

# NOARK

## Information Sheet Thermal Overload Relays

Ex9R Series  
Compatible with Ex9C



Ex9R100



Ex9RD12



## NOARK Electric's Ex9R Thermal Overload Relays A perfect blend of quality, performance and exceptional value

### Broad Product Range

- 5 frame sizes: 12~500 A
- Overload protection trip Class 10 and 10 A
- Rated current up to 500 A @ 600 Vac, 50/60 Hz
- Direct mount to Ex9C series contactors

### Global Acceptance

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

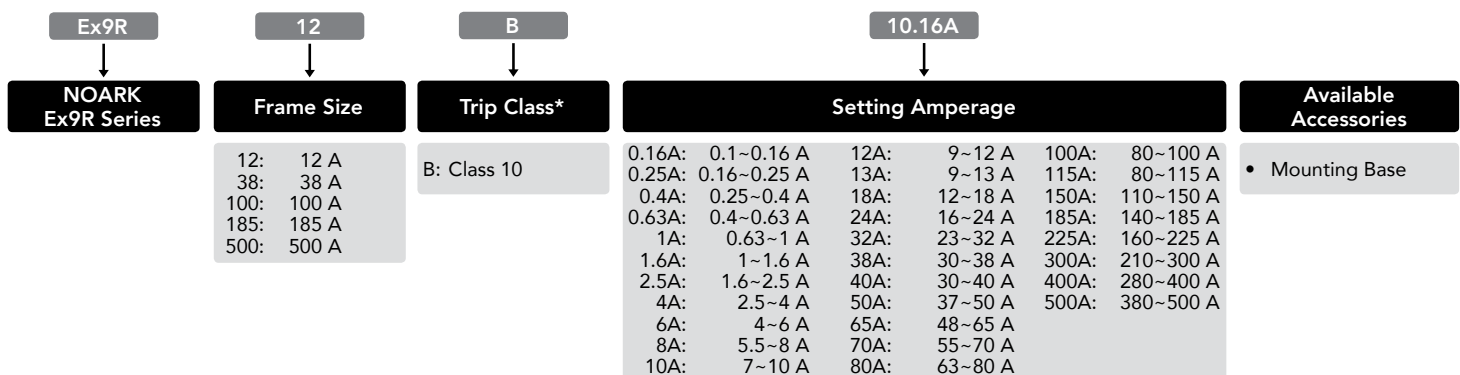
### Benefits

- Phase loss sensitivity
- Adjustable current setting for overload protection
- Automatic or manual reset selectable
- Trip-free mechanism
- Status indication
- STOP and TEST function



		12 A	38A	100 A	185 A	500 A
Matched Ex9CD Contactor		Ex9CS06~12	Ex9C09~38	Ex9C40~100	Ex9C115~185	Ex9C225~500
Tripping Class		Class 10/10 A				
Operating Frequency (Hz)		50/60				
Phase Failure Protection Function						
Automatic and Manual Reset						
Temperature Compensation		Yes				
Tripping Indicator						
Test and Stop Pushbutton						
Environmental Conditions	Altitude ft (m)	6,562 (2,000)				
	Pollution Degree	Class III				
Rated Tripping Current (In)		1.2				
Sensitivity to Phase Failure (In)		30%				
Rated Working Voltage (V)		600				
Rated Impulse Withstand Voltage Uimp		6 kV				
Auxiliary Contacts	Number of Contacts	1NO+1NC				
	Rated Operating Voltage Ue (V)	AC-15		220 / 380		
		DC-13		220		
	Rated Operating Current Ie (A)	AC-15		1.64 / 0.95		
		DC-13		0.13		
	Circuit Continuous Current	5 A 600 Vac, 1 A 300 Vdc				
	Contact Rating	B600, R300				
	Terminal Wire Range AWG (mm <sup>2</sup> )	#18-12 (1-3)				
	Terminal Torque in-lb (N.m)	15 (1.70)				
Terminal Wire Strip Length in (mm)		0.43 (11)				
Power Terminal		#18-10 AWG	#18-10 AWG/#8 AWG Str	#12-10 AWG/#8-1 AWG Str	Bus Bar Only	
Power Terminal Torque in-lb (N.m)		15 (1.7)	22 (2.5)	80 (9)	159 (18)	310 (35)
Power Terminal Wire Strip Length in (mm)		0.43 (11)	0.51 (13)	0.71 (18)	-	
	Current Rated (A)	Short Circuit Rating, 3 Phase @ 600 Vac (kA)				
Current Setting Range (A)	0.16~1.6	1	0.1~0.16, 0.16~0.25, 0.25~0.4, 0.4~0.63	-		
	1~1.6		-	0.63~1, 1~1.6		
	2.5~12	5	1.6~2.5, 2.5~4, 4~6, 5.5~8, 7~10, 9~12	-		
	2.5~38		1.6~2.5, 2.5~4, 4~6, 5.5~8, 7~10, 9~13, 12~18, 16~24, 23~32, 30~38	-		
	32~50		-	23~32, 30~40, 37~50		
	65~100	10	-	48~65, 55~70, 63~80, 80~100		
	115~185		-	-	80~115, 110~150, 140~185	
	225~500		30	-	-	-

## Product Selection Guide



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