**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, 2...3.3A



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			_
	gG (IEC)	Α	10
	aM (IEC)	Α	4
	RK5 (UL)	Α	10
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	2
	Operational current min Operational current max	A A	2 3.3
Tripping class	Operational current min Operational current max		2 3.3 10A
Tripping class Test Button	-		3.3 10A
Test Button	-		3.3 10A yes
Test Button Trip indicator	-		3.3 10A
Test Button	Operational current max		3.3 10A yes yes
Test Button Trip indicator	-		3.3 10A yes
Test Button Trip indicator	Operational current max		3.3 10A yes yes screw and
Test Button Trip indicator	Operational current max type		3.3 10A yes yes screw and washer
Test Button Trip indicator	Operational current max  type screw	A	3.3 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max  type screw width	A	3.3 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max  type screw width	A	3.3 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max  type screw width tool	mm	3.3 10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min	mm Nm	3.3 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	3.3 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm Ibin	3.3 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 min	mm Nm Nm Ibin	3.3 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 min max min max	mm Nm Nm Ibin	3.3 10A yes 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 min max	mm Nm Nm Ibin	3.3 10A yes 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	3.3 10A yes 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 AWG/kcmil max	mm Nm Nm Ibin Ibin	3.3 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7



MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE electric (THREE-PHASE), AUTOMATIC RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 2...3.3A

	`	,,	_
ENERGY AND ALITOMATION			

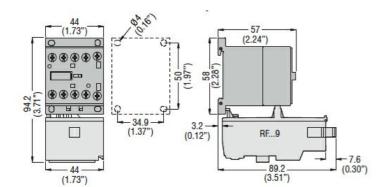
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5

Auxiliary Nated Insulation Voltage of IEC/EN		V	090
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
3	24V	Α	1.5
	120V	A	1.5
	240V	Α	0.75
IEC Conventional free air thermal current Ith	2101	A	10
Terminals			10
Terrilliais			corow and
	Auxiliary circuit type		screw and washer
	Auxiliany circuit corow		M3,5
	Auxiliary circuit screw	<b></b>	
	Auxiliary circuit width	mm	8 Dhilling 4
	Auxiliary circuit tool		Phillips 1
Conductor section		2	
	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			
o importation to importation	min	°C	-15
	max	°C	55
Max altitude	max	m	3000
Mechanical features		111	3000
Operating position			
Operating position	normal		\/artical plan
	normal		Vertical plan ±30°
	allowable		
Fiving			Direct mounting
Fixing			on BG06
Mojaht			BG09 BG12
Weight		g	116
UL technical data			
Full-load current (FLA) for three-phase AC motor		_	
	at 480V	Α	3.3
	at 600V	Α	3.3
Dimensions			

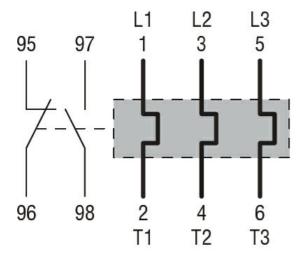
## Dimensions

**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, 2...3.3A



## 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