



Product designation	RF12		
Product type designation	Motor protection relay		
<b>General characteristics</b>			
Number of poles	Nr.	3	
Overvoltage category	III		
Pollution degree	3		
Frontal IP degree	IP20		
Type of release	Thermal		
Protection fuse	aM (IEC)	A	0.25
Phase failure detection	yes		
Reset mode	Manual or automatic		
<b>Power circuit characteristics</b>			
Rated insulation voltage $U_i$ IEC/EN	V	690	
Rated impulse withstand voltage $U_{imp}$	kV	6	
Rated operational voltage	V	690	
Operational frequency	min	Hz	0
	max	Hz	400
Operational current $I_e$	Operational current min	A	0.1
	Operational current max	A	0.16
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	mm <sup>2</sup>	6
	Flexible c/w lug max	mm <sup>2</sup>	10
	AWG/kcmil max	10	
Power dissipation per pole	min	W	0.7
	max	W	2.6

### Auxiliary circuit characteristics

#### Auxiliary contacts

	NO	Nr.	1
	NC	Nr.	1
Auxiliary Rated insulation voltage $U_i$ IEC/EN		V	690
IEC Conventional free air thermal current $I_{th}$		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	mm <sup>2</sup>	2.5
	Auxiliary circuit Flexible c/w lug max	mm <sup>2</sup>	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
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### 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
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### Mechanical features

#### Operating position

	normal allowable		Vertical plan ±30°
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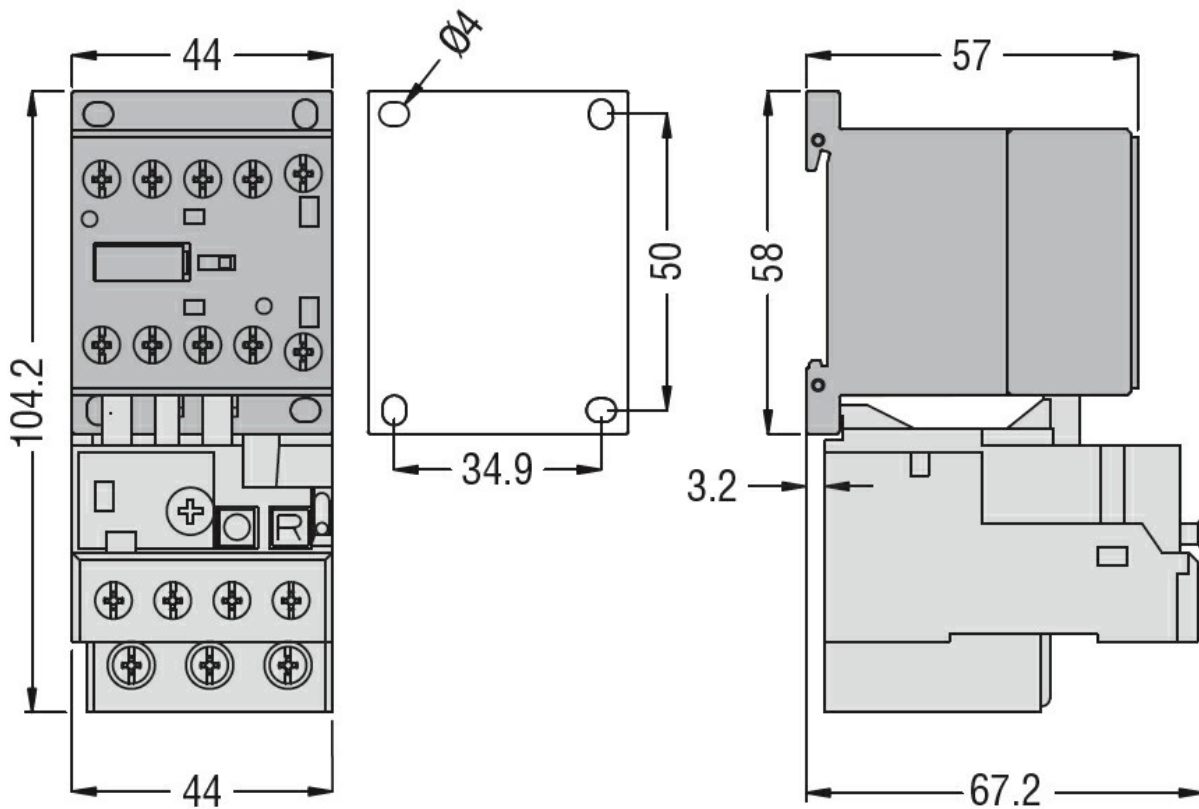
#### Fixing

			Direct mounting on BG06... BG09... BG12...
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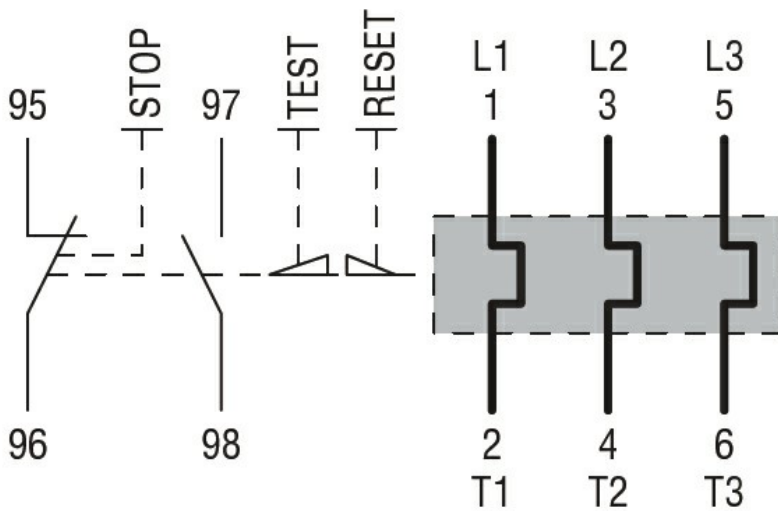
#### Weight

		g	115
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### Dimensions



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