

Motor protection relay, phase failure/single-phase sensitive. Three-pole (three-phase), manual resetting. Direct mounting on BG06, BG09, BG12 mini-contactors, 0.9...1.5A



Product designation			11RF9
Product type designation			Motor protection
·· -			relay
General characteristics Number of poles		Nr.	3
Overvoltage category		INI.	
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			memai
Trottodion ruse	gG (IEC)	Α	4
	aM (IEC)	Α	2
	RK5 (UL)	Α	6
Phase failure detection	1 11 (0		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	0.9
	Operational current max	Α	1.5
T			
Tripping class			10A
Test Button			10A yes
Test Button			yes
Test Button Trip indicator	type		yes yes screw and
Test Button Trip indicator	type		yes yes screw and washer
Test Button Trip indicator	screw		yes yes screw and washer M4
Test Button Trip indicator	screw width	mm	yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	screw	mm	yes yes screw and washer M4
Test Button Trip indicator	screw width tool		yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	screw width tool min	Nm	yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	screw width tool min max	Nm Nm	yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Test Button Trip indicator Terminals	screw width tool min max min	Nm Nm Ibin	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	screw width tool min max	Nm Nm	yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Test Button Trip indicator Terminals	screw width tool min max min max	Nm Nm Ibin	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	screw width tool min max min	Nm Nm Ibin	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	screw width tool min max min max	Nm Nm Ibin	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	screw width tool min max min max AWG/kcmil max	Nm Nm Ibin Ibin	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	screw width tool min max min max	Nm Nm Ibin	yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7

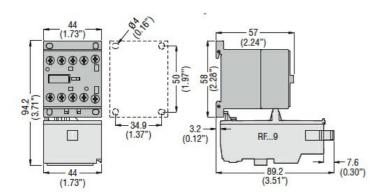


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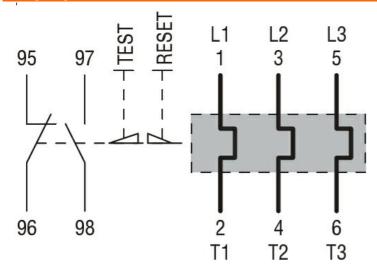
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	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
	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			
	min	°C	-20
	max	°C	55
Storage temperature			
	min	°C	-55
	max	°C	70
Compensation temperature		^ -	. –
	min	°C	-15 -5
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			M. C. L.
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BG06 BG09 BG12
Weight		g	116
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	1.5
	at 600V	Α	1.5
Dimensions			

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

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding