

Information Sheet IEC Contactors Ex9C Series



NOARK Electric's Miniature and Standard IEC Contactors A perfect blend of quality, performance and exceptional value

Broad Product Range

- Miniature contactor rated current: 6~12 A
- Standard contactor rated current: 9~1000 A

Global Acceptance

- UL 508 listed, certified for CSA standards, IEC 60947-4-1 and CCC certified

Benefits

- Four coil types: AC, DC, Vac/dc and wide range operating
- Mount onto DIN rail 35 mm or 75 or onto panel (frame sizes 09~38 mount on 35 mm; 40~100 mount on 35 mm or 75 mm; 115~500 cannot mount on DIN rail, only mount by screw)



General Information	Ex9CS/CSR			Ex9C/CR																																																																																							
	6	9	12	9	12	18	25	32	38	40	50	65	80	100	115	150	185	225	265	300	400	500	630	800	1000																																																																		
Pole	3, 4			3																																																																																							
Production Standard	IEC 60947-1, IEC 60947-4-1, UL 60947-1, UL 60947-4-1																																																																																										
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	0≤104 °F (0≤40 °C)																																																																																										
Free Air Thermal	0≤140 °F (0≤60 °C)																																																																																										
Current Ith (A)	0≤158 °F (0≤70 °C)																																																																																										
Rated Insulating Voltage Ui (V)	690												1,000																																																																														
Rated Impulse Withstand Voltage Uimp (kV)	6												8																																																																														
Electrical Life (x10 ⁴ cycles)	AC-3			AC-4			380/400 V			120												100						80		50																																																													
Mechanical Life (x10 ⁴ cycles)	5												4												5						4		3.5		3		2.5		20																																																				
Operating Cycles Per Hour (cycles/h)	AC-3												AC-4												1,200						1,000						900						750						500						420		300		120																																
Environmental Temperature	Transportation or Storage												Working At												Maximum												-76 to 176 °F (-60 to +80 °C)												-4 to 140 °F (-20 to +60 °C)												-40 to 158 °F (-40 to +70 °C)																														
Altitude ft (m)	6,562 (2,000)																																																																																										
Pollution Degree	Class III																																																																																										
Rated Operational Current Ie (A)	Class III																																																																																										
At -82 to 131 °F (-25 to 40 °C)	AC-1		690 V		20			25			32			40			50			60			80			125			160			185			215			275			330			400			500			610			800			1000			1000																																
	AC-3		380/400 V		6			9			12			9			12			18			25			32			38			40			50			65			80			100			115			150			185			225			265			300			400			500			630			800			1000			1000											
	AC-3		660/690 V		3.8			4.9			6.7			9			10.6			17.3			21.9			34			39			42			49			54			68			81			96			117			125			150			175			225			242			260																							
	AC-4		380/400 V		6			9			12			18			25			32			40			50			65			80			100			115			150			185			225			265			300			400			500			630			800			1000			1000																				
	AC-4		660/690 V		3.8			4.9			6.7			8.9			14			17.3			34			39			42			49			48			57			65			85			105			115			135			150			200			215			230																										
Rated Power of 3-Phase Motor For IEC (kW)	AC-3		230 Vac		-												37			45			55			75			90			132			160			200			250			315																																															
	AC-4		380/400 Vac		2.2			4			5.5			4			5.5			7.5			11			15			18.5			18.5			22			30			37			45			55			75			90			110			132			160			220			250			335			450			560														
	AC-3		660/690 Vac		3			4			5.5			7.5			9			15			18.5			30			33			37			45			50			55			63			80			100			110			132			150			185			200			220																							
	AC-4		380/400 Vac		3			4			5.5			7.5			11			15			18.5			30			33			37			45			50			55			63			80			100			110			132			150			185			200			220																							
	AC-3		660/690 Vac		3			4			5.5			7.5			11			15			18.5			30			33			37			45			50			55			63			80			100			110			132			150			185			200			220																							
	AC-4		1,000 Vac		-												50			55			63			80			100			110			132			150			185			200			250			315			400			450			500																																
UL Rating Ith (A)	20			25			32			40			50			60			80			80			125			160			185			215			275			330			400			500			610			800			900			1000																																	
	Single-Phase (HP)		110-120 Vac		0.5			0.75			0.5			1			1.5			2			3			5			5			5			7.5			10			15			20			25			30			40			50			60			75			90			110			132			160			220			250			335			450			560		
	Three-Phase (HP)		200-208 Vac		1.5			3			5			7.5			10			15			20			30			30			30			40			40			40			50			60			75			100			125			150			200			250			300			400			500																	
	Coil Voltage (V)		24~500Vac, 12~250 Vdc		24~600 Vac, 24-250Vac/dc												24~600 Vac/dc												36~600 Vac/dc						48 - 480 Vac/dc																																																								

Product Selection Guide

Ex9C	S	R	09	D	10	A	7	B	G	Accessories
NOARK Ex9C Series	Contactors Type	Function	Rated Current (AC-3)	Coil Type	Auxiliary Contacts	Control Voltage	Frequency	Main Power Contacts	Application	Accessories
	Blank: Ex9C Standard (9~1000 A) S: Ex9C Miniature (6~12 A)	Blank: Full Voltage Non-Reversing (FVNR) R: Full Voltage Reversing (FVR)	06: 6 A 09: 9 A 12: 12 A 18: 18 A 25: 25 A 32: 32 A 38: 38 A 40: 40 A 50: 50 A 65: 65 A 80: 80 A 100: 100 A 115: 115 A 150: 150 A 185: 185 A 225: 225 A 265: 265 A 300: 300 A 400: 400 A 500: 500 A 630: 630 A 800: 800 A 1000: 1000 A	Blank: AC D: DC (Miniature Contactor Only) E: Vac/dc (115~1000A Only) F: Wide Range Electronic Coil (09A~500A Only)	10: 1NO (9CS Only) 01: 1NC (9CS Only) 11: 1NO+ 1NC (9~100A Only) 22: 2NO+ 2NC (09~38/115~1000A)	A: 12V B: 24V* C: 36V* D: 42V* E: 48V F: 110V G: 120V X: 208V M: 220V P: 230V U: 240V W: 250V N: 277V Q: 380V V: 400V Z: 415V R: 440V T: 480V S: 500V Y: 600V J: 24-60Vac/dc (09~100A Only) H: 48-130Vac/dc K: 100-250Vac/dc L: 250-500Vac/dc (115~500A Only)	7: 50/60 Hz	Blank: 3NO B: 2NO+ 2NC (9CS Only) C: 4NO (9CS Only)	G: No top mounting accessories for special industry (115-1000A)	• Auxiliary Contact • Coil • Mechanical Interlock • Power Connection • Surge Suppressor Block • Time Delay Relay

* Note: 24Vac is not available from 400A to 1000A
36Vac, 42Vac are not available from 630A to 1000A