

MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.6...1A



Product type designation	Product designation			11RFN9
Number of poles Nr. 3	Product type designation			
Deveroltage category	General characteristics			Totay
Deveroltage category			Nr.	3
Pollution degree				III
Protection fuse				3
Thermal Protection fuse GR (IEC) A 4 4 4 4 4 4 4 4 4				IP20
Protection fuse				Thermal
A				
A		gG (IEC)	Α	4
Phase failure detection			Α	2
Phase failure detection yes Reset mode Manual Power circuit characteristics Hannual 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 0 Operational current min A 0.6 0 Operational current max A 1 1 Tripping class 10A Yes 1 Test Button Yes 1 1 Terminals type screw and washer screw and washer Screw M4 width mm 9.8 Tightening torque for terminals min Nm 2.3 max Nm 2.3 min 1.7 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1			Α	3
Power circuit characteristics	Phase failure detection	, , ,		yes
Rated insulation voltage Ui IEC/EN	Reset mode			Manual
Rated impulse withstand voltage Uimp Rated operational voltage V 690	Power circuit characteristics			
Rated operational voltage	Rated insulation voltage Ui IEC/EN		V	690
Departional frequency	Rated impulse withstand voltage Uimp		kV	8
Departional frequency	Rated operational voltage		V	690
max Hz 400 Operational current le Operational current min Operational current min Operational current max A 0.6 Tripping class 10A 10A Test Button Yes 10A Trip indicator yes 10 Terminals type screw and washer washer screw M4 M4 width mm 9.8 tool Phillips 2 Tightening torque for terminals min Nm 2.3 max Nm 2.3 min lbin 1.7 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics NO Nr. 1				
Operational current le Operational current min Operational current min Operational current max A 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	, ,	min	Hz	0
Operational current min Operational current max A 1 Tripping class 10A Test Button Yes Trip indicator yes Terminals type screw and washer screw width mm width mm yidth tool 9.8 Phillips 2 Tightening torque for terminals min Nm 2.3 max Nm 1.17 max lbin 1.7 max lbin 1.7 max lbin 1.7 max Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics AWG/kcmil max 10 Auxiliary contacts No Nr. 1		max	Hz	400
Operational current min Operational current max A 1 Tripping class 10A Test Button Yes Trip indicator yes Terminals type screw and washer screw width mm width mm yidth tool 9.8 Phillips 2 Tightening torque for terminals min Nm 2.3 max Nm 1.17 max lbin 1.7 max lbin 1.7 max lbin 1.7 max Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics AWG/kcmil max 10 Auxiliary contacts No Nr. 1	Operational current le			
Operational current max	·	Operational current min	Α	0.6
Tripping class		•	Α	
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 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts	Tripping class	·		10A
Terminals type screw and washer screw width mm 9.8 tool Phillips 2 Tightening torque for terminals min Nm 2.3 max Nm 2.3 min lbin 1.7 max lbin 1.7 conductor section AwG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1				Yes
Terminals type screw and washer screw width mm 9.8 tool Phillips 2 Tightening torque for terminals min Nm 2.3 max Nm 2.3 min lbin 1.7 max lbin 1.7 conductor section AwG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1	Trip indicator			yes
Tightening torque for terminals Tightening torque for terminals min Nm 2.3 max Nm 2.3 min lbin 1.7 max lbin 1.7 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1				,
Screw width mm 9.8 tool Phillips 2 Tightening torque for terminals min Nm 2.3 max Nm 2.3 min Ibin 1.7 max Ibin 1.7 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1		4		screw and
width toolmm9.8 Phillips 2Tightening torque for terminalsmin Nm2.3 Max Nm2.3 Max Nm2.3 Max Nm2.3 Max Nm1.7 Max Nm1.7 Max NmConductor sectionAWG/kcmil max10Auxiliary circuit characteristicsAuxiliary contacts		туре		washer
Tightening torque for terminals min Nm 2.3 max Nm 2.3 min Ibin 1.7 max Ibin 1.7 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1		screw		M4
Tightening torque for terminals min Nm 2.3 max Nm 2.3 min Ibin 1.7 max Ibin 1.7 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1		width	mm	9.8
min Nm 2.3 Nm 2.3 Nm 2.3 Nm Nm Nm 2.3 Nm Nm Nm Nm Nm Nm Nm N		tool		Phillips 2
max Nm 2.3 min Ibin 1.7 max Ibin 1.7 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1	Tightening torque for terminals			
min lbin 1.7 max lbin 1.7 Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1		min	Nm	2.3
Conductor section AWG/kcmil max 1bin 1.7 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1		max	Nm	2.3
Conductor section AWG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1		min	lbin	1.7
AwG/kcmil max 10 Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1		max	lbin	1.7
Auxiliary circuit characteristics Auxiliary contacts NO Nr. 1	Conductor section			
Auxiliary contacts NO Nr. 1		AWG/kcmil max		10
NO Nr. 1	Auxiliary circuit characteristics			
	Auxiliary contacts			
NC Nr. 1		NO	Nr.	1
		NC	Nr.	1



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.6...1A

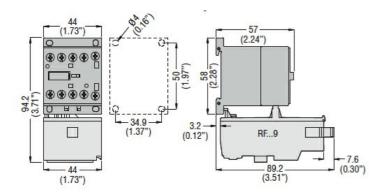
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
150.0	600V	Α	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and
			washer
	Auxiliary circuit screw Auxiliary circuit width	mm	M3,5 8
		mm	_
Conductor section	Auxiliary circuit tool		Phillips 1
Conductor Section	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible world max Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	Advillary circuit rexible 6/W rug max	111111	2.0
rigiteiling torque for terminals	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit max	lbin	0.74
	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation	remaily enough max		B600-P600
Ambient conditions			2000 1 000
Operating temperature			
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	min	°C	-20
	max	°C	55
Storage temperature			
ŭ i	min	°C	-55
	max	°C	70
Compensation temperature			
·	min	°C	-15
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BG06
			BG09 BG12
Weight		g	123
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	1
	at 600V	Α	1
Dimensions			



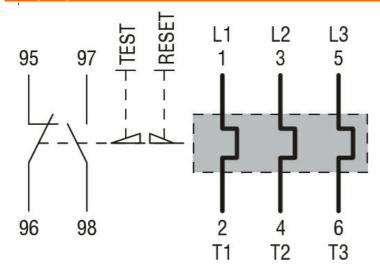


ENERGY AND AUTOMATION

MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.6...1A



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