



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), AUTOMATIC RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.3...0.5A



Product designation			11RFNA9
Product type designation			Motor protection relay
General characteristics			
Number of poles		Nr.	3
Overvoltage category			Ш
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			Automatic
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	0.3
	Operational current max	Α	0.5
Tripping class			101
Tripping class			10A
Test Button			Yes
Test Button			Yes
Test Button Trip indicator	tuno		Yes
Test Button Trip indicator	type		Yes yes
Test Button Trip indicator	type screw		Yes yes screw and
Test Button Trip indicator	screw width	mm	Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	screw	mm	Yes yes screw and washer M4
Test Button Trip indicator	screw width	mm	Yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	screw width	Nm	Yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	screw width tool		Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Test Button Trip indicator Terminals	screw width tool min	Nm Nm Ibin	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	screw width tool min max	Nm Nm	Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Test Button Trip indicator Terminals	screw width tool min max min max	Nm Nm Ibin	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	screw width tool min max min	Nm Nm Ibin	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	screw width tool min max min max	Nm Nm Ibin	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	screw width tool min max min max AWG/kcmil max	Nm Nm Ibin Ibin	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	screw width tool min max min max AWG/kcmil max	Nm Nm Ibin Ibin	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	screw width tool min max min max AWG/kcmil max	Nm Nm Ibin Ibin	Yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7





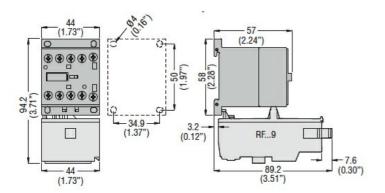
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Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15		•	
operating defrent 7.0 To	24V	Α	1.5
	120V	A	1.5
	240V	A	0.75
IEC Conventional free air thermal current Ith	2101	A	10
Terminals		- , ,	
Terrinae	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	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			C300-R300
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 BG09 BG12
Weight		а	123
Weight UL technical data		g	123
UL technical data		g	123
	at 480V		
UL technical data	at 480V at 600V	g A A	0.5 0.5

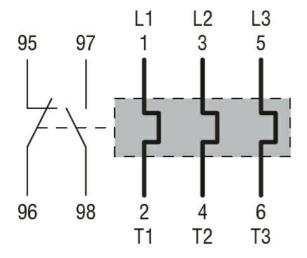




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Wiring diagrams



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