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, 0.09...0.15A



Product designation			11RFA9
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	aM (IEC)	Α	0.25
Phase failure detection	aivi (iEO)		yes
Reset mode			Automatic
Power circuit characteristics			Automatic
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Rated operational voltage		V	690
Operational frequency		V	090
Operational frequency	min	Hz	0
	max	Hz	400
Operational current le	IIIax	1 12	400
Operational current le	Operational current min	Α	0.09
	Operational current max	A	0.09
Tripping class	Operational current max		10A
Test Button			
Trip indicator			yes
Terminals			yes
Terminals			oorow and
	type		screw and washer
	screw		M4
	width	mm	9.8
	tool	111111	Phillips 2
Tightening torque for terminals	tool		1 11111p3 Z
righterining torque for terminals	min	Nm	2.3
	max	Nm	2.3
	min	lbin	1.7
	max	lbin	1.7
Conductor section	max	10111	
Conductor Cockers	AWG/kcmil max		10
Auxiliary circuit characteristics	7 TT O/ROHIII HIGA		. 5
Auxiliary contacts		_	
	NO	Nr.	1
	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN	110	V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
		1. V	





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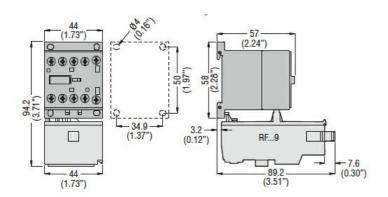
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Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and
	, , ,		washer
	Auxiliary circuit screw		M3,5
	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
	Auxiliary circuit max	Ibin	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			
Mechanical features			
Mechanical features	normal		Vertical plan
Mechanical features	normal allowable		Vertical plan ±30°
Mechanical features Operating position			±30° Direct mounting
Mechanical features Operating position			±30° Direct mounting on BG06
Mechanical features Operating position Fixing			±30° Direct mounting on BG06 BG09 BG12
Mechanical features Operating position Fixing Weight		g	±30° Direct mounting on BG06
Mechanical features Operating position Fixing Weight UL technical data		g	±30° Direct mounting on BG06 BG09 BG12
Mechanical features Operating position Fixing Weight UL technical data	allowable		±30° Direct mounting on BG06 BG09 BG12
Mechanical features Operating position Fixing Weight UL technical data Full-load current (FLA) for three-phase AC motor		g A A	±30° Direct mounting on BG06 BG09 BG12

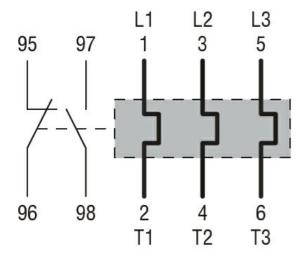


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Wiring diagrams



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