

Accessories for A/AF/AL & AE contactors



CAL5-11



CA5-10

Auxiliary contact blocks – Standard

Positioning	Maximum number of contact blocks	Contact Description	Catalog number	List price
Front mounting (single pole)	4 blocks: A9 – A26 AE9 – AE26 AL9 – AL26	1 N.O. 1 N.C.	CA5-10 CA5-01	\$ 15
	5 blocks: A30, A40, AE30, AE40, AL30, AL40 6 blocks: A45 – A110 AE45 – AE110 AF45 – AF110	1 N.O. Early make 1 N.C. Late break	CC5-10 CC5-01	
Front mounting (4 pole)	1 block: A9 – A26-40-00 A30 – A110 AE9 – AE110	4 N.O. 3 N.O. & 1 N.C. 2 N.O. & 2 N.C. 4 N.C. 2 N.O./2 N.C.①	CA5-40E CA5-31E CA5-22E CA5-04E CA5-11/11E	30
	1 block: A9 – A40-30-10 AL9 – AL40-30-10	3 N.O. & 1 N.C. 2 N.O. & 2 N.C. 1 N.O. & 3 N.C. 4 N.C. 4 N.O. 2 N.O./2 N.C.①	CA5-31M CA5-22M CA5-13M CA5-04M CA5-40N CA5-11/11M	
Side mounting (2 pole)	2 blocks: A9 – A75, AE9-AE45 1 block: AE50 – AE75, AL9 – AL40	1 N.O. & 1 N.C.	CAL5-11	
	1 block: A/AE/AF95 – A/AE/AF110	1 N.O. & 1 N.C.	CAL18-11	
	2 blocks: A145 – A300, AF145-AF2050	1 N.O. & 1 N.C. (inside L or R)	CAL18-11	
	2 blocks: A145 – A300, AF145-AF2050	1 N.O. & 1 N.C. (outside, L or R)	CAL18-11B	

Auxiliary contact blocks – Front mounting, switching low voltage and low current

Positioning	Maximum number of contact blocks	Contact Description	Degree of protection	Catalog number	List price
Front mounting (single pole)	4 blocks: A9 – A26 AE9 – AE26 AL9 – AL26	1 N.O. 1 N.C. 1 N.O. 1 N.C.	IP40 IP40 IP40 IP40	CE5-10D0.1 CE5-01D0.1 CE5-10D2 CE5-01D2	\$ 38
	5 blocks: A30, A40, AE30, AE40, AL30, AL40 6 blocks: A45 – A110 AE45 – AE110 AF45 – AF110	1 N.O. 1 N.C. 1 N.O. 1 N.C.	IP67 IP67 IP67 IP67	CE5-10W0.1 CE5-01W0.1 CE5-10W2 CE5-01W2	

① Includes 1 N.O. & 1 N.C. overlapping

Accessories

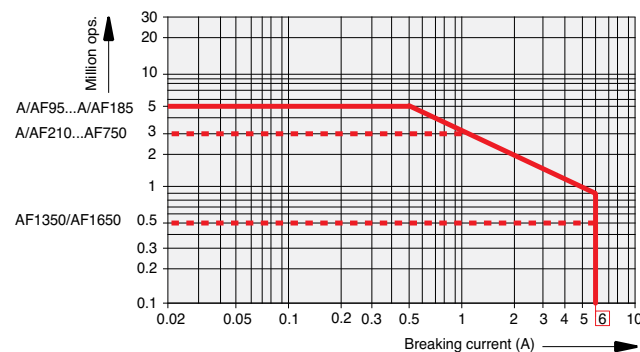
Auxiliary contact block technical data CA5/CAL5-11/CAL18-11/CC5

