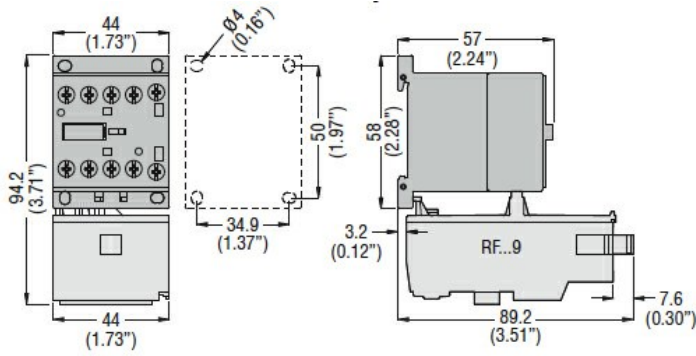


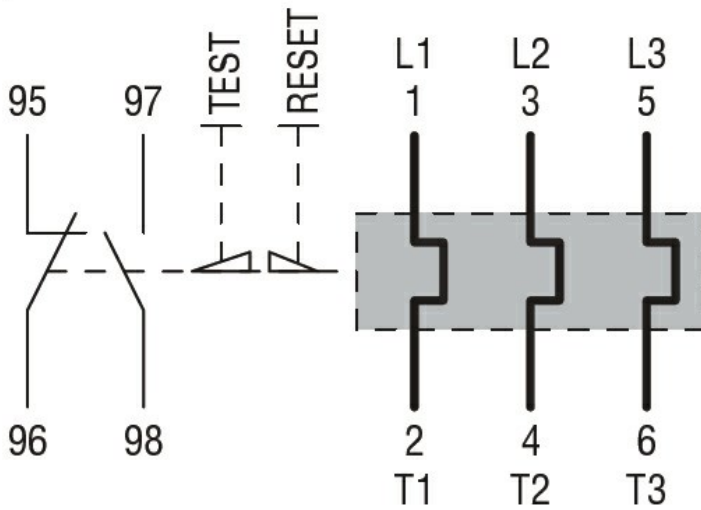


Product designation				11RF9
Product type designation				Motor protection relay
<b>General characteristics</b>				
Number of poles	nr.			3
Overvoltage category				III
Pollution degree				3
Frontal IP degree				IP20
Type of release				Thermal
Protection fuse				
		gG (IEC)	A	16
		aM (IEC)	A	6
		RK5 (UL)	A	15
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	3
		Operational current max	A	5
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	lbft	1.7
		max	lbft	1.7
Conductor section				
		AWG max	10	
<b>Auxiliary circuit characteristics</b>				
Auxiliary contacts				
		NO	nr.	1
		NC	nr.	1

Rated insulation voltage $U_i$ UL/CSA	V	690
Rated impulse withstand voltage $U_{imp}$	kV	6
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
Conventional free air thermal current $I_{th}$ IEC/EN	A	10
Terminals		
	type	Screw and washer
	screw	M3,5
	width	mm 8
	tool	Phillips 1
Conductor section		
	Flexible w/o lug max	mm <sup>2</sup> 2.5
	Flexible c/w lug max	mm <sup>2</sup> 2.5
Tightening torque for terminals		
	min	Nm 1
	max	Nm 1
	min	lbft 0.74
	max	lbft 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>		
Operational position		
	Operating position normal	Vertical plan
	Operating position allowable	±30°
Weight	g	116
<b>UL technical data</b>		
Full-load current (FLA) for three-phase AC motor		
	at 480V	A 5
	at 600V	A 5
<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