CAL5-11	1SBN010020R1011	2	0.05
AF95B	1 1 - -	CAL18-11	1SBN010720R1011	2	0.05
AF116B ... AF370B	1 1 - -	CAL19-11	1SBN010820R1011	2	0.04
	1 1 - -	CAL19-11B	1SBN010820R3311	2	0.04

Front-mounted instantaneous auxiliary contact and A1/A2 coil terminal blocks

AF09(Z)B ... AF16(Z)B-30-10	1 1 - -	CAT4-11M	1SBN010151R1111	1	0.04
AF09(Z)B ... AF38(Z)B-40-00	1 1 - -	CAT4-11E	1SBN010151R1011	1	0.04
AF09(Z)B ... AF38(Z)B-22-00					
AF26(Z)B ... AF38(Z)B-30-00					
AF09(Z)B ... AF16(Z)B-30-01	1 1 - -	CAT4-11U	1SBN010151R1311	1	0.04

(1) For each contactor or contactor relay type, refer to "Accessory fitting details" table.

CA4, CAT4, CAL4 auxiliary contact blocks for AF09(Z)B ... AF38(Z)B

Connection with standard ferrules





Contact utilization characteristics according to IEC

Types	1-pole CA4, 4-pole CA4, 2-pole CAT4, 2-pole CAL4	
Standards	IEC 60947-5-1 and EN 60947-5-1	
Rated insulation voltage U_i acc. to IEC 60947-5-1	690 V	
Rated impulse withstand voltage U_{imp}	6 kV	
Rated operational voltage U_e max.	24 ... 690 V	
Conventional thermal current I_{th} - $\theta \leq 40^\circ\text{C}$	16 A	
Rated frequency (without derating)	50 / 60 Hz	
I_e / Rated operational current AC-15 acc. to IEC 60947-5-1	24-127 V 50/60 Hz	6 A
	220-240 V 50/60 Hz	4 A
	400-440 V 50/60 Hz	3 A
	500 V 50/60 Hz	2 A
	690 V 50/60 Hz	2 A
Making capacity	10 x I_e AC-15 acc. to IEC 60947-5-1	
Breaking capacity	10 x I_e AC-15 acc. to IEC 60947-5-1	
I_e / Rated operational current DC-13 acc. to IEC 60947-5-1	24 V DC	6 A / 144 W
	48 V DC	2.8 A / 134 W
	72 V DC	1 A / 72 W
	110 V DC	0.55 A / 60 W
	125 V DC	0.55 A / 69 W
	220 V DC	0.27 A / 60 W
	250 V DC	0.27 A / 68 W
	400 V DC	0.15 A / 60 W
	500 V DC	0.13 A / 65 W
600 V DC	0.1 A / 60 W	
Short-circuit protection device gG type fuse	10 A	
Rated short-time withstand current I_{cw} $\theta \leq 40^\circ\text{C}$	for 1.0 s	100 A
	for 0.1 s	140 A
Minimum switching capacity with failure rate acc. to IEC 60947-5-4	12 V / 3 mA	
Power dissipation per pole at 6 A	10^{-7}	
Mechanical durability	10 millions operating cycles	
Max. switching frequency	3600 cycles/h	
Max. electrical switching frequency	AC-15	1200 cycles/h
	DC-13	900 cycles/h
Mechanically linked contacts acc. to annex L of IEC 60947-5-1	Additional N.O. or N.C. auxiliary contacts (CA4, CAL4, CAT4) are mechanically linked contacts.	
Mirror contacts acc. to annex F of IEC 60947-4-1	Additional N.C. auxiliary contacts (CA4, CAL4, CAT4) are mirror contacts.	

Contact utilization characteristics according to UL / CSA

Types	1-pole CA4, 4-pole CA4, 2-pole CAT4, 2-pole CAL4	
Standards	UL 508, CSA C22.2 N°14	
Max. operational voltage	600 V AC, 600 V DC	
Pilot duty	A600, Q600	
AC thermal rated current	10 A	
AC maximum volt-ampere making	7200 VA	
AC maximum volt-ampere breaking	720 VA	
DC thermal rated current	2.5 A	
DC maximum volt-ampere making-breaking	69 VA	

Connecting characteristics

Types	1-pole CA4, 4-pole CA4, 2-pole CAT4, 2-pole CAL4	
Connection capacity (min. ... max.)		
 Rigid solid	1 x	1...2.5 mm ²
	2 x	1...2.5 mm ²
 Flexible with non insulated ferrule	1 x	0.75...2.5 mm ²
	2 x	0.75...2.5 mm ²
 Flexible with insulated ferrule	1 x	0.75...2.5 mm ²
	2 x	0.75...1.5 mm ²
 Lugs	L <	8 mm
Connection capacity acc. to UL/CSA	1 or 2 x	AWG 18...14
Stripping length	10 mm	
Tightening torque	1.2 Nm / 11 lb.in	
Degree of protection acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529	IP20	
Screw terminals	Delivered in open position, screws of unused terminals must be tightened	
All terminals	M3,5	