



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



Product designation			11RFNA9
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			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			
-1			
	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	A A	7.5
Tripping class Test Button	•		7.5 10A
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 yes screw and
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		7.5 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max  type screw	A	7.5 10A yes yes screw and washer M4
Test Button Trip indicator	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	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
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm Ibin	7.5 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	mm Nm 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 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	mm Nm Nm Ibin	7.5 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 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 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
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





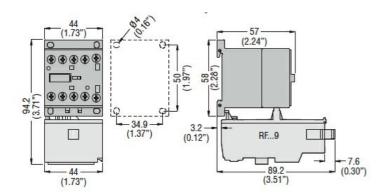
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Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
operating outline AO TO	24V	Α	1.5
	120V	A	1.5
	240V	Α	0.75
IEC Conventional free air thermal current Ith		A	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	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			C600-R300
Ambient conditions			
Operating temperature			
	min	°C	-20
	max	°C	55
Storage temperature			
	min	°C	-55 -70
	max	°C	70
Compensation temperature		0.0	4.5
	min	°C	-15 -5
Many aliferate	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position	normal		\/ortical plan
	normal allowable		Vertical plan ±30°
	allowable		Direct mounting
Fixing			on BG06 BG09 BG12
Weight		g	123
UL technical data			
Full-load current (FLA) for three-phase AC motor			
Full-load current (FLA) for three-phase AC motor	at 480V	Α	7.5
Full-load current (FLA) for three-phase AC motor	at 480V at 600V	A A	7.5 7.5

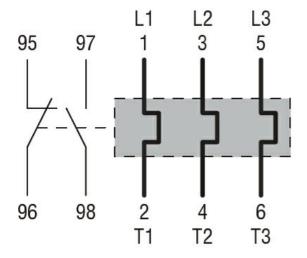




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## Wiring diagrams



## 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