



Product designation	11RFN9
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 6
	aM (IEC)	A 4
	RK5 (UL)	A 10
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 1.4
	Operational current max	A 2.3
Tripping class		10A
Test Button		Yes
Trip indicator		yes

Terminals			
	type		screw and washer
	screw		M4
	width	mm	9.8
	tool		Phillips 2

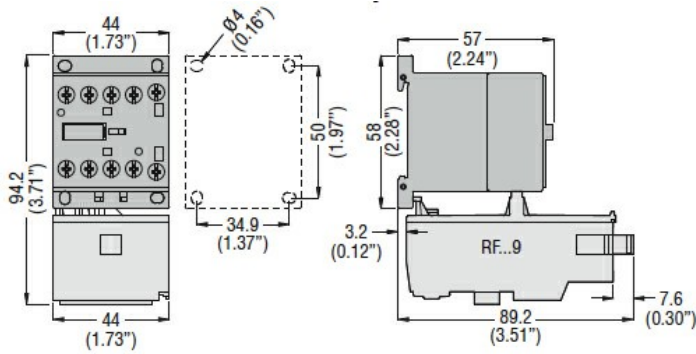
Tightening torque for terminals			
	min	Nm	2.3
	max	Nm	2.3
	min	lbin	1.7
	max	lbin	1.7

Conductor section		
	AWG/kcmil max	10

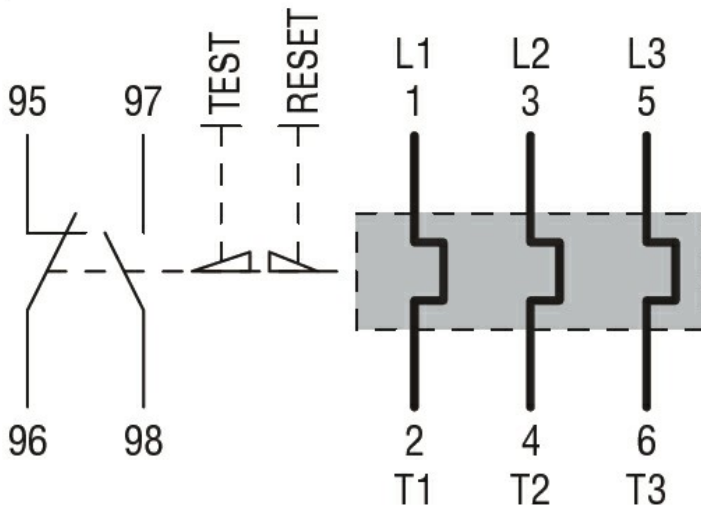
### Auxiliary circuit characteristics

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	A 3
	120V	A 3
	240V	A 1.5
	380V	A 0.95
	480V	A 0.75
	500V	A 0.72
	600V	A 0.6
Operating current DC13		
	125V	A 0.11
	600V	A 0.22
IEC Conventional free air thermal current $I_{th}$	A	10
Terminals		
	Auxiliary circuit type	screw and washer
	Auxiliary circuit screw	M3,5
	Auxiliary circuit width	mm 8
	Auxiliary circuit tool	Phillips 1
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 min	Nm 1
	Auxiliary circuit max	Nm 1
	Auxiliary circuit min	lbin 0.74
	Auxiliary circuit max	lbin 0.74
UL/CSA and IEC/EN 60947-5-1 designation		B600-P600
<b>Ambient conditions</b>		
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
<b>Mechanical features</b>		
Operating position	normal allowable	Vertical plan ±30°
Fixing		Direct mounting on BG06... BG09... BG12...
Weight	g	123
<b>UL technical data</b>		
Full-load current (FLA) for three-phase AC motor		
	at 480V	A 2.3
	at 600V	A 2.3
<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