

Auxiliary Contact Blocks

Accessories for AF09 ... AF30 3-pole Contactors



CA4-10



CA4-22M



CAL4-11



CAT4-11E

Application

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

Description

Types of auxiliary contact blocks for standard industrial environments:

- **CA4** 1 or 4-pole block, front-mounted, instantaneous with N.O., N.C. contacts
- **CC4** 1-pole block, front-mounted, with N.O. leading contact or N.C. lagging contact
- **CAT4** 2-pole block, front-mounted, instantaneous N.O. + N.C. contacts with A1 / A2 coil terminal connection on front face
- **CAL4** 2-pole block instantaneous N.O. + N.C. contacts clipped onto the right and/or left side of the contactors.

Select the type of 2 or 4-pole auxiliary contact blocks CAT4 or CA4-..E, CA 4-..M or CA 4-..U, according to the contactor type for compliance with the standard requirements (see terminal and marking positioning).

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

Fitting Details - For each contactor refer to "Accessory Fitting Details" table.

Ordering Details

For contactors	Auxiliary contacts	Catalog number	List price	Pack ^(log) pieces	Weight kg/lbs (1 pce)
	 				

Front-mounted instantaneous auxiliary contact blocks

AF09 ... AF30	1	0	-	-	CA4-10	1	0.014/0.03
	0	1	-	-	CA4-01	1	0.014/0.03
AF09 ... AF16..-30-10	2	2	-	-	CA4-22M	1	0.055/0.12
	3	1	-	-	CA4-31M	1	0.055/0.12
	1	3	-	-	CA4-13M	1	0.055/0.12
	0	4	-	-	CA4-04M	1	0.055/0.12
AF26 ... AF30..-30-00	2	2	-	-	CA4-22E	1	0.055/0.12
	3	1	-	-	CA4-31E	1	0.055/0.12
	4	0	-	-	CA4-40E	1	0.055/0.12
	0	4	-	-	CA4-04E	1	0.055/0.12
AF09 ... AF16..-30-01	2	2	-	-	CA4-22U	1	0.055/0.12
	3	1	-	-	CA4-31U	1	0.055/0.12
	4	0	-	-	CA4-40U	1	0.055/0.12

Front-mounted auxiliary contact blocks with N.O. leading contact and N.C. lagging contact

AF09 ... AF30	-	-	1	0	CC4-10	1	0.014/0.03
	-	-	0	1	CC4-01	1	0.014/0.03

Side-mounted instantaneous auxiliary contact blocks

AF09 ... AF30	1	1	-	-	CAL4-11	1	0.040/0.09
---------------	---	---	---	---	---------	---	------------

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

AF09 ... AF16..-30-10	1	1	-	-	CAT4-11M	1	0.040/0.09
AF26 ... AF30..-30-00	1	1	-	-	CAT4-11E	1	0.040/0.09
AF09 ... AF16..-30-01	1	1	-	-	CAT4-11U	1	0.040/0.09

Note: CAT4 not fittable on AF..Z contactors with DC control voltage 12...20 V DC.

Auxiliary Contact Blocks

Accessories for AF09 ... AF30 3-pole Contactors



Technical Data

Types	1-pole CA4, 1-pole CC4, 4-pole CA4, 2-pole CAT4, 2-pole CAL4
-------	--

Contact Utilization Characteristics according to IEC

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_o max.	24 ... 690 V
Conventional thermal current I_{th} - $\theta \leq 40^\circ\text{C}$	16 A
Rated frequency limits	25 ... 400 Hz
Rated operational current I_o / AC-15	24-127 V 50/60 Hz : 6 A
acc. to IEC 60947-5-1	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 acc. to IEC 60947-5-1	10 x I_o AC-15 acc. to IEC 60947-5-1
Breaking capacity acc. to IEC 60947-5-1	10 x I_o AC-15 acc. to IEC 60947-5-1
Rated operational current I_o / DC-13	24 V DC : 6 A / 144 W
acc. to IEC 60947-5-1	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 gG type fuse	10 A
Rated short-time withstand current I_{cw}	for 1.0 s : 100 A
$\theta = 40^\circ\text{C}$	for 0.1 s : 140 A
Minimum switching capacity	12 V / 3 mA
with failure rate acc. to IEC 60947-5-4	10^{-7}
Heat dissipation per pole at 6 A	0.1 W
Mechanical durability	Number of operating cycles : 10 millions operating cycles
	Max. switching frequency : 3600 cycles/h
Max. electrical switching frequency	for AC-15 : 1200 cycles/h
	for DC-13 : 900 cycles/h

Contact Utilization Characteristics according to UL / CSA

Standards	UL 508, CSA C22.2 N°14
Rated insulation voltage U_i	600 V
Max. rated 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

Screw terminals	(delivered in open position, screws of unused terminals must be tightened)
All terminals	M3.5
Connecting capacity (min. ... max.)	
Rigid solid	1 x : 1 ... 2.5 mm²
Flexible with non insulated ferrule	2 x : 1 ... 2.5 mm²
Flexible with insulated ferrule	1 x : 0.75 ... 2.5 mm²
Flexible with insulated ferrule	2 x : 0.75 ... 2.5 mm²
Flexible with insulated ferrule	1 x : 0.75 ... 2.5 mm²
Flexible with insulated ferrule	2 x : 0.75 ... 1.5 mm²
Bars or lugs	L < : 8 mm
Capacity acc. to UL/CSA	1 or 2 x : AWG 18 ... 14
Stripping length	10 mm
Degree of protection	IP20
acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529	
Screwdriver type	Flat Ø5.5 / Pozidriv 2
Tightening torque	1.2 Nm / 11 lb.in