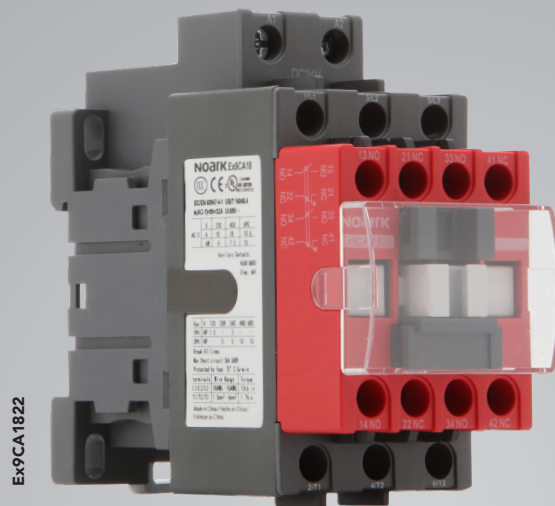


Information Sheet Ex9CA Safety Contactor



NOARK Electric Safety Contactor

Features/Highlights

- Positively guided mirror contacts/mechanically linked contacts according to IEC/UL60947-4-1 Annex F, IEC/UL60947-5-1 Annex L
- Mirror contacts/ mechanically linked symbol on the side of Aux block
- Fixed transparent anti-dust cover for easy identification of the device action and prevents the manual operation
- AC or DC operating coils
- Integrated body with built in auxiliary contacts up to 2 NC and 2NO
- Integrated surge suppression on DC coil models
- Easily mounts on DIN 35mm or panel
- 5-Year limited warranty

Applications

- E-stops
- Light curtains
- Safety gates
- Safety interlocks.



		Ex9CA					
		9	12	18	25	32	38
General Information							
Pole		3					
Production Standard		IEC 60947-1, IEC 60947-4-1, UL 60947-1, UL 60947-4-1, GB/T14048.4					
Environmental Testing According to		IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-11, IEC 60068-2-30					
Rated Frequency (Hz)		50/60					
Conventional Free Air Thermal Current Ith (A)	0≤104 °F (0≤40 °C)	25	32	40	50		
	0≤140 °F (0≤60 °C)	17	22	28	35		
	0≤158 °F (0≤70 °C)						
Rated Insulating Voltage Ui (V)		690					
Rated Impulse Withstand Voltage Uimp (kV)		6					
Electrical Life (x10 ⁴ cycles)		120					
Mechanical Life (x10 ⁴ cycles)	AC-3	5	4	5	4		
	AC-4	1,000					
Operating Cycles Per Hour (cycles/h)	AC-3	1,200			1,000		
	AC-4	300			150		
Environmental Temperature	Transportation or Storage	-76 to 176 °F (-60 to +80 °C)					
	Working At	-4 to 140 °F (-20 to +60 °C)					
	Maximum	-40 to 158 °F (-40 to +70 °C)					
Altitude ft (m)		6,562 (2,000)					
Pollution Degree		Class III					
Rated Operating Voltage (Ue)	AC 50/60 HZ	24, 48, 120, 240					
	DC						
Rated Operational Current Ie (A)							
At -82 to 131 °F (-25 to 40 °C)	AC-1 690 V	25	32	40	50		
	AC-3 380/400 V	9	12	18	25	32	38
	AC-3 660/690 V	6.7	9	10.6	17.3	21.9	
	AC-4 380/400 V	9	12	18	25	32	
	AC-4 660/690 V	6.7	8.9	14	17.3		
Rated Power of 3-Phase Motor							
For IEC (kW)	AC-3 230 Vac	-					
	AC-3 380/400 Vac	4	5.5	7.5	11	15	18.5
	AC-4 380/400 Vac	15					
	AC-3 660/690 Vac	5.5	7.5	9	15	18.5	
	AC-4 660/690 Vac	5.5	7.5	11	15		
	AC-3 1,000 Vac	-					
AC-4 1,000 Vac	-						
UL Rating							
Ith (A)		25	32	40	50		
Single-Phase (HP)	110-120 Vac	0.5	1	1.5	2	3	
	220-240 Vac	1.5	2	3		5	
Three-Phase (HP)	200-208 Vac	3		5	7.5	10	
	220-240 Vac	3		5	7.5	10	
	440-480 Vac	5	7.5	10	15	20	
	550-600 Vac	7.5	10	15	20	25	

		Ex9CA					
		9	12	18	25	32	38
AC-12 Rated Thermal Current / th							
Ambient temperature 40°C	24...240V (A)					10	
	230...500V (A)					10	
	230...690V (A)					10	
Ambient temperature 60°C / th	24...240V (A)					10	
	230...500V (A)					10	
	230...690V (A)					10	
AC-15/A600							
<i>I_e</i>	24V (A)					—	
	48 (A)					—	
	120V (A)					6	
	230V (A)					3	
	240V (A)					3	
	400V (A)					1.9	
	480V (A)					1.5	
	500V (A)					1.4	
	600V (A)					1.2	
690V (A)					—		
DC-13							
<i>I_e</i>	24V(A)					2.8	
	48V(A)					1.2	
	110V(A)					0.55	
	220V(A)					0.27	
	440V(A)					0.15	
Load Carrying Capacity per UL							
Rated voltage AC (V)						Max. 600	
Continuous rating 40 °C (A)						10	
Switching capacity AC (A)						A600	
Rated voltage DC (V)						Max. 600	
Switching capacity DC (A)						Q600	
Tolerance of Control Voltage							
AC control (50/60 Hz)	pick-up (x Us)					0.85...1.1	
	dropout (x Us)					0.2...0.75	
DC control	pick-up (x Us)					0.8...1.1	
	dropout (x Us)					0.1...0.75	
Coil Power Consumption							
AC control (50/60 Hz)	pick-up (VA)					120VA(9CA09-18)/140VA(9CA25-38)	
	hold-in (VA)					12VA(9CA09-18)/14VA(9CA25-38)	
DC control	pick-up (W)					≤70	
	hold-in (W)					≤3.5	
Operating Time							
AC	closing delay (ms)					15...30	
	opening delay (ms)					15...25	
DC	closing delay (ms)					100...170	
	opening delay (ms)					30-100	
Typical Lifetime							
<i>B_{10D}</i> Value (Electrical)	DC Coil	1.08x10 ⁶			1.13x10 ⁶		
	AC Coil	1.28x10 ⁶			1.25x10 ⁶		

Product Selection Guide

