RF120040

MOTOR PROTECTION RELAY, PHASE FAILURE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.25...0.4A

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)	A	2
	aM (IEC)	A	1
Phase failure detection			yes
Reset mode			Manual or 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 Ie			
	Operational current min	A	0.25
	Operational current max	A	0.4
Tripping class			10A
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	1.4
	max	Nm	2.3
	min	lbin	1
	max	lbin	1.7
Conductor section			
	Flexible w/o lug max	mm²	6
	Flexible c/w lug max	mm²	10
	AWG/kcmil max		10
Power dissipation per pole			
	min	W	0.7

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	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		A	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	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			A600-Q600
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			
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BG06... BG09... BG12…
Weight		g	115
Dimensions			

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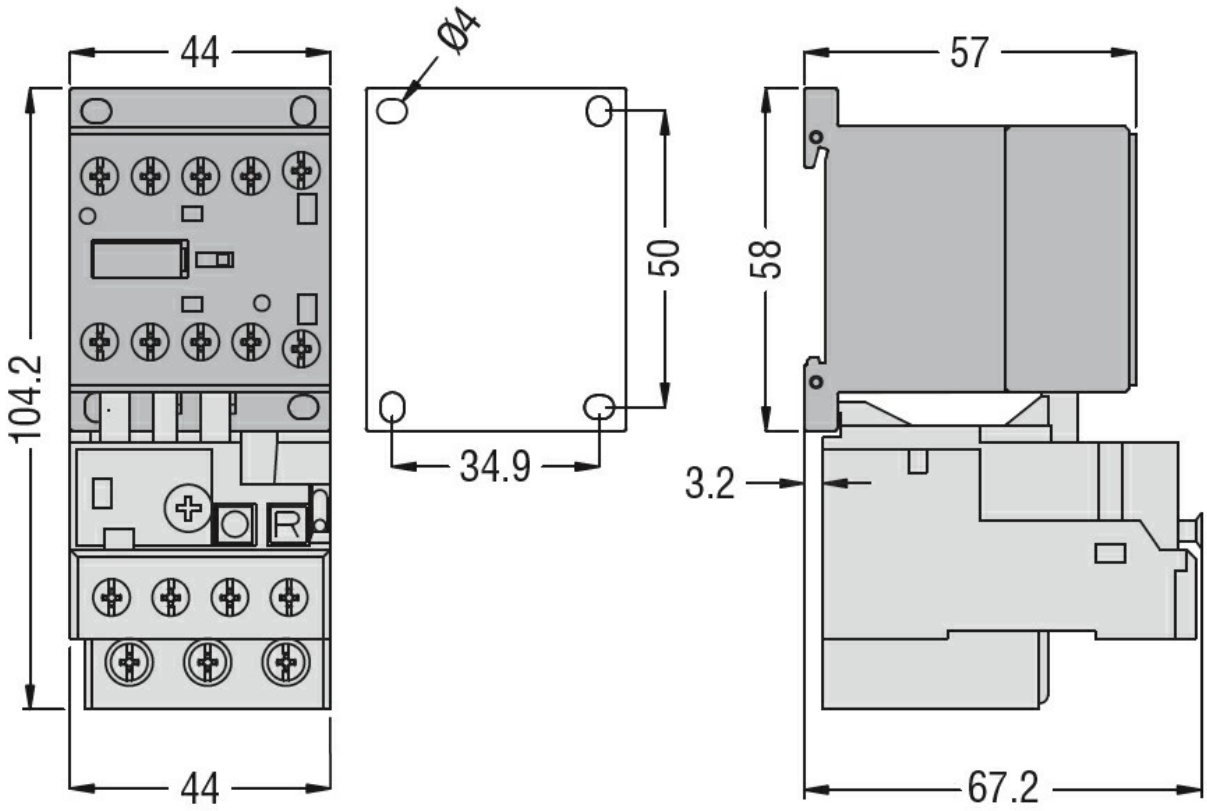
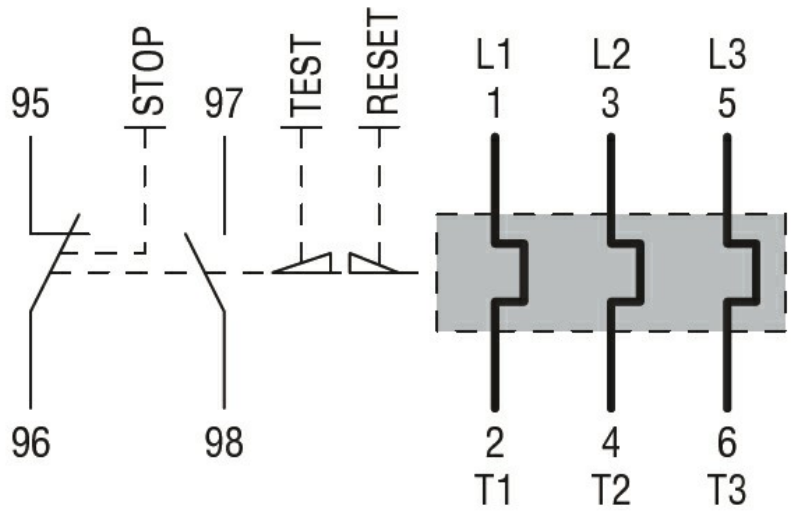


Wiring diagrams



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

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