**ENERGY AND AUTOMATION** 

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



Product designation			11RFA9
Product type designation			Motor protection relay
General characteristics			Totay
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			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			10A
Test Button			yes
Trip indicator			yes
Terminals			
	type		screw and
	,,,,,		washer
	screw		M4
	width	mm	9.8
	tool		Phillips 2
Tightening torque for terminals			
	min	Nm	2.3
	max ·	Nm	2.3
	min	lbin	1.7
Out I store of a	max	Ibin	1.7
Conductor section	A1A1O /		40
Associtions, gives it also produced to	AWG/kcmil max		10
Auxiliary circuit characteristics			
Auxiliary contacts	NO	N.1.	4
	NO	Nr. Nr.	1
	NC	V i∞	1



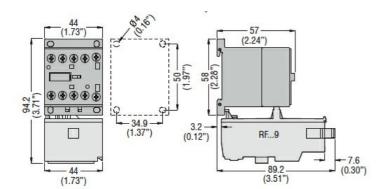
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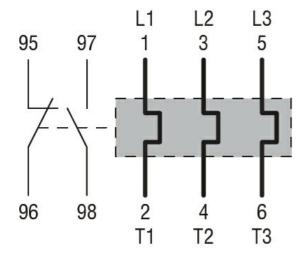
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw 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	Ibin	0.74
LIL /OOA and IEO/EN COOAZ E A designation	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation  Ambient conditions			C300-R300
Operating temperature			
Operating temperature	min	°C	-20
	max	°C	55
Storage temperature	max		
Clorago temperaturo			
	min	°C	-55
	min max	°C	-55 70
Compensation temperature	min max	°C	-55 70
Compensation temperature		°C	70
Compensation temperature	max		
Compensation temperature  Max altitude	max min	°C	70 -15
	max min	°C °C	-15 55
Max altitude	max min	°C °C	-15 55
Max altitude  Mechanical features	max min	°C °C	-15 55
Max altitude  Mechanical features	max min max	°C °C	-15 55 3000
Max altitude  Mechanical features	max min max normal	°C °C	-15 55 3000 Vertical plan ±30° Direct mounting on BG06
Max altitude  Mechanical features  Operating position  Fixing	max min max normal	°C °C °C m	-15 55 3000 Vertical plan ±30° Direct mounting on BG06 BG09 BG12
Max altitude  Mechanical features Operating position  Fixing  Weight	max min max normal	°C °C	-15 55 3000 Vertical plan ±30° Direct mounting on BG06
Max altitude  Mechanical features Operating position  Fixing  Weight UL technical data	max min max normal	°C °C °C m	-15 55 3000 Vertical plan ±30° Direct mounting on BG06 BG09 BG12
Max altitude  Mechanical features  Operating position  Fixing  Weight	max min max normal	°C °C °C m	-15 55 3000 Vertical plan ±30° Direct mounting on BG06 BG09 BG12
Max altitude  Mechanical features Operating position  Fixing  Weight UL technical data	max min max  normal allowable	°C °C m	-15 55 3000 Vertical plan ±30° Direct mounting on BG06 BG09 BG12

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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