



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 Ui IEC/EN		V	690	
Rated impulse withstand voltage Uimp		kV	6	
Rated operational voltage		V	690	
Operational frequency		min	Hz	0
		max	Hz	400
Operational current Ie				
	Operational current min	A	9	
	Operational current max	A	14	
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	mm²	10	
	Flexible c/w lug max	mm²	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	0.6
	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	Vertical plan
	allowable	±30°

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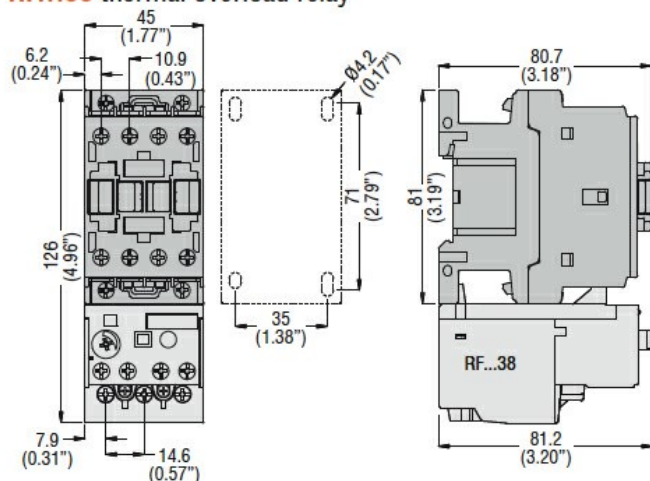
## UL technical data

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

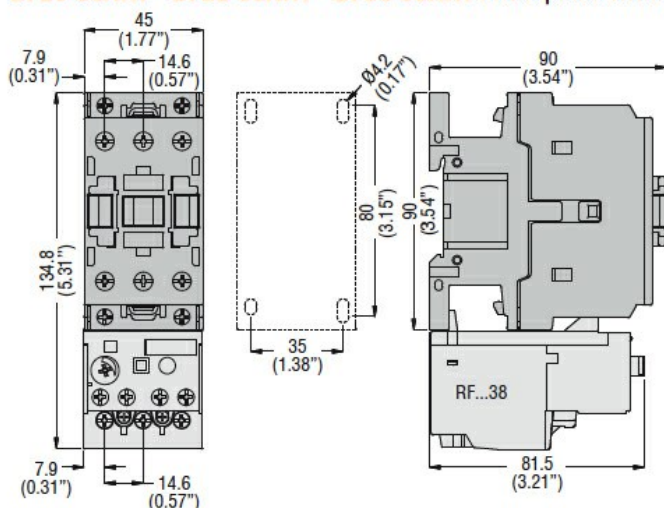
at 480V	A	14
at 600V	A	14

## Dimensions

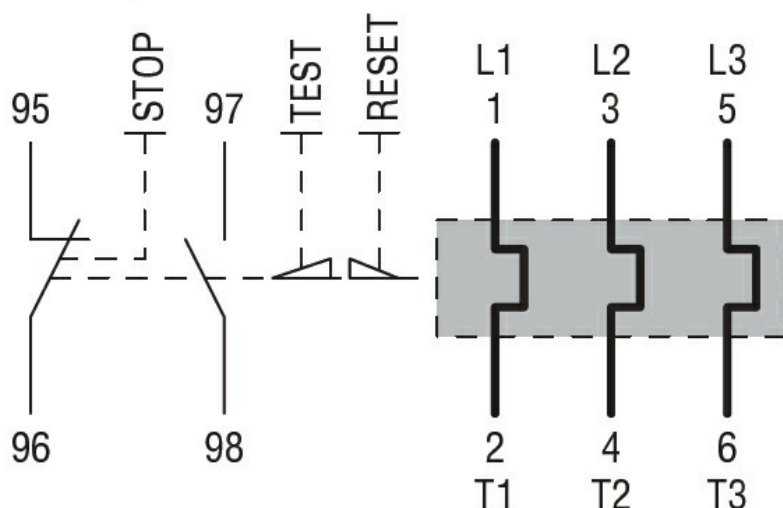
**BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A...** three poles with **RF...38** thermal overload relay



**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