



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.45...0.75A



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	2
	aM (IEC)	Α	1
	RK5 (UL)	Α	3
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	0.45
	Operational current min Operational current max	A A	0.45 0.75
Tripping class	Operational current min Operational current max	A A	0.75
Tripping class Test Button	-		0.75 10A
Test Button	-		0.75 10A yes
Test Button Trip indicator	-		0.75 10A
Test Button	Operational current max		0.75 10A yes yes
Test Button Trip indicator	-		0.75 10A yes
Test Button Trip indicator	Operational current max		0.75 10A yes yes screw and washer
Test Button Trip indicator	Operational current max type screw		0.75 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max type screw width	A	0.75 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw	A	0.75 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max type screw width tool	mm	0.75 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	0.75 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	0.75 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	mm Nm Nm Ibin	0.75 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm	0.75 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min max	mm Nm Nm Ibin	0.75 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	0.75 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	0.75 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	0.75 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 Ibin	0.75 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7





ENERGY AND AUTOMATION

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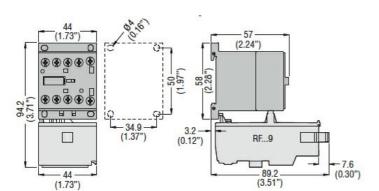
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
-	600V	Α	0.6
Operating current DC13	4.0.714		2.11
	125V	A	0.11
150 O	600V	A	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and washer
	Auviliant aircuit agratu		
	Auxiliary circuit screw Auxiliary circuit width	mm	M3,5 8
	Auxiliary circuit would Auxiliary circuit tool	111111	Phillips 1
Conductor section	Adamary circuit tool		1 1111111111111111111111111111111111111
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	, taxillary circuit i loxiloro o, ii lug illax		
Tightermig terque for terminate	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
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BG06
Weight		g	BG09 BG12 123
UL technical data		9	120
Full-load current (FLA) for three-phase AC motor		_	
i dii lodd ddifelit (i Ery foi tilloo pilase Ao filotof	at 480V	Α	0.75
	at 400V	A	0.75
	at 000 v	٠,٠	5.7.5



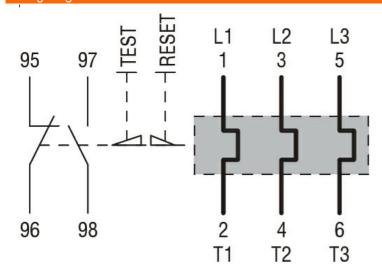


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Wiring diagrams



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