

MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 4.5...7.5A



Product designation			11RFN9
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	20
	aM (IEC)	Α	8
	RK5 (UL)	Α	25
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	4.5
	Operational current min Operational current max	A A	4.5 7.5
Tripping class	Operational current min Operational current max		
Tripping class Test Button			7.5
Test Button			7.5 10A Yes
Test Button Trip indicator			7.5 10A
Test Button	Operational current max		7.5 10A Yes yes
Test Button Trip indicator			7.5 10A Yes
Test Button Trip indicator	Operational current max		7.5 10A Yes yes
Test Button Trip indicator	Operational current max		7.5 10A Yes yes screw and washer
Test Button Trip indicator	Operational current max type screw	A	7.5 10A Yes yes screw and washer M4
Test Button Trip indicator	Operational current max type screw width	A	7.5 10A Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw width	A	7.5 10A Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw width tool	mm	7.5 10A Yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min	mm Nm	7.5 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	7.5 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	7.5 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7
Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min	mm Nm Nm Ibin	7.5 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7
Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min max min max	mm Nm Nm Ibin	7.5 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 min max	mm Nm Nm Ibin	7.5 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 min max	mm Nm Nm Ibin	7.5 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 Nm Ibin Ibin	7.5 10A Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 4.5...7.5A

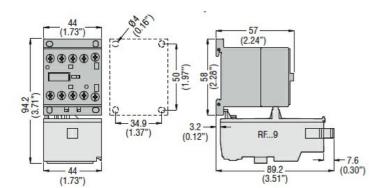
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	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	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			B600-P600
Ambient conditions			
Operating temperature		0.0	22
	min	°C	-20
01	max	°C	55
Storage temperature		0.0	
	min	°C	-55 -70
0	max	°C	70
Compensation temperature		20	
	min	°C	-15 -5
NA 100 - L	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position	•		\/autic=1 =1 -
	normal		Vertical plan
	allowable		±30°
Eiving			Direct mounting on BG06
Fixing			BG09 BG12
Weight		g	123
UL technical data		9	120
Full-load current (FLA) for three-phase AC motor			
. d.: load outlone (i Eri) for throo phago / to motor	at 480V	Α	7.5
	at 400V	A	7.5 7.5
	at 550 v		



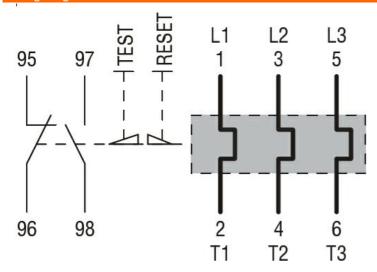


ENERGY AND AUTOMATION

MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 4.5...7.5A



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