

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



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	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
	Operational current min Operational current max	A A	9 15
Tripping class	Operational current min Operational current max	A A	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
Test Button Trip indicator	Operational current max		15 10A yes yes screw and
Test Button Trip indicator	Operational current max type screw		15 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max type	A	15 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw width	A	15 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max type screw width	A	15 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	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	type screw width tool min max	mm Nm Nm	15 10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm Ibin	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	type screw width tool min max min	mm Nm Nm Ibin	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	mm Nm Nm Ibin	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 Ibin	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/kcmil max	mm Nm Nm Ibin Ibin	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 Ibin	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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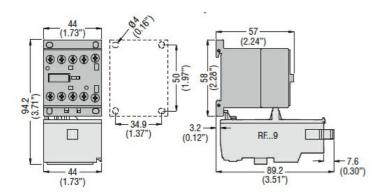
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	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 Dhilling 4
One I street of the	Auxiliary circuit tool		Phillips 1
Conductor section	Accelling the MED 11 C		0.5
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
Timb to min or to make the making also	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	A : !! i i i	Nima	4
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min Auxiliary circuit max	lbin Ibin	0.74 0.74
UL/CSA and IEC/EN 60947-5-1 designation	Auxiliary Circuit max	IDIII	B600-P600
Ambient conditions			D000-F 000
Operating temperature			
operating temperature	min	°C	-20
	max	°C	55
Storage temperature	max		
Ctorago tomporataro	min	°C	-55
	max	°C	70
Compensation temperature		<u>_</u>	
	min	°C	-15
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
			Direct mounting
Fixing			on BG06
			BG09 BG12
Weight		g	123
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	15
	at 600V	Α	15
Dimensions			



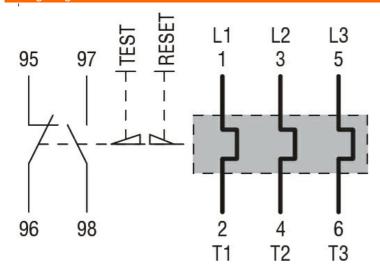


ENERGY AND AUTOMATION

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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

ETIM classification

ETIM 8.0

EC000106 -Thermal overload

relay