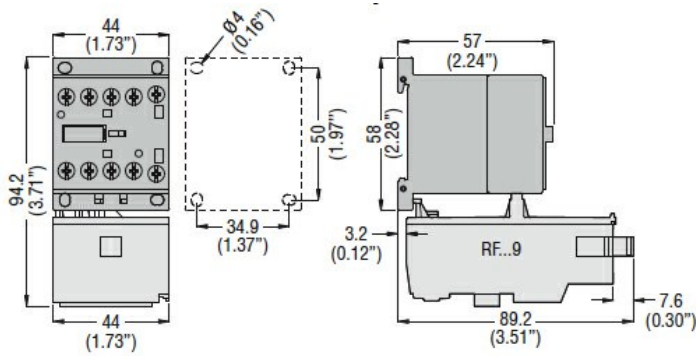


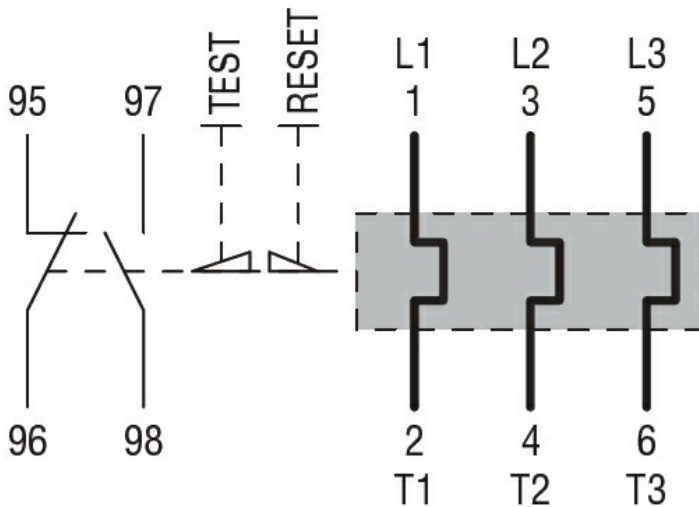


Product designation	11RF9		
Product type designation	Motor protection relay		
<b>General characteristics</b>			
Number of poles	nr.	3	
Overvoltage category	III		
Pollution degree	3		
Frontal IP degree	IP20		
Type of release	Thermal		
Protection fuse			
	gG (IEC)	A	6
	aM (IEC)	A	4
	RK5 (UL)	A	10
Phase failure detection	yes		
Reset mode	manual		
<b>Power circuit characteristics</b>			
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	
<b>Auxiliary circuit characteristics</b>			
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°
Weight	g	116
<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