

MOTOR PROTECTION RELAY, PHASE FAILURE / SINGLE PHASE SENSITIVE. THREE POLE (THREE PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 9...15A



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	40
	aM (IEC)	Α	16
	RK5 (UL)	Α	45
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	9
Tripping class	Operational current max	Α	15
Tripping class Test Button			15 10A
Test Button			15 10A yes
Test Button Trip indicator			15 10A
Test Button	Operational current max		15 10A yes yes
Test Button Trip indicator			15 10A yes yes Screw and
Test Button Trip indicator	Operational current max type		15 10A yes yes Screw and washer
Test Button Trip indicator	Operational current max type screw	A	15 10A yes yes Screw and washer M4
Test Button Trip indicator	Operational current max type screw width		15 10A yes yes Screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw	A	15 10A yes yes Screw and washer M4
Test Button Trip indicator	Operational current max type screw width tool	mm	15 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	15 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	15 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 max min	mm Nm Nm Ibft	15 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	15 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 Ibft	15 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 Ibft	15 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 Ibft	15 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 AWG max	mm Nm Nm Ibft	15 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 Ibft	15 10A yes yes yes Screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7

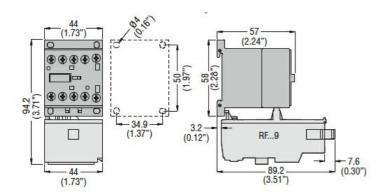


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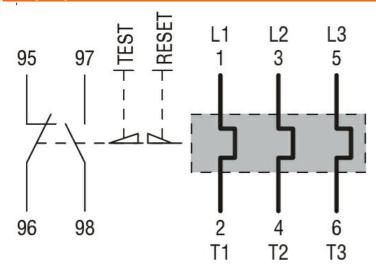
Rated insulation voltage Ui UL/CSA		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
Conventional free air thermal current Ith IEC/EN		Α	10
Terminals			
	type		Screw and
			washer
	screw		M3,5
	width	mm	8
	tool		Phillips 1
Conductor section			
	Flexible w/o lug max	mm²	2.5
	Flexible c/w lug max	mm²	2.5
Tightening torque for terminals			
	min	Nm	1
	max	Nm	1
	min	lbft	0.74
	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 feautures			
Operational position			
	Operating position normal		Vertical plan
	Operating position allowable		±30°
Weight		g	116
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	15
	at 600V	Α	15
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