



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), AUTOMATIC RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.9...1.5A

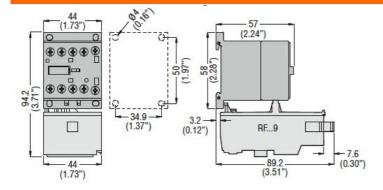


Product designation			11RFNA9
Product type designation			Motor protection relay
General characteristics			
Number of poles		Nr.	3
Overvoltage category			III
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	4
	aM (IEC)	Α	2
	K5 (UL)	Α	6
Phase failure detection			yes
Reset mode			Automatic
Power circuit characteristics			
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Rated operational voltage		V	690
Operational frequency			
	min	Hz	0
	max	Hz	400
Operational current le			
	Operational current min	Α	0.9
	Operational current max	Α	1.5
Tripping class			10A
Test Button			yes
Trip indicator			yes
Terminals			
	type		screw and
	type		washer
	screw		M4
	width	mm	9.8
	tool		Phillips 2
	tool		<u> </u>
Tightening torque for terminals			
Tightening torque for terminals	min	Nm	2.3
Tightening torque for terminals	min max	Nm	2.3 2.3
Tightening torque for terminals	min max min	Nm Ibin	2.3 2.3 1.7
	min max	Nm	2.3 2.3
Tightening torque for terminals Conductor section	min max min max	Nm Ibin	2.3 2.3 1.7 1.7
Conductor section	min max min	Nm Ibin	2.3 2.3 1.7
Conductor section Auxiliary circuit characteristics	min max min max	Nm Ibin	2.3 2.3 1.7 1.7
Conductor section	min max min max AWG/kcmil max	Nm Ibin Ibin	2.3 2.3 1.7 1.7
Conductor section Auxiliary circuit characteristics	min max min max AWG/kcmil max	Nm Ibin Ibin	2.3 2.3 1.7 1.7
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Auxiliary Rated impulse withstand voltage Uimp	Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated operational voltage IEC Conventional free air thermal current Ith				
EC Conventional free air thermal current Ith Terminals			V	690
Auxiliary circuit type			Α	10
Auxiliary circuit type	Terminals			
Auxiliary circuit width Auxiliary circuit resible w/o lug max Auxiliary circuit resible c/w lug max Auxiliary circuit mine Auxiliar		Auxiliary circuit type		
Auxiliary circuit width Auxiliary circuit twidth Auxiliary circuit tool		Auxiliary circuit screw		M3.5
Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit min Auxiliary circuit max Auxiliary circuit min Auxiliary circuit max Auxiliary Circuit max Auxiliary circuit min Auxiliary Circuit max Auxiliary cir			mm	8
Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit min Auxiliary circuit min Auxiliary circuit min Auxiliary circuit min Auxiliary circuit max Auxiliary cir		•		Phillips 1
Auxiliary circut Flexible c/w lug max mm² 2.5	Conductor section			
Auxiliary circuit min		Auxiliary circuit Flexible w/o lug max	mm²	2.5
Auxiliary circuit min Auxiliary circuit max Auxiliary circuit max Auxiliary circuit max Auxiliary circuit min Auxiliary circuit min Auxiliary circuit min Auxiliary circuit max Auxiliary circuit max Auxiliary circuit max Auxiliary circuit max Ibin 0.74		Auxiliary circut Flexible c/w lug max	mm²	2.5
Auxiliary circuit max	Tightening torque for terminals			
Auxiliary circuit min Auxiliary circuit max Ibin 0.74 bin 0.74 UL/CSA and IEC/EN 60947-5-1 designation C600-R300 Ambient conditions min °C -20 max °C +55 Operating temperature min °C +55 Storage temperature min °C -55 max °C +70 Compensation temperature min °C -15 max °C +55 Max altitude m 3000 Mechanical features normal allowable Vertical plan ±30° Pixing Direct mounting on BG06 BG09 BG12 Weight g 123		Auxiliary circuit min	Nm	1
Auxiliary circuit max Ibin 0.74		Auxiliary circuit max	Nm	1
