



Product designation

RF110

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 200
	aM (IEC)	A 100
	K5 (UL)	A 350
Phase failure detection		yes
Reset mode		Manual

### 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 max	Hz Hz 0 400
Operational current $I_e$		
	Operational current min	A 70
	Operational current max	A 95
Tripping class		10A
Test Button		Yes
Trip indicator		yes

Terminals

type  
screw  
width  
tool

mm

Yoke clamp  
M5  
9  
Phillips 2

Tightening torque for terminals

min  
max  
min  
max

Nm  
Nm  
lbin  
lbin

3.9  
3.9  
2.88  
2.88

Conductor section

AWG/kcmil max

2

### Auxiliary circuit characteristics

Auxiliary contacts

NO  
NC

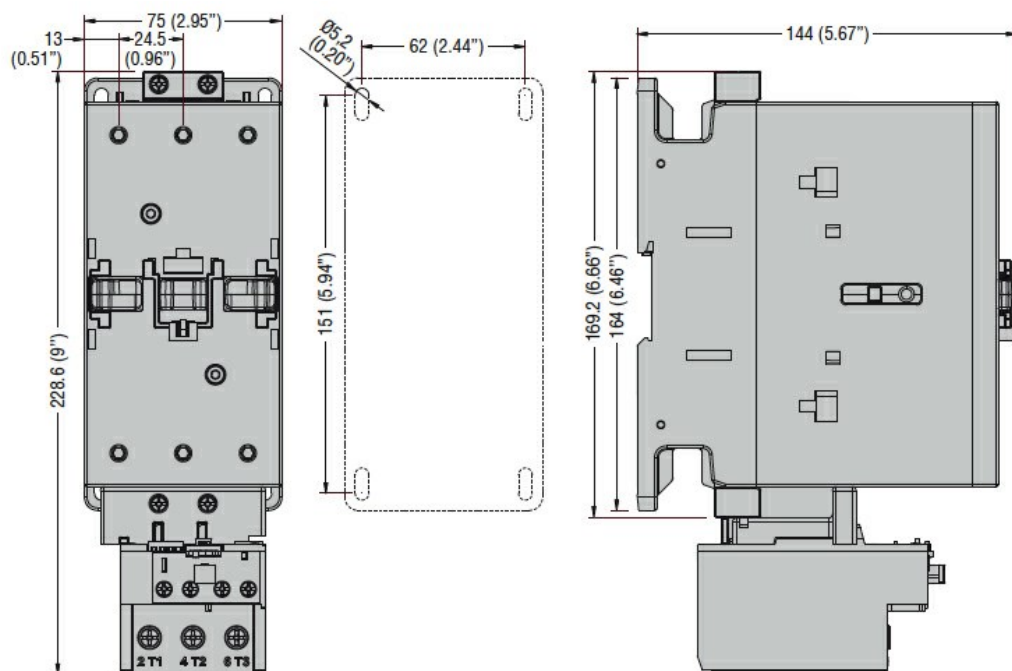
Nr.  
Nr.

1  
1

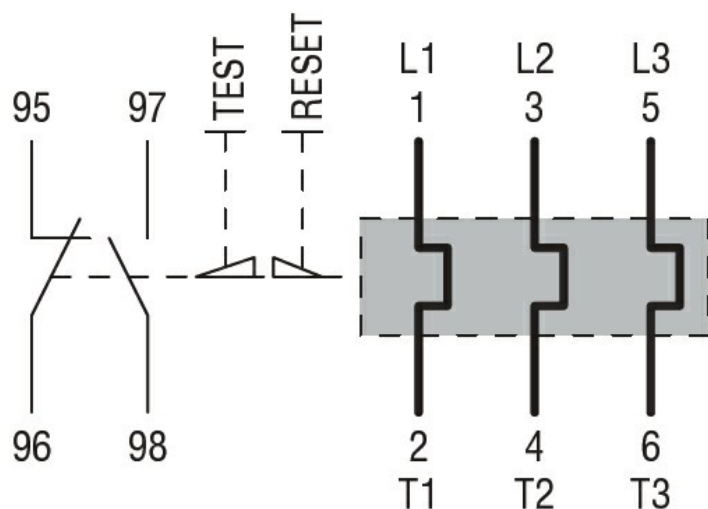
Auxiliary Rated insulation voltage  $U_i$  IEC/EN

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
	500V	A 0.72
Operating current DC13	125V	A 0.11
	600V	A 0.22
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		B600-P600
<b>Ambient conditions</b>		
Operating temperature	min °C	-20
	max °C	55
Storage temperature	min °C	-55
	max °C	80
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	365
<b>UL technical data</b>		
Full-load current (FLA) for three-phase AC motor	at 480V	A 95
	at 600V	A 95
<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

cULus

## ETIM classification

ETIM 8.0

EC000106 -  
Thermal overload  
relay