MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 0.25...0.40A

Product designation			RFN38
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	1
	aM (IEC)	A	0.5
	RK5 (UL)	A	3
Phase failure detection			no
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	0.25
	Operational current max	A	0.4
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			
	AWG/kcmil max		8
Auxiliary circuit characteristics			
Auxiliary contacts			
	NO	Nr.	1

RFN380040

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		NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN			V	690
Auxiliary Rated impulse withstand voltage Uimp			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 Ith			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		mm²	2.5
	Auxiliary circut Flexible c/w lug max		mm²	2.5
Tightening torque for terminals				
	Auxiliary circuit min		Nm	0.8
	Auxiliary circuit max		Nm	1
	Auxiliary circuit min		Ibin	0.59
	Auxiliary circuit max		Ibin	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…
Weight			g	160

UL technical data

Full-load current (FLA) for three-phase AC motor				
		at 480V	A	0.4
		at 600V	A	0.4

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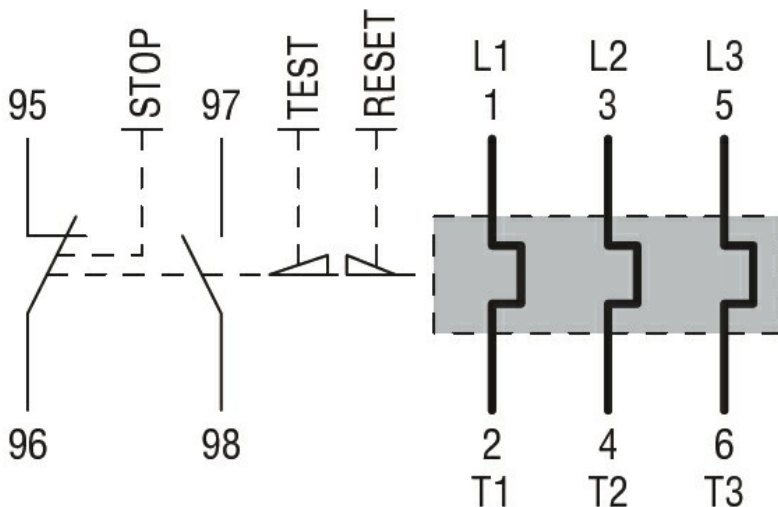
Dimensions

BF00 A… BF09 A… - BF12 A… - BF18 A… - BF25 A… three poles with **RF…38** thermal overload relay
