



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
Terminals IP degree		-
Type of release		Thermal
Protection fuse		
	gG (IEC)	A 32
	aM (IEC)	A 16
	RK5 (UL)	A 50
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 max	Hz Hz 0 400
Operational current I_e	Operational current min Operational current max	A 9 A 14
Tripping class		10A
Test Button		yes
Trip indicator		yes
Terminals		

type	screw and washer
screw	M4
width	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
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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	0.6
Auxiliary circuit max	lbin	0.74

UL/CSA and IEC/EN 60947-5-1 designation	B600-R300
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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
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Mechanical features

Operating position

normal	Vertical plan
allowable	±30°

Fixing	Direct mounting on BF09... BF38...
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Weight	g	160
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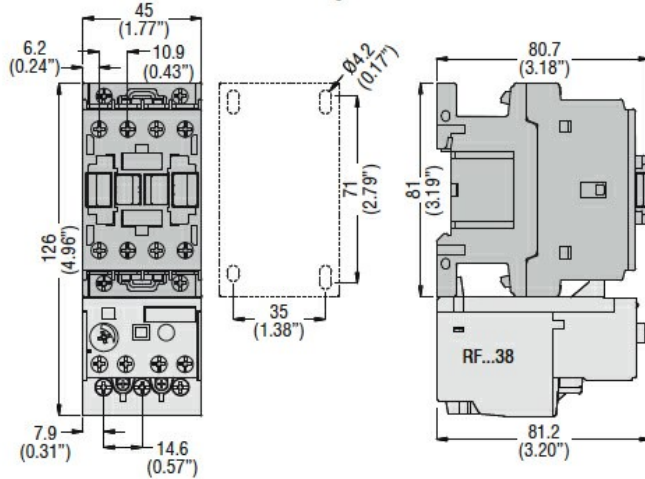
UL technical data

Full-load current (FLA) for three-phase AC motor

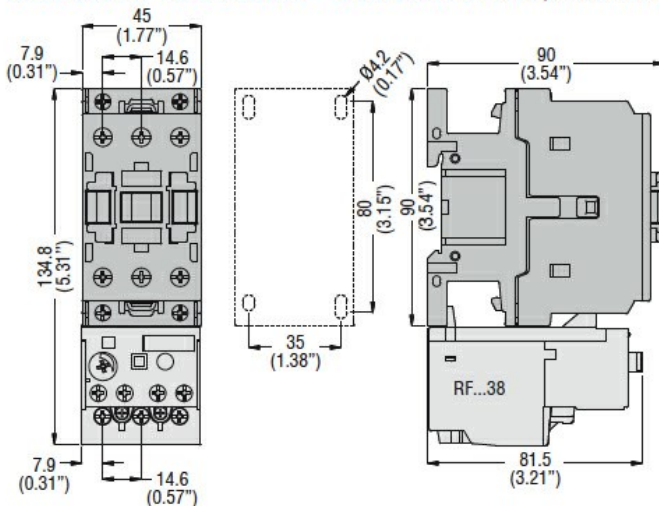
at 480V	A	14
at 600V	A	14

Dimensions

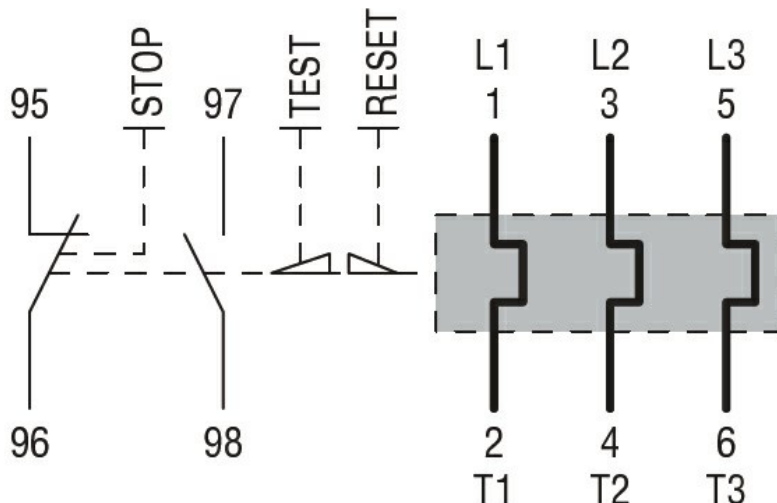
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with **RF...38** thermal overload relay



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