



Product designation				RF38
Product type designation				Motor protection relay
<b>General characteristics</b>				
Number of poles	Nr.			3
Overvoltage category				III
Pollution degree				3
Frontal IP degree				IP20
Type of release				Thermal
Protection fuse				
	gG (IEC)	A	6	
	aM (IEC)	A	4	
	RK5 (UL)	A	15	
Phase failure detection				yes
Reset mode				Manual or automatic
<b>Power circuit characteristics</b>				
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	2.5	
	Operational current max	A	4	
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 <sup>2</sup>	10	
	Flexible c/w lug max	mm <sup>2</sup>	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 <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	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°
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Fixing

Direct mounting on BF09... BF38...

Weight

g 160

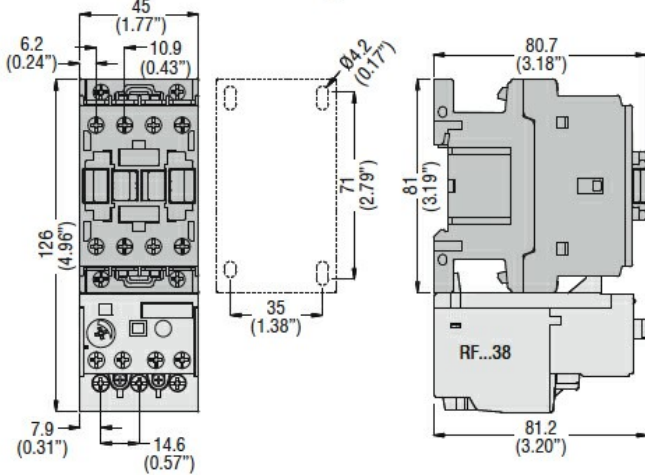
**UL technical data**

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

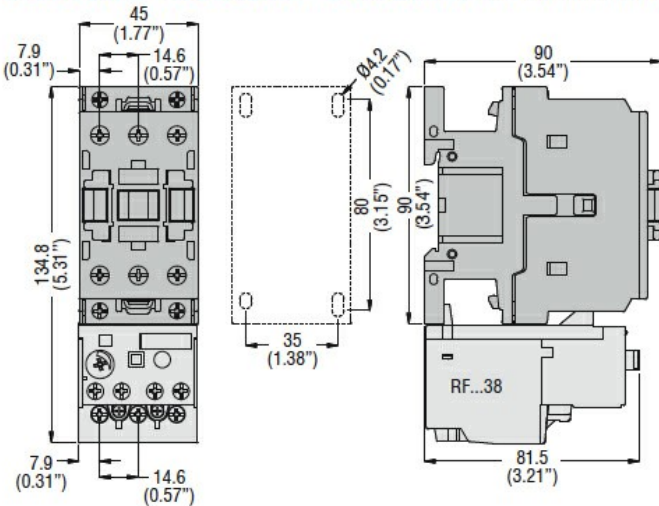
at 480V	A	4
at 600V	A	4

**Dimensions**

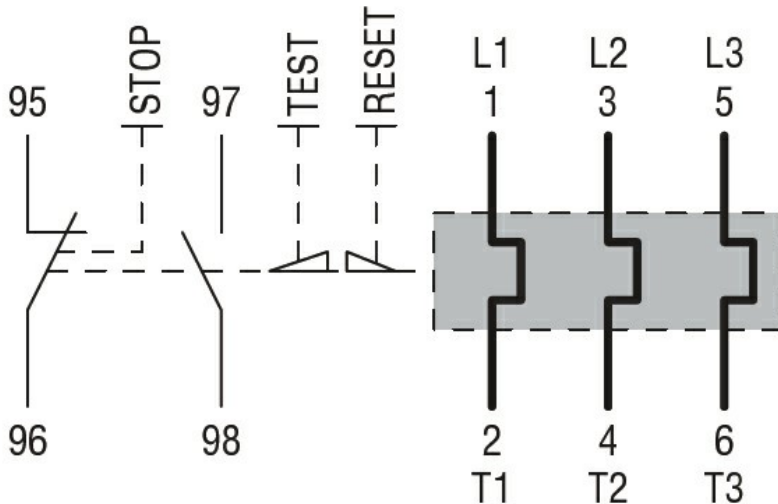
**BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A...** three poles with **RF...38** thermal overload relay



**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