



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 1.4...2.3A



Product designation			11RFN9
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	6
	aM (IEC)	Α	4
	RK5 (UL)	Α	10
Phase failure detection	• •		yes
Reset mode			Manual
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	1.4
	Operational current min Operational current max	A A	
Tripping class	Operational current min Operational current max		1.4 2.3 10A
Tripping class Test Button			2.3 10A
Test Button			2.3 10A Yes
Test Button Trip indicator			2.3 10A
Test Button	Operational current max		2.3 10A Yes yes
Test Button Trip indicator			2.3 10A Yes
Test Button Trip indicator	Operational current max		2.3 10A Yes yes
Test Button Trip indicator	Operational current max type		2.3 10A Yes yes screw and washer
Test Button Trip indicator	Operational current max type screw	A	2.3 10A Yes yes screw and washer M4
Test Button Trip indicator	Operational current max type screw width	A	2.3 10A Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw width	A	2.3 10A Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw width tool	mm	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width tool min	mm Nm	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Test Button Trip indicator Terminals	Operational current max type screw width tool min max	mm Nm Nm	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width tool min max min	mm Nm Nm Ibin	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7
Test Button Trip indicator Terminals Tightening torque for terminals	Operational current max type screw width tool min max min	mm Nm Nm Ibin	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min max min max	mm Nm Nm Ibin	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section	type screw width tool min max min max min max	mm Nm Nm Ibin	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section Auxiliary circuit characteristics	type screw width tool min max min max min max	mm Nm Nm Ibin	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section Auxiliary circuit characteristics	type screw width tool min max min max AWG/kcmil max	mm Nm Nm Ibin Ibin	2.3 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7





ENERGY AND AUTOMATION

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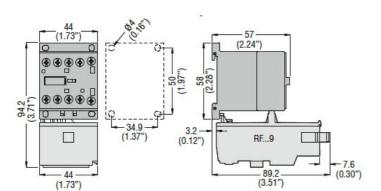
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and
	•		washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
Conductor section			
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals			
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	Ibin	0.74
III /CCA and IEC/EN COOAZ E 4 decimation	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation Ambient conditions			B600-P600
Operating temperature	min	°C	20
	min	°C	-20 55
Storage temperature	max	C	ວວ
Storage temperature	min	°C	EE
	min	°C	-55 -70
Companyation temperature	max	C	70
Compensation temperature	min	°C	1 <i>E</i>
	min	°C	-15 55
Max altitude	max		
Mechanical features		m	3000
Operating position			
Operating position	normal		Vertical plan
	allowable		Vertical plan ±30°
	allowable		Direct mounting
Fixing			on BG06
Weight		g	BG09 BG12 123
UL technical data			
Full-load current (FLA) for three-phase AC motor			
·	at 480V	Α	2.3
	at 600V	Α	2.3
Dimensions			

11RFN92V3

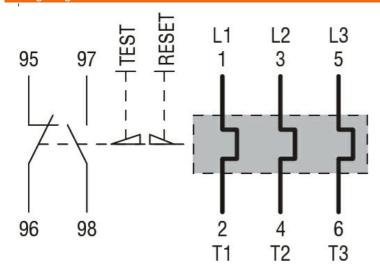




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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

CCC

CSA

cULus

EAC

ETIM classification

ETIM 8.0

EC000106 -Thermal overload

relay