UL/CSA and IEC/EN 60947-5-1 designation C600-R300 Ambient conditions Operating temperature min °C -20 max °C +55 Storage temperature min °C -55 max °C +70 Compensation temperature min °C -15 max °C +55 Max altitude m 3000 3000 Mechanical features Operating position Vertical plan allowable ±30° Direct mounting on BG06 BG09 BG12 BG09 BG12 BG09 BG12 BG09 BG12 BG09 BG12 BG09 BG12 BG09 BG09 <td< td=""><td></td><td>Auxiliary circuit min</td><td>lbin</td><td>0.74</td></td<>		Auxiliary circuit min	lbin	0.74
Ambient conditions Operating temperature min °C -20 max °C +55 Storage temperature min °C -55 max °C +70 Compensation temperature min °C -15 max °C +55 Max altitude m 3000 Mechanical features m 3000 Operating position normal allowable ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123		Auxiliary circuit max	lbin	0.74
Operating temperature min °C -20 max °C +55 Storage temperature min °C -55 max °C +70 Compensation temperature min °C -15 max °C +55 Max altitude m 3000 Mechanical features m 3000 Operating position normal allowable ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123	UL/CSA and IEC/EN 60947-5-1 designation			C600-R300
min max °C -20 max -20 +55 Storage temperature min °C -55 max °C +70 Compensation temperature min °C -15 max °C +55 Max altitude m 3000 Mechanical features m 3000 Operating position normal allowable ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123	Ambient conditions			
max °C +55 Storage temperature min °C -55 max °C +70 Compensation temperature min °C -15 Max °C +55 Max altitude m 3000 Mechanical features Operating position vertical plan Inormal allowable ±30° Direct mounting on BG06 BG09 BG12 BG09 BG12 Weight g 123	Operating temperature			
Storage temperature min or compensation temperature min or compensation or compensation temperature min or compensation or compensation temperature min or compensation or compen		min		
min max °C max -55 max Compensation temperature min °C min °C -15 max -15 max Max altitude m 3000 Mechanical features m 3000 Operating position normal allowable Vertical plan ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123		max	°C	+55
max °C +70 Compensation temperature min °C -15 max °C +55 Max altitude m 3000 Mechanical features Operating position normal allowable ±30° Direct mounting on BG06 BG09 BG12 Weight g 123	Storage temperature			
Compensation temperature min °C -15 max °C +55 Max altitude m 3000 Mechanical features Operating position normal vertical plan allowable ±30° Direct mounting on BG06 BG09 BG12 Weight		min		
min max °C +55 Max altitude m 3000 Mechanical features Operating position normal allowable ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123		max	°C_	+70
Max altitude max °C +55 Mechanical features 3000 Operating position normal allowable Vertical plan + 30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123	Compensation temperature			
Max altitude m 3000 Mechanical features Operating position normal Vertical plan allowable ±30° Direct mounting on BG06 BG09 BG12 Weight		min		
Mechanical features Operating position normal allowable Vertical plan ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123		max	°C	
Operating position normal allowable Vertical plan ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123			m	3000
normal allowable Vertical plan ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123				
Fixing allowable ±30° Fixing Direct mounting on BG06 BG09 BG12 Weight g 123	Operating position			
Fixing Direct mounting on BG06 BG09 BG12 Weight g 123				
Fixing on BG06 BG09 BG12 Weight g 123		allowable		
Weight g 123	Fixing			on BG06
·	Weight		а	
	Dimensions		9	

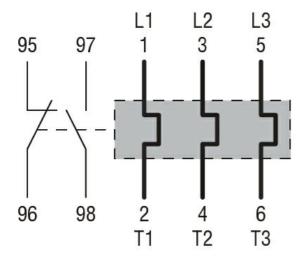


Wiring diagrams





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Certificat	ions and	l compl	liance
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Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

CCC

CSA

cULus

EAC