

MOTOR PROTECTION RELAY, PHASE FAILURE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 1.1...1.6A



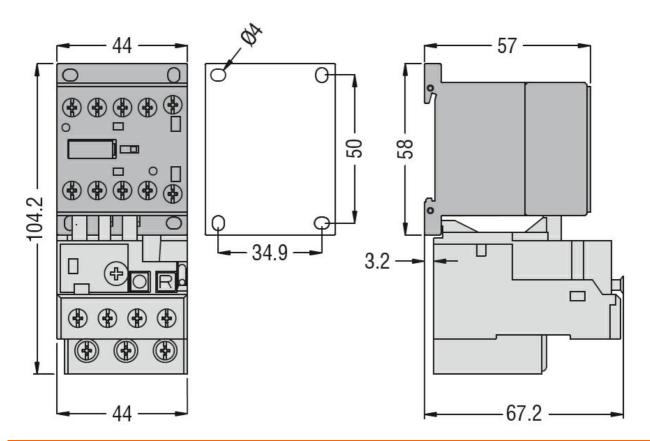
Product designation			RF12
Product type designation			Motor protection relay
General characteristics			·
Number of poles		Nr.	3
Overvoltage category			III
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	4
	aM (IEC)	Α	2
Phase failure detection			yes
Reset mode			Manual or
Neset mode			automatic
Power circuit characteristics			
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated operational voltage		V	690
Operational frequency			
	min	Hz	0
	max	Hz	400
Operational current le			
	Operational current min	Α	1.1
	Operational current min Operational current max	A A	1.1 1.6
Tripping class	•		
Tripping class Test Button	•		1.6
	•		1.6 10A
Test Button	•		1.6 10A Yes
Test Button Trip indicator	Operational current max		1.6 10A Yes
Test Button Trip indicator	•		1.6 10A Yes Yes
Test Button Trip indicator	Operational current max		1.6 10A Yes Yes
Test Button Trip indicator	Operational current max type		1.6 10A Yes Yes screw and washer
Test Button Trip indicator	Operational current max type screw	A	1.6 10A Yes Yes Screw and washer M4
Test Button Trip indicator	Operational current max type screw width	A	1.6 10A Yes Yes Screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max type screw width	A	1.6 10A Yes Yes Screw and washer M4 9.8
Test Button Trip indicator Terminals	type screw width tool	mm	1.6 10A Yes Yes Screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min	mm Nm	1.6 10A Yes Yes Screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max	mm Nm Nm	1.6 10A Yes Yes Yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm Ibin	1.6 10A Yes Yes Screw and washer M4 9.8 Phillips 2 1.4 2.3 1
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min max Flexible w/o lug max	mm Nm Nm Ibin	1.6 10A Yes Yes Screw and washer M4 9.8 Phillips 2 1.4 2.3 1
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min max Flexible w/o lug max Flexible c/w lug max	mm Nm Nm Ibin Ibin	1.6 10A Yes Yes Yes screw and washer M4 9.8 Phillips 2 1.4 2.3 1 1.7
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section	type screw width tool min max min max Flexible w/o lug max	mm Nm Nm Ibin Ibin mm²	1.6 10A Yes Yes Yes screw and washer M4 9.8 Phillips 2 1.4 2.3 1 1.7
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min max Flexible w/o lug max Flexible c/w lug max	mm Nm Ibin Ibin mm² mm²	1.6 10A Yes Yes Yes screw and washer M4 9.8 Phillips 2 1.4 2.3 1 1.7 6 10 10
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section	type screw width tool min max min max Flexible w/o lug max Flexible c/w lug max	mm Nm Nm Ibin Ibin mm²	1.6 10A Yes Yes Yes screw and washer M4 9.8 Phillips 2 1.4 2.3 1 1.7



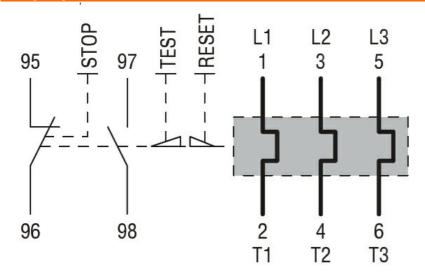
MOTOR PROTECTION RELAY, PHASE FAILURE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 1.1...1.6A

	max	W	2.6
Auxiliary circuit characteristics			
Auxiliary contacts			
	NO	Nr.	1
	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
IEC Conventional free air thermal current Ith		Α	5
Terminals			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		M3.5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 2
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 max	Nm	1
·	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			A600-Q600
Ambient conditions			
Operating temperature		0.0	00
	min	°C	-20
Otana and tanana and ma	max	°C	55
Storage temperature		°0	FF
	min	°C	-55 70
Componentian tomporature	max	C	70
Compensation temperature	min	°C	-15
	max	°C	-15 55
Max altitude	IIIdA	 	3000
Mechanical features		111	
Operating position		_	
2 F 2 . 3 19 F 2 2 10	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BG06
			BG09 BG12
Weight		g	BG09 BG12 115

MOTOR PROTECTION RELAY, PHASE FAILURE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 1.1...1.6A



Wiring diagrams



Certifications and compliance

Compliance

IEC/EN 60947-1

IEC/EN 60947-4-1

Certifications

CCC

cULus

ETIM classification

ETIM 8.0

EC000106 -Thermal overload relay