

## MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 6...10A



Product designation			11RF9
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	32
	aM (IEC)	Α	10
	RK5 (UL)	Α	30
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	6
	Operational current min Operational current max	A A	6 10
Tripping class	Operational current min Operational current max	A A	10
Tripping class Test Button	-		10 10A
Test Button	-		10 10A yes
Test Button Trip indicator	-		10 10A
Test Button	Operational current max		10 10A yes yes
Test Button Trip indicator	-		10 10A yes yes screw and
Test Button Trip indicator	Operational current max		10 10A yes yes screw and washer
Test Button Trip indicator	Operational current max  type screw		10 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max  type screw width	A	10 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max  type screw	A	10 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max  type screw width tool	mm	10 10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min	Mm Nm	10 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	10 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	mm Nm Nm Ibin	10 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm	10 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Trip indicator Terminals  Tightening torque for terminals	type screw width tool min max min max min max	mm Nm Nm Ibin	10 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	10 10A yes 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 min max	mm Nm Nm Ibin	10 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	10 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 min max	mm Nm Nm Ibin	10 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7



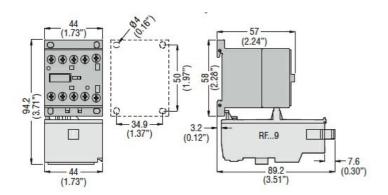
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			,
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	А	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
<del></del>	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	A Miles Star March	N. 1	
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min Auxiliary circuit max	lbin Ibin	0.74 0.74
UL/CSA and IEC/EN 60947-5-1 designation	Auxiliary circuit max	IDIII	B600-P600
Ambient conditions			D000-F000
Operating temperature			
Operating temperature	min	°C	-20
	max	°C	55
Storage temperature	IIIdA		
Otorage temperature	min	°C	-55
	max	°C	70
Compensation temperature	max		- 10
23portodiori torriporataro	min	°C	-15
	max	°C	55
Max altitude	. Tiex	 m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
			Direct mounting
Fixing			on BG06
			BG09 BG12
Weight		g	116
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	10
	at 600V	Α	10
Dimensions [mm (in)]			

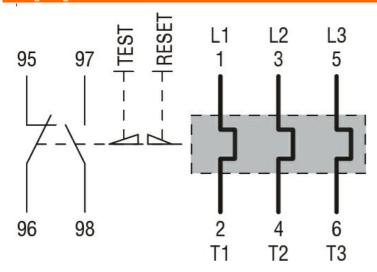


ENERGY AND AUTOMATION

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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