



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		
	gG (IEC)	A 40
	aM (IEC)	A 25
	RK5 (UL)	A 70
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 13
	Operational current max	A 18
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
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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 allowable		Vertical plan ±30°
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Fixing			Direct mounting on BF09... BF38...
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Weight		g	160
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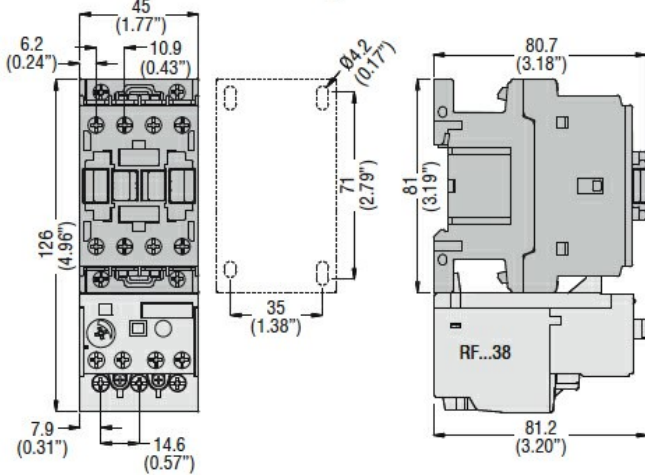
**UL technical data**

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

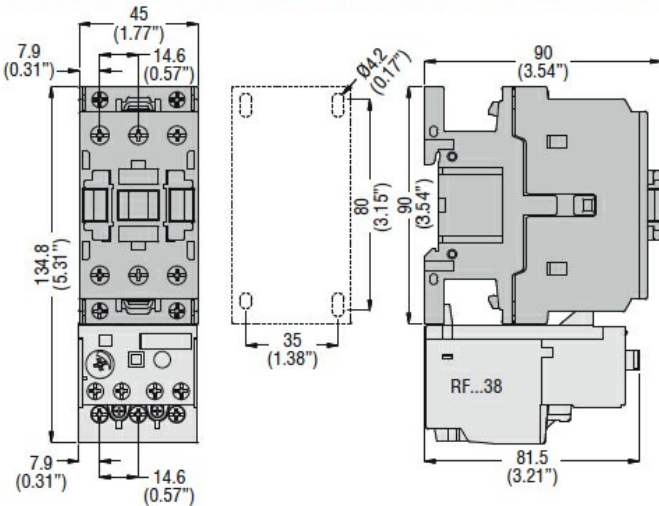
at 480V	A	18
at 600V	A	18

**Dimensions**

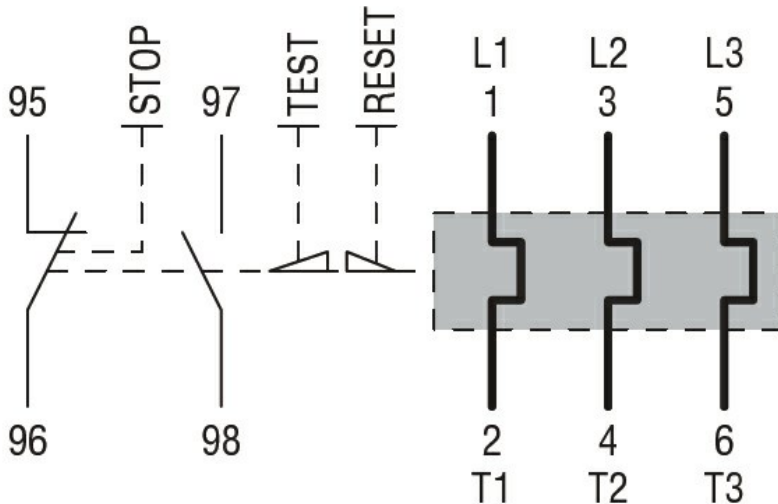
**BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A...** three poles with **RF...38** thermal overload relay



**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