



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 20
	aM (IEC)	A 8
	RK5 (UL)	A 25
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 4.5
	Operational current max	A 7.5
Tripping class		10A
Test Button		yes
Trip indicator		yes

Terminals

type	screw and washer
screw	M4
width	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

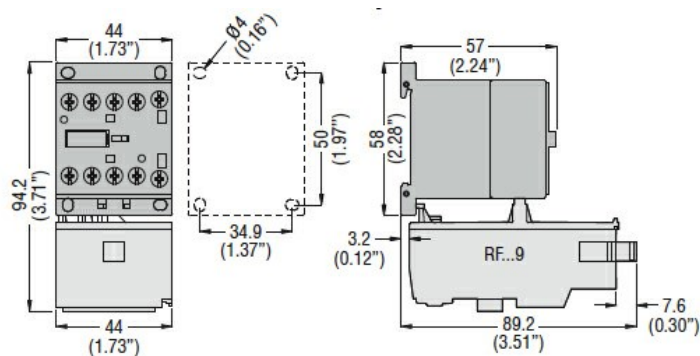
AWG/kcmil max	10
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### Auxiliary circuit characteristics

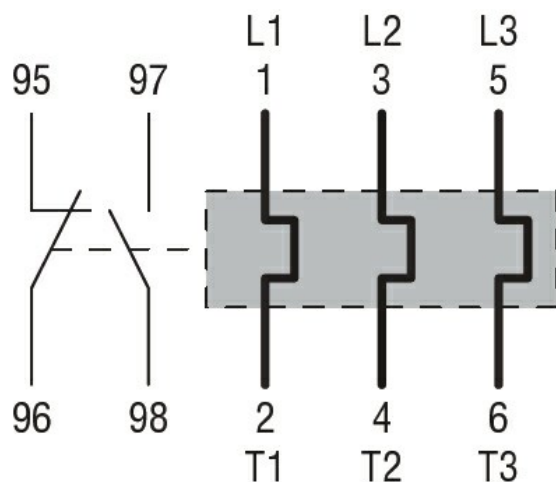
Auxiliary contacts

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 120V 240V	A 1.5 1.5 0.75
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		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°
Fixing		Direct mounting on BG06... BG09... BG12...
Weight	g	116
<b>UL technical data</b>		
Full-load current (FLA) for three-phase AC motor	at 480V at 600V	A 7.5 7.5
<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

## ETIM classification

ETIM 8.0

EC000106 -  
Thermal overload  
relay