



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	Hz	0	
	max	Hz	400	
Operational current I_e				
	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 width	mm	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
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Auxiliary Rated impulse withstand voltage U_{imp}	kV	6
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Auxiliary Rated operational voltage	V	690
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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	Ibin	0.6
	Auxiliary circuit max	Ibin	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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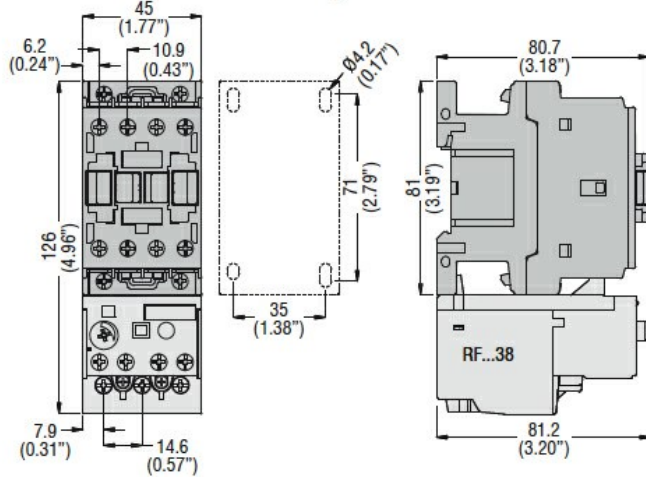
UL technical data

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

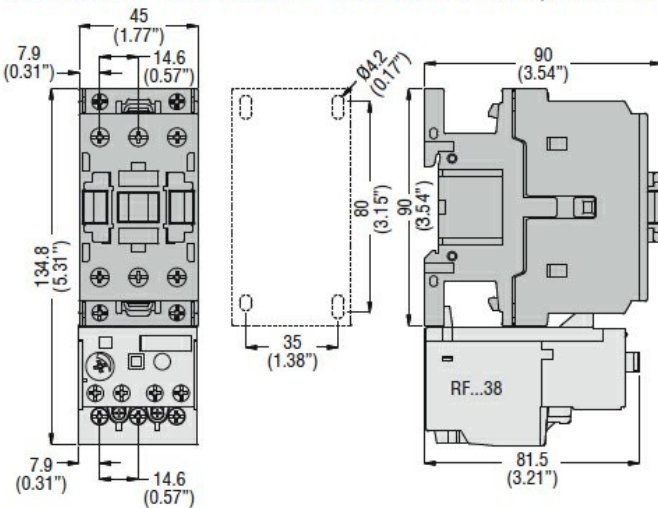
at 480V	A	14
at 600V	A	14

Dimensions [mm (in)]

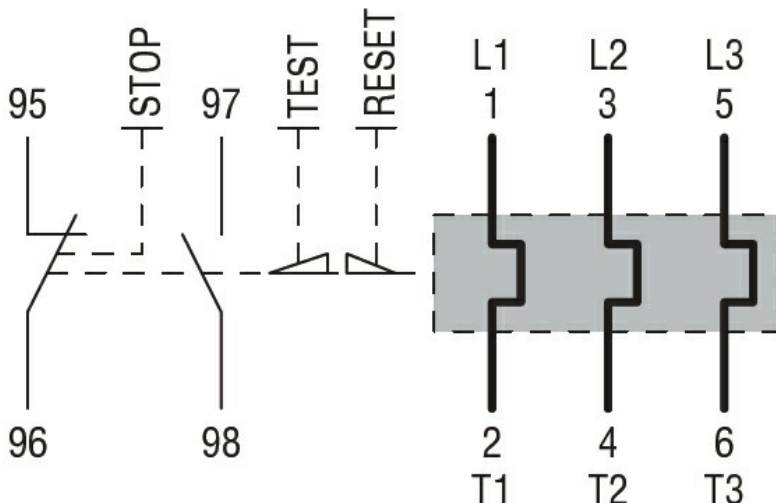
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with **RF...38** thermal overload relay



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