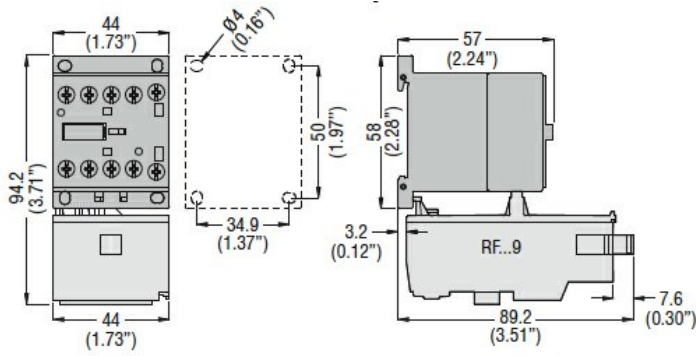


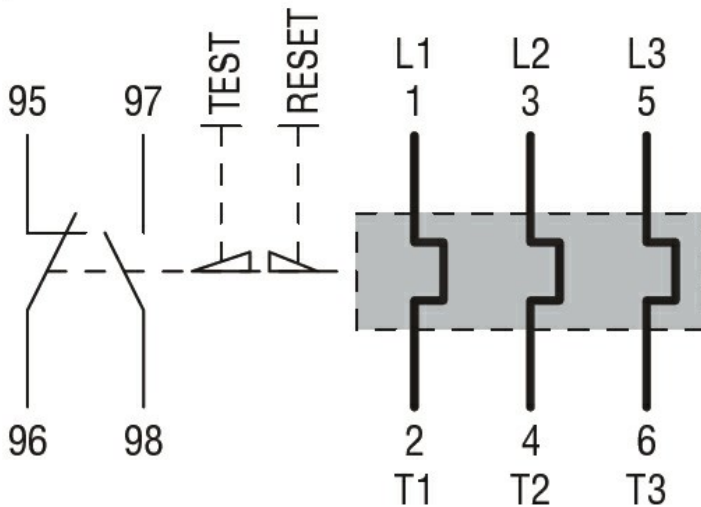


Product designation				11RF9
Product type designation				Motor protection relay
<b>General characteristics</b>				
Number of poles	nr.			3
Overvoltage category				III
Pollution degree				3
Frontal IP degree				IP20
Type of release				Thermal
Protection fuse				
	gG (IEC)	A	40	
	aM (IEC)	A	16	
	RK5 (UL)	A	45	
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	9	
	Operational current max	A	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	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 15
	at 600V	A 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