

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			
	Operational current min	Α	3
	•		
	Operational current max	Α	5
Tripping class	Operational current max	Α	5 10A
Tripping class Test Button	Operational current max	A	
	Operational current max	A	10A yes
Test Button	Operational current max	A	10A
Test Button Trip indicator	·	A	10A yes
Test Button Trip indicator	Operational current max	A	10A yes yes
Test Button Trip indicator	·	A	10A yes yes screw and
Test Button Trip indicator	type	A mm	10A yes yes screw and washer
Test Button Trip indicator	type screw		10A yes yes screw and washer M4
Test Button Trip indicator	type screw width		10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	type screw width		10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	type screw width tool	mm	10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min	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 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 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	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	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	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  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  Auxiliary circuit characteristics	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



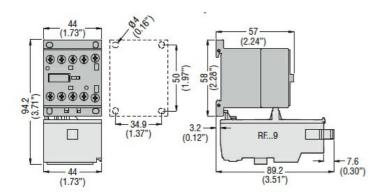
**ENERGY AND AUTOMATION** 

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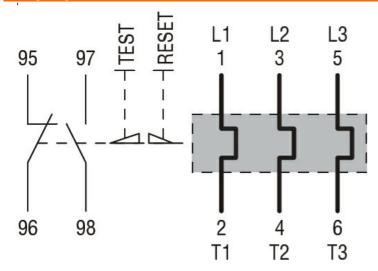
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
operaning carretine is	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	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 altitude	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