

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.3...0.5A



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	2
	aM (IEC)	Α	_ 1
	RK5 (UL)	Α	3
Phase failure detection	1110 (0.2)		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 mequency	min	Hz	0
	max	Hz	400
Operational current le	IIIdA	1 12	400
Operational current le			
	Operational current min	۸	0.2
	Operational current min	A	0.3
Tripping close	Operational current min Operational current max	A A	0.5
Tripping class	-		0.5 10A
Test Button	-		0.5 10A yes
Test Button Trip indicator	-		0.5 10A
Test Button	-		0.5 10A yes yes
Test Button Trip indicator	Operational current max		0.5 10A yes yes
Test Button Trip indicator	Operational current max type		0.5 10A yes yes screw and washer
Test Button Trip indicator	Operational current max  type screw	A	0.5 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max  type screw width		0.5 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max  type screw	A	0.5 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max  type screw width tool	mm	0.5 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 Nm	0.5 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	0.5 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	0.5 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	mm Nm Nm	0.5 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	0.5 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	0.5 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	0.5 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	0.5 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 AWG/kcmil max	mm Nm Ibin Ibin	0.5 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	0.5 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7



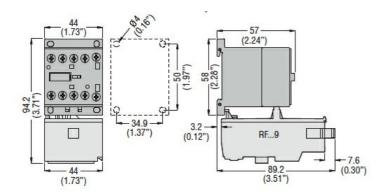
MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.3...0.5A

Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage  Auxiliary Rated operational voltage		V	690
Operating current AC15		V	090
Operating current AO13	24V	Α	3
	120V	A	3
	240V	A	1.5
	380V	A	0.95
	480V	A	0.75
	500V	A	0.72
	600V	A	0.6
Operating current DC13	0001	,,	0.0
oporating current 2010	125V	Α	0.11
	600V	A	0.22
IEC Conventional free air thermal current Ith	0001	A	10
Terminals		- , ,	10
· Ommuno			screw and
	Auxiliary circuit type		washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
Conductor section			1, 2, 3
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals			
Tighterming terque for terminale	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	lbin	0.74
	Auxiliary circuit max	Ibin	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			
<del></del>	normal		Vertical plan
	allowable		±30°
Eiving			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	0.5
	at 600V	Α	0.5
Dimensions [mm (in)]			

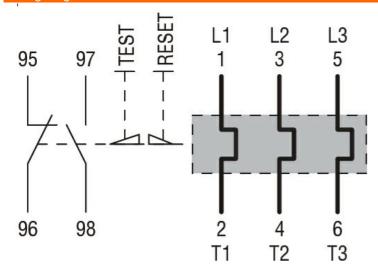


ENERGY AND AUTOMATION

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.3...0.5A



## 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