

MOTOR PROTECTION RELAY, PHASE FAILURE / SINGLE PHASE SENSITIVE. THREE POLE (THREE PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 6...10A



Product designation			11RF9
Product type designation			Motor protection relay
General characteristics			
Number of poles		nr.	3
Overvoltage category			111
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			_
	gG (IEC)	Α	32
	aM (IEC)	Α	10
	RK5 (UL)	Α	30
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	6
	Operational current min Operational current max	A A	6 10
Tripping class	Operational current min Operational current max	A A	10
Tripping class Test Button	•		10 10A
Test Button	•		10 10A yes
Test Button Trip indicator	•		10 10A
Test Button	Operational current max		10 10A yes yes
Test Button Trip indicator	•		10 10A yes yes Screw and
Test Button Trip indicator	Operational current max		10 10A yes yes
Test Button Trip indicator	Operational current max type		10 10A yes yes Screw and washer M4
Test Button Trip indicator	Operational current max type screw width	A	10 10A yes yes Screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw	A	10 10A yes yes Screw and washer M4
Test Button Trip indicator	Operational current max type screw width tool	mm	10 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	10 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	10 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	10 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	10 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	10 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	Operational current max type screw width tool min max min	mm Nm Nm Ibft	10 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	10 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 max	mm Nm Nm Ibft	10 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	mm Nm Nm Ibft	10 10A yes yes Screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7

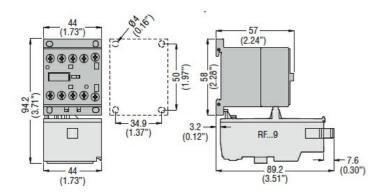


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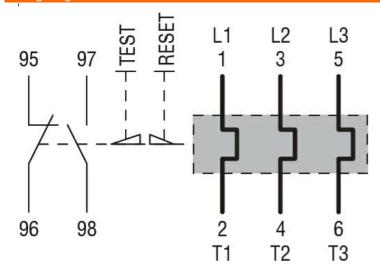
Rated insulation voltage Ui UL/CSA		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
Conventional free air thermal current Ith IEC/EN		Α	10
Terminals			
	type		Screw and
			washer
	screw		M3,5
	width	mm	8
0 1 1	tool		Phillips 1
Conductor section	E / .	2	0.5
	Flexible w/o lug max	mm²	2.5
Timb to ning a to assure for to making the	Flexible c/w lug max	mm²	2.5
Tightening torque for terminals			4
	min	Nm	1
	max	Nm	1
	min	Ibft	0.74
III /CCA and IFC/FN 60047 F 4 designation	max	Ibin	0.74 B600-P600
UL/CSA and IEC/EN 60947-5-1 designation Ambient conditions			B000-P000
Operating temperature	main	°C	20
	min	°C	-20 55
Storage temperature	max	C	ວວ
Storage temperature	nin	°C	-55
	min max	°C	-55 70
Componentian tomporature	max	C	10
Compensation temperature	nin	°C	-15
	min	°C	- 15 55
Max altitude	max	m	3000
Max autuude Mechanical feautures		111	3000
Operational position			
	Operating position normal		Vertical plan
	Operating position allowable		Vertical plan ±30°
Weight	Operating position allowable	<u> </u>	116
Weight UL technical data		g	110
ruil-load current (FLA) for three-phase AC motor	-1 4001/	۸	10
Full-load current (FLA) for three-phase AC motor	at 480V at 600V	A A	10 10

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