

11RF91

## MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.6...1A



Product designation			11RF9
Product type designation			Motor protection relay
General characteristics			
Number of poles		Nr.	3
Overvoltage category			Ш
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	4
	aM (IEC)	Α	2
	RK5 (UL)	Α	3
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	0.6
	Operational current min Operational current max	A A	0.6 1
Tripping class	Operational current min Operational current max		
Tripping class Test Button			1
Test Button			1 10A Yes
Test Button Trip indicator			1 10A
Test Button	Operational current max		1 10A Yes yes
Test Button Trip indicator			1 10A Yes
Test Button Trip indicator	Operational current max		1 10A Yes yes
Test Button Trip indicator	Operational current max		1 10A Yes yes screw and washer
Test Button Trip indicator	Operational current max  type screw	A	1 10A Yes yes screw and washer M4
Test Button Trip indicator	Operational current max  type screw width	A	1 10A Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max  type screw width	A	1 10A Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max  type screw width tool	mm	1 10A Yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min	Mm Nm	1 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	1 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm Ibin	1 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	mm Nm Nm Ibin	1 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	1 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	1 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	1 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	1 10A Yes yes  screw and washer M4 9.8 Phillips 2  2.3 2.3 1.7 1.7

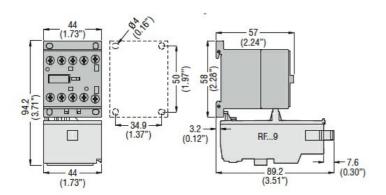


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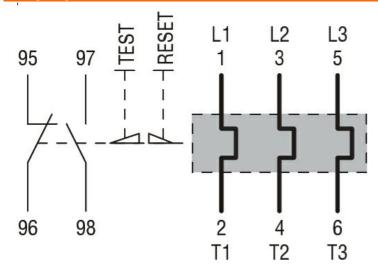
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	A	0.6
Operating current DC13	405)/	•	0.44
	125V	A	0.11
150 O	600V	A	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		wasner M3,5
	Auxiliary circuit screw	mm	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		2.0
riginoring torquo for terrimate	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
100			BG09 BG12
Weight		g	116
UL technical data			
Full-load current (FLA) for three-phase AC motor		_	
	at 480V	Α	1
Diversity	at 600V	Α	1
Dimensions			

**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