



Product designation

11RFA9

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 2
	aM (IEC)	A 1
	RK5 (UL)	A 3
Phase failure detection		Yes
Reset mode		Automatic

### 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 0.45
	Operational current max	A 0.75
Tripping class		10A
Test Button		Yes
Trip indicator		Yes

Terminals

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

Tightening torque for terminals

min Nm 2.3  
max Nm 2.3  
min lbin 1.7  
max lbin 1.7

Conductor section

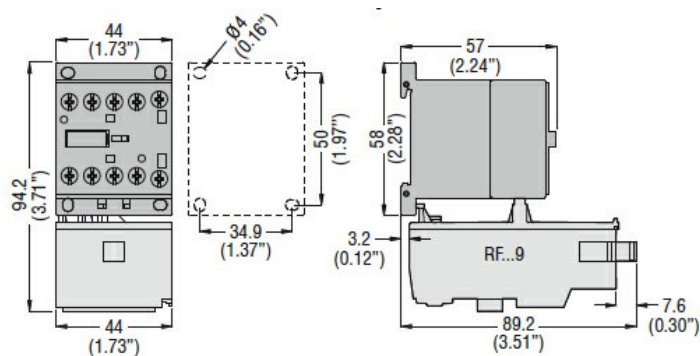
AWG/kcmil max 10

### Auxiliary circuit characteristics

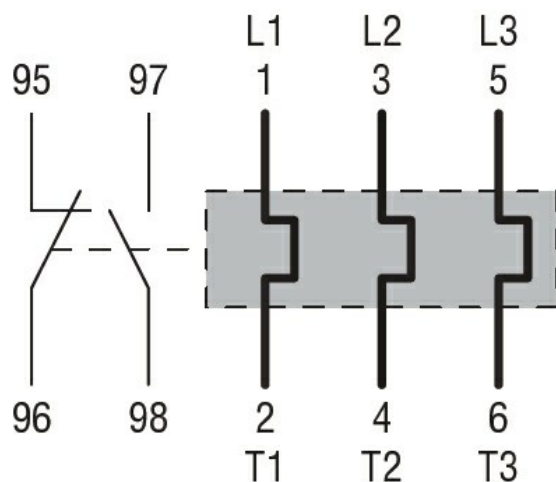
Auxiliary contacts

NO nr. 1  
NC nr. 1

Auxiliary Rated insulation voltage Ui IEC/EN	V	690
Auxiliary Rated impulse withstand voltage Uimp	kV	6
Auxiliary Rated operational voltage	V	690
Operating current AC15	24V	A 1.5
	120V	A 1.5
	240V	A 0.75
IEC Conventional free air thermal current Ith	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		C300-R300
<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 0.75
	at 600V	A 0.75
<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