

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 2...3.3A



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	10
	aM (IEC)	Α	4
	RK5 (UL)	Α	10
Phase failure detection			yes
Reset mode			Manual
Power circuit characteristics			Mariaar
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Rated operational voltage		V	690
Operational frequency		v	
Operational moduloney	min	Hz	0
	max	Hz	400
Operational current le	IIIax	1 12	400
Operational current le			
	Operational aurrent min	٨	2
	Operational current may	A	2
Tripping along	Operational current min Operational current max	A A	3.3
Tripping class	-		3.3 10A
Test Button	-		3.3 10A yes
Test Button Trip indicator	-		3.3 10A
Test Button	-		3.3 10A yes yes
Test Button Trip indicator	Operational current max		3.3 10A yes yes screw and
Test Button Trip indicator	Operational current max type		3.3 10A yes yes screw and washer
Test Button Trip indicator	Operational current max type screw	A	3.3 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max type screw width		3.3 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw	A	3.3 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max type screw width tool	mm	3.3 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 Nm	3.3 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	3.3 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 Nm Nm Ibin	3.3 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	Operational current max type screw width tool min max	mm Nm Nm	3.3 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 max	mm Nm Nm Ibin	3.3 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	Operational current max type screw width tool min max min	mm Nm Nm Ibin	3.3 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	mm Nm Nm Ibin	3.3 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	3.3 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	3.3 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	3.3 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7

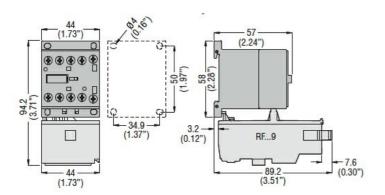


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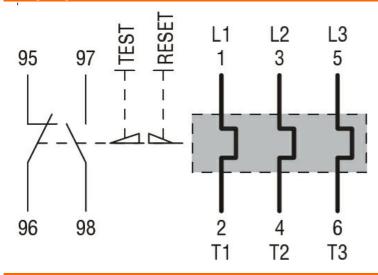
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	A	0.75
	500V	A	0.72
O	600V	A	0.6
Operating current DC13	405\/	۸	0.44
	125V	A	0.11
IFC Conventional free oil the armed accuracy like	600V	<u>А</u> А	0.22
IEC Conventional free air thermal current Ith Terminals		A	10
reminals			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit screw	mm	8
	Auxiliary circuit tool	*******	Phillips 1
Conductor section	rtarinary on our tool		
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals			
riginolinig to que le terminale	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	116
UL technical data			
Full-load current (FLA) for three-phase AC motor	=1.4001/	٨	2.2
	at 480V at 600V	A	3.3
Dimensions [mm (in)]	at 6000V	A	3.3

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