

## Accessories for A/AF/AL & AE contactors

CA5-10

CAL5-11

Auxiliary contact blocks – Standard

Auxiliary con	laci Diocks – Stanuaru			
Positioning	Maximum number of contact blocks	Contact Description	Catalog number	
Front mounting		1 N.O. 1 N.C.	CA5-10 CA5-01 CC5-10	
(single pole)	5 blocks: A30, A40, AE30, AE40, AL30, A 6 blocks: A45 – A110 AE45 - AE110 AF45 - AF110	1 N.C. Late break	CC5-01	
Front mounting (4 pole)	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. <sup>1</sup>	CA5-40E CA5-31E CA5-22E CA5-04E CA5-11/11E	
	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. 2 N.O./2 N.C. <sup>1</sup>	CA5-31M CA5-22M CA5-13M CA5-04M CA5-40N CA5-11/11M	
	2 blocks: A9 – A75, AE9-AE45 1 block: AE50 – AE75, AL9 – AL40	> 1 N.O. & 1 N.C.	CAL5-11	
Side mounting	1 block: A/AE/AF95 - A/AE/AF110	1 N.O. & 1 N.C.	CAL18-11	
(2 pole)	2 blocks: A145 – A300, AF145-AF2050 2 blocks: A145 – A300, AF145-AF2050	1 N.O. & 1 N.C. (inside L or R) 1 N.O. & 1 N.C. (outside, L or R)	CAL18-11 CAL18-11B	

## Auxiliary contact blocks - Front mounting, switching low voltage and low current

	<b>.</b>				
Positioning	Maximum number of contact blocks	Contact Description	Degree of protection	Catalog number	
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	
	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	

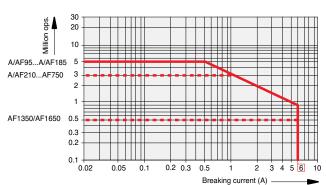


# Accessories Auxiliary contact block technical data CA5/CAL5-11/CAL18-11/CC5



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 <sub>i</sub> according to IEC 947-5-1 according to UL/CSA		v v	690 600	690 690
Rated operational voltage U <sub>e</sub>		~ V	24 to 690	
Conventional thermal current Ith		Α	16	
Rated operational current l <sub>e</sub> in AC-15 acc. to IEC 947-5-1	24 to 127 V 220 to 240 V 380 to 440 V 500 to 690 V	A A A A	6 4 3 2	
in DC-13 acc. to IEC 947-5-1	24 V 48 V 72 V 125 V 250 V	A A A A A	6 2.8 1 0.55 0.3	i
Connecting terminals (delivered in open position. Screws of unused terminals should be tightened).		).	M 3.5 (+,-) pozic with cable	
Connecting capacity <ul> <li>Rigid solid</li> </ul>	1 or 2 x mm <sup>2</sup>		1 to 4	4
Flexible with cable end	1 x mm <sup>2</sup>		0.75 to	
	2 x mm <sup>2</sup>		0.75 to 2.5	
Aechanical durability	су	cles	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		es/h	3600	
Electrical durability Max. switching frequency cycles/h		es/h	See curve below 1200	
Rated making capacity Rated breaking capacity		10 × I <sub>e</sub> AC-15 10 × I <sub>e</sub> AC-15		
Rated short-time withstand current $I_{cw}$ q = 40°C	1 s 0.1 s	A A	100 140	
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

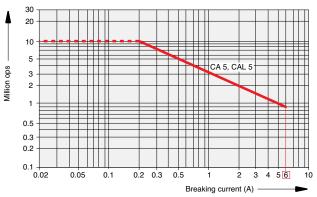
making current: 10 x  $I_e$  where  $\cos \phi = 0.7$  and  $U_e$ 

breaking current:  $I_e$  where  $\cos \phi = 0.4$  and  $U_e$ 

The curves opposite show the electrical durability of the auxiliary contact blocks according to breaking current  ${\rm I}_{\rm c}.$ 

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	CE5-10DZ	
		CE5-01D0.1	CE5-01DZ	
		CE5-10W0.1 CE5-01W0.1	CE5-10WZ CE5-01WZ	
		Version 100 mA	Version 2 A	
Standards		IEC 947-5-1 and EN 60947-5-1		
Approvals		UL / CSA		
Rated insulation voltage U <sub>i</sub>				
according to IEC 947-5-1	V	250	250	
according to UL/CSA	v	125	250	
Rated operational voltage U <sub>e</sub>	v	125	250	
Rated operational current I <sub>e</sub>				
in AC-15 or AC-14 acc. to IEC 947-5-1	A	0.1	2	
in DC-12 acc. to IEC 947-5-1 24 V	A	0.1	2	
60 V	A	0.1	0.5	
110 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		1 ou 2 (14) mm <sup>2</sup>		
Flexible with cable end		1 ou 2 (0.75 2.5) mm <sup>2</sup>		
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, TAE9110, AL, AF, GA, N, NE		
Dimensions		Identical to those of CA5 single pole		

1.18