



Product designation	11RF9
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	aM (IEC)	A 0.25
Phase failure detection		yes
Reset mode		Manual

### Power circuit characteristics

Rated insulation voltage $U_i$ IEC/EN	V	690
Rated impulse withstand voltage $U_{imp}$	kV	8
Rated operational voltage	V	690
Operational frequency	min	Hz 0
	max	Hz 400

Operational current $I_e$	Operational current min	A	0.09
	Operational current max	A	0.15

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	2.3
	max	Nm	2.3
	min	Ibin	1.7
	max	Ibin	1.7

Conductor section	AWG/kcmil max	10
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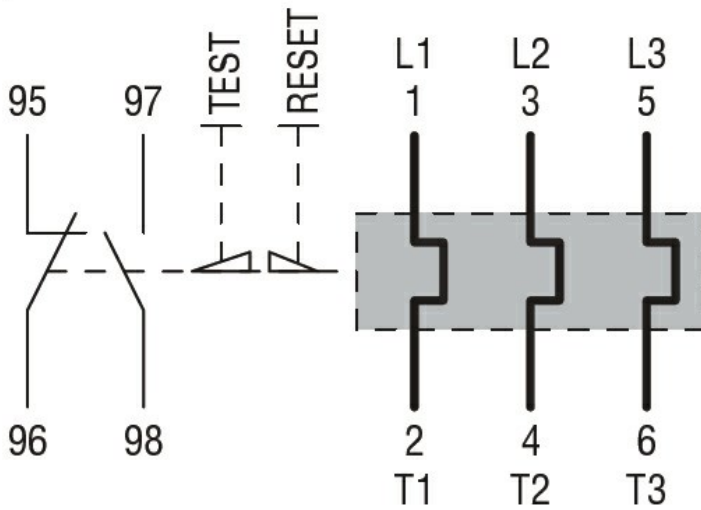
### Auxiliary circuit characteristics

Auxiliary contacts	NO	Nr.	1
	NC	Nr.	1
Auxiliary Rated insulation voltage $U_i$ IEC/EN	V	690	
Auxiliary Rated impulse withstand voltage $U_{imp}$	kV	6	

Auxiliary Rated operational voltage	V	690
Operating current AC15	24V 120V 240V 380V 480V 500V 600V	A 3 3 1.5 0.95 0.75 0.72 0.6
Operating current DC13	125V 600V	A 0.11 0.22
IEC Conventional free air thermal current I <sub>th</sub>	A	10
Terminals	Auxiliary circuit type Auxiliary circuit screw Auxiliary circuit width Auxiliary circuit tool	screw and washer M3,5 8 mm Phillips 1
Conductor section	Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max	mm <sup>2</sup> 2.5 mm <sup>2</sup> 2.5
Tightening torque for terminals	Auxiliary circuit min Auxiliary circuit max Auxiliary circuit min Auxiliary circuit max	Nm 1 Nm 1 lbin 0.74 lbin 0.74
UL/CSA and IEC/EN 60947-5-1 designation		B600-P600
<b>Ambient conditions</b>		
Operating temperature	min max	°C -20 °C 55
Storage temperature	min max	°C -55 °C 70
Compensation temperature	min max	°C -15 °C 55
Max altitude	m	3000
<b>Mechanical features</b>		
Operating position	normal allowable	Vertical plan ±30°
Fixing		Direct mounting on BG06... BG09... BG12...
Weight	g	116
<b>UL technical data</b>		
Full-load current (FLA) for three-phase AC motor	at 480V at 600V	A 0.15 A 0.15
<b>Dimensions</b>		



**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