



Product designation

RF38

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	aM (IEC)	A 0.25
	RK5 (UL)	A 1
Phase failure detection		yes
Reset mode		Manual or automatic

Power circuit characteristics

Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Rated operational voltage	V	690
Operational frequency	min	Hz 0
	max	Hz 400
Operational current I_e	Operational current min	A 0.1
	Operational current max	A 0.16
Tripping class		10A
Test Button		Yes
Trip indicator		yes

Terminals

type	screw and washer
screw	M4
width	mm 12.6
tool	Phillips 2

Tightening torque for terminals

min	Nm	2
max	Nm	2.5
min	lbin	1.5
max	lbin	1.8

Conductor section

Flexible w/o lug max	mm ²	10
Flexible c/w lug max	mm ²	6
AWG/kcmil max		8

Auxiliary circuit characteristics

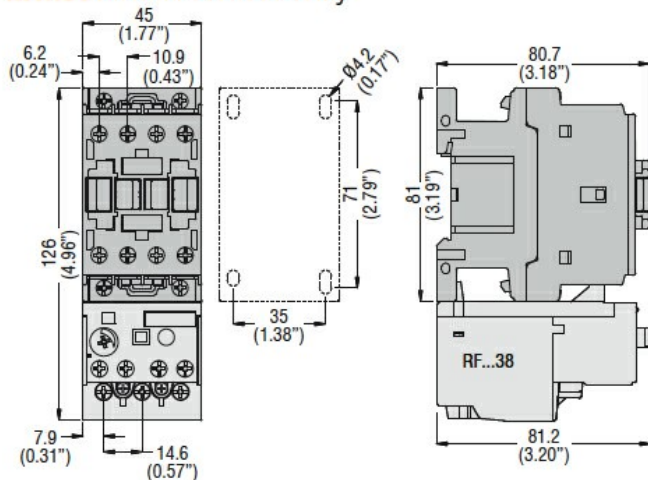
Auxiliary contacts

	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	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
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 2
Conductor section			
	Auxiliary circuit Flexible w/o lug max	mm ²	2.5
	Auxiliary circuit Flexible c/w lug max	mm ²	2.5
Tightening torque for terminals			
	Auxiliary circuit min	Nm	0.8
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	lbin	0.59
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			B600-R300
Ambient conditions			
Operating temperature	min	°C	-25
	max	°C	60
Storage temperature	min	°C	-50
	max	°C	70
Compensation temperature	min	°C	-20
	max	°C	60
Max altitude	m		3000
Mechanical features			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Direct mounting on BF09... BF38...
Weight	g		160
UL technical data			
Full-load current (FLA) for three-phase AC motor			

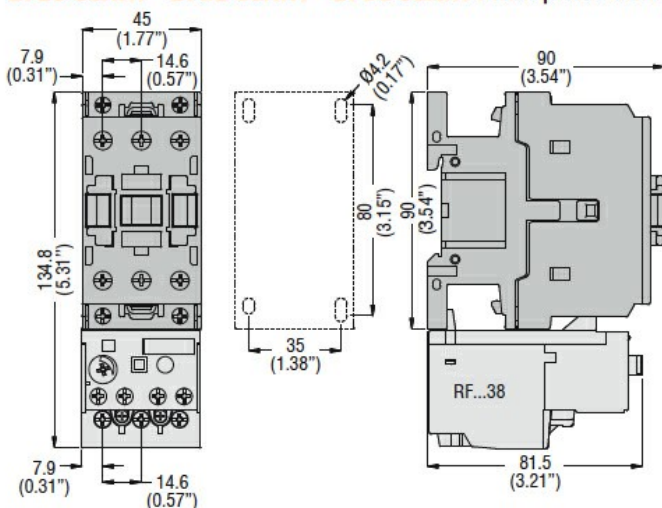
at 480V	A	0.16
at 600V	A	0.16

Dimensions

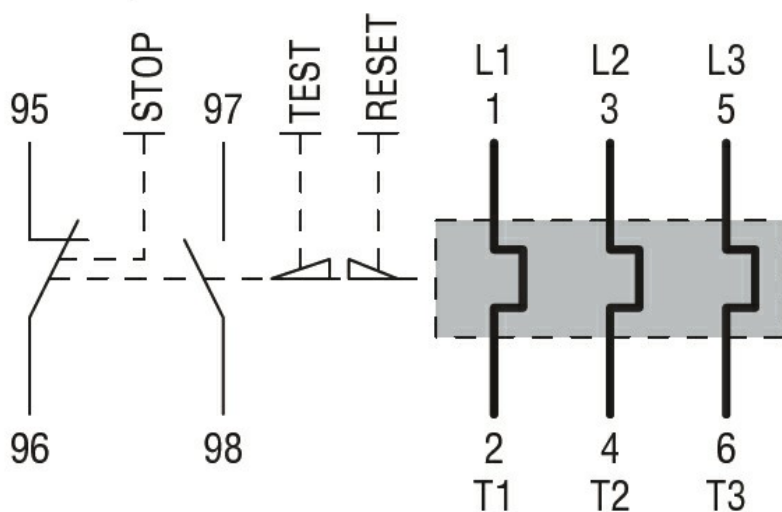
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with **RF...38** thermal overload relay



BF26 00A... - BF32 00A... - BF38 00A... three poles with **RF...38** thermal overload relay



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000106 -
Thermal overload
relay