

MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 3...5A



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	16
	aM (IEC)	Α	6
	RK5 (UL)	Α	15
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	3
	•		
	Operational current max	Α	5
Tripping class	Operational current max	А	5 10A
Tripping class Test Button	Operational current max	A	
	Operational current max	A	10A
Test Button	Operational current max	A	10A yes
Test Button Trip indicator	·	A	10A yes yes screw and
Test Button Trip indicator	Operational current max	A	10A yes yes screw and washer
Test Button Trip indicator	type screw	A	10A yes yes screw and washer M4
Test Button Trip indicator	type screw width	mm	10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	type screw		10A yes yes screw and washer M4
Test Button Trip indicator	type screw width tool	mm	10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width	mm	10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min max	mm Nm Nm	10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm Ibin	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	mm Nm Nm	10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min max min max	mm Nm Nm Ibin	10A yes 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	mm Nm Nm Ibin	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 Conductor section Auxiliary circuit characteristics	type screw width tool min max min max	mm Nm Nm Ibin	10A yes 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 AWG/kcmil max	mm Nm Nm Ibin Ibin	10A yes 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 Ibin Ibin	10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7
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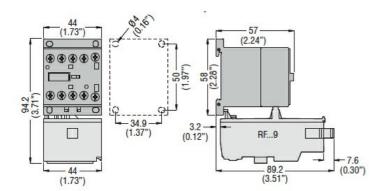
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	A	0.6
Operating current DC13	405)/	•	0.44
	125V	A	0.11
1500 11 11 11 11	600V	A	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		washer M3,5
	Auxiliary circuit screw Auxiliary circuit width	mm	1VI3,5 8
	Auxiliary circuit would Auxiliary circuit tool	111111	Phillips 1
Conductor section	Adamary official tool		1 11111p3 1
Conductor Cocion	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	, taxillary ellegt i lexible e, it lag max		
riginorning torquo for terminate	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	lbin	0.74
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation	•		B600-P600
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			
Operating position			
	normal		Vertical plan
	allowable		±30°
			Direct mounting
Fixing			on BG06
\\\\a\:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			BG09 BG12
Weight		g	123
UL technical data			
Full-load current (FLA) for three-phase AC motor	=1.4001/	٨	E
	at 480V	A	5
Dimensions	at 600V	A	5



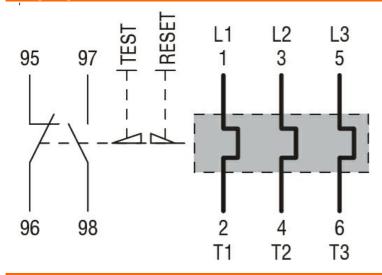


ENERGY AND AUTOMATION

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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