Across the line
contactors

1

Types			1-pole CA5, 4-pole CA5 2-pole CAL5-11 and 1-pole CC5	CAL18-11 CAL18-11B
Standards			IEC 947-5-1 and EN 60947-5-1	
Rated insulation voltage U_i according to IEC 947-5-1 according to UL/CSA	V		690	690
	V		600	690
Rated operational voltage U_o	~ V		24 to 690	
Conventional thermal current I_{th}	A		16	
Rated operational current I_o in AC-15 acc. to IEC 947-5-1	24 to 127 V	A	6	
	220 to 240 V	A	4	
	380 to 440 V	A	3	
	500 to 690 V	A	2	
in DC-13 acc. to IEC 947-5-1	24 V	A	6	
	48 V	A	2.8	
	72 V	A	1	
	125 V	A	0.55	
	250 V	A	0.3	
Connecting terminals (delivered in open position. Screws of unused terminals should be tightened).			M 3.5 (+,-) pozdriv 2 screw with cable clamp	
Connecting capacity				
• Rigid solid	1 or 2 x mm ²		1 to 4	
• Flexible with cable end	1 x mm ²		0.75 to 2.5	
	2 x mm ²		0.75 to 2.5	
Mechanical durability			cycles	
			10 million, A9 - A75;	5 million, A/AF95 - A/AF185; 3 million, A/AF210 - AF750; 0.5 million, AF1350 & AF1650
Max. switching frequency	cycles/h		3600	
Electrical durability	cycles/h		See curve below	
Max. switching frequency	cycles/h		1200	
Rated making capacity			10 x I_o AC-15	
Rated breaking capacity			10 x I_o AC-15	
Rated short-time withstand current I_{cw} q = 40°C	1 s	A	100	
	0.1 s	A	140	
Min. switching capacity			17 V / 1 mA	24V / 50 mA
Short-circuit protection - gG (gl) fuses			A	10
Power loss per pole at 6 A			W	0.15
Degree of protection according to IEC 529, IEC 144, DIN 40 050 and NFC 20-010			IP 20	

CAL18



Electrical durability

AC-15 according to IEC 947-5-1

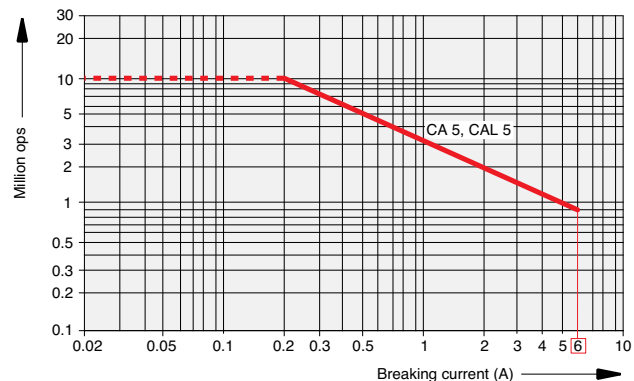
making current: 10 x I_o where $\cos \phi = 0.7$ and U_o

breaking current: I_o where $\cos \phi = 0.4$ and U_o

The curves opposite show the electrical durability of the auxiliary contact blocks according to breaking current I_o .

These curves have been plotted for resistive and inductive loads up to 690 V, 40 to 60 Hz.

CA5, CAL5



Accessories

Auxiliary contact block technical data CE5

Auxiliary contact blocks for switching low level voltage and current

Types		CE5-10D0.1 CE5-01D0.1 CE5-10W0.1 CE5-01W0.1 Version 100 mA	CE5-10DZ CE5-01DZ CE5-10WZ CE5-01WZ Version 2 A
Standards		IEC 947-5-1 and EN 60947-5-1	
Approvals		UL / CSA	
Rated insulation voltage U_i according to IEC 947-5-1 according to UL/CSA	V	250	250
	V	125	250
Rated operational voltage U_e	V	125	250
Rated operational current I_e in AC-15 or AC-14 acc. to IEC 947-5-1 in DC-12 acc. to IEC 947-5-1	24 V A	0.1	2
	60 V A	0.1	2
	110 V A	0.1	0.5
	220 V A	0.1	0.2
	220 V A	0.1	0.1
Minimal switching		3 V / 1 mA	17 V / 1 mA
Reliability for the minimal switching		10 ⁻⁸	
Connecting terminals		M3.5 (+,-) posidriv 2 screw with cable clamp	
Connecting capacity • Rigid solid • Flexible with cable end		1 ou 2 (1...4) mm ² 1 ou 2 (0.75... 2.5) mm ²	
Short circuit protection		100 mA	10 A
Degree of protection according to IEC529, IEC 144, DIN 40 050, NFC 20-010		IP 20	
Mounting		Front mounting on contactors: A, AE, TAE9...110, AL, AF, GA, N, NE	
Dimensions		Identical to those of CA5 single pole	