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, 0.2...0.33A



Product designation			11RFA9
Product type designation			Motor protection
General characteristics			relay
Number of poles		Nr.	3
Overvoltage category		141.	III
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			memai
1 Totection ruse	gG (IEC)	Α	1
	aM (IEC)	A	0.5
	RK5 (UL)	A	1
Phase failure detection	Titto (OL)		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	0.2
	Operational current max	A	0.2
Tripping class	Operational current max		10A
Tripping class Test Button			
			yes
Trip indicator Terminals			yes
Terminals			
	type		screw and washer
	SCrow		M4
	screw width	mm	9.8
	tool	mm	Phillips 2
Tightening torque for terminals	1001		i illiips z
rightening torque for tellilliais	min	Nm	2.3
	min	Nm	2.3
	max	Ibin	2.3 1.7
	min max	Ibin	1.7
Conductor section	illax	וווטו	1.1
Conductor Section	AWG/kcmil max		10
Auxiliary circuit characteristics	AVVG/KCIIII IIIAX		10
Auxiliary contacts Auxiliary contacts			
Auxiliary curtacts	NO	Nr.	1
	NC NC	Nr.	1 1
	NC	INI.	1





ENERGY AND AUTOMATION

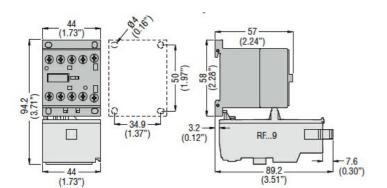
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Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
IEC Conventional free air thermal current 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		<u> </u>	
3 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	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			
1 · · · • • · · · · · · · · · · · · · ·	normal		Vertical plan
	allowable		±30°
	30 40.10		Direct mounting
Fixing			on BG06
			BG09 BG12
Weight		g	116
UL technical data			
Full load ourrent /FL A) for three phase AC motor			
Full-load current (FLA) for three-phase AC motor			
rull-load current (FLA) for three-phase AC motor	at 480V	Α	0.33
ruil-load current (FLA) for three-phase AC motor	at 480V at 600V	A A	0.33 0.33

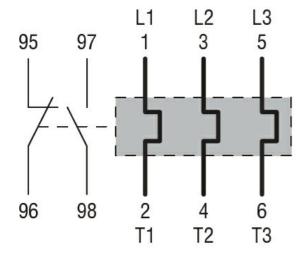


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Wiring diagrams



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