

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



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	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			_
- 1			
	Operational current min	Α	3
	Operational current min Operational current max	A A	3 5
Tripping class	Operational current min Operational current max	A A	5
Tripping class Test Button	-		5 10A
Test Button	-		5 10A Yes
Test Button Trip indicator	-		5 10A
Test Button	Operational current max		5 10A Yes yes
Test Button Trip indicator	-		5 10A Yes yes
Test Button Trip indicator	Operational current max		5 10A Yes yes
Test Button Trip indicator	Operational current max type screw		5 10A Yes yes screw and washer M4
Test Button Trip indicator	Operational current max type	A	5 10A Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw width	A	5 10A Yes yes screw and washer M4
Test Button Trip indicator	Operational current max type screw width tool	mm	5 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	5 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	mm Nm Nm	5 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	mm	5 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	5 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	mm Nm Nm Ibin	5 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	mm Nm Nm Ibin	5 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	5 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 AWG/kcmil max	mm Nm Nm Ibin Ibin	5 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	mm Nm Nm Ibin	5 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7



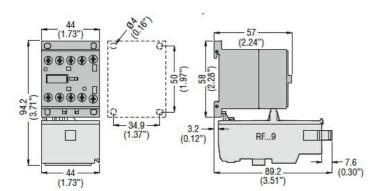
ENERGY AND AUTOMATION

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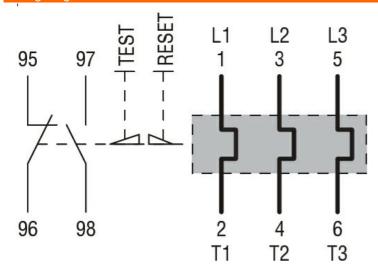
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
operaning carretine is	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auvilian, aircuit tua		screw and
	Auxiliary circuit type		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	lbin	0.74
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			B600-P600
Ambient conditions			
Operating temperature		2.0	
	min	°C	-20
	max	°C	55
Storage temperature		2.0	
	min	°C	-55
	max	°C	70
Compensation temperature		0.0	4.5
	min	°C	-15 -5
Mary althorate	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position	•		\/autic=l=lc:
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BG06 BG09 BG12
Weight		g	116
UL technical data		3	
Full-load current (FLA) for three-phase AC motor			
- I am i am a marini (i am a marini m	at 480V	Α	5
	at 400V	A	5
Dimensions			
umensions			

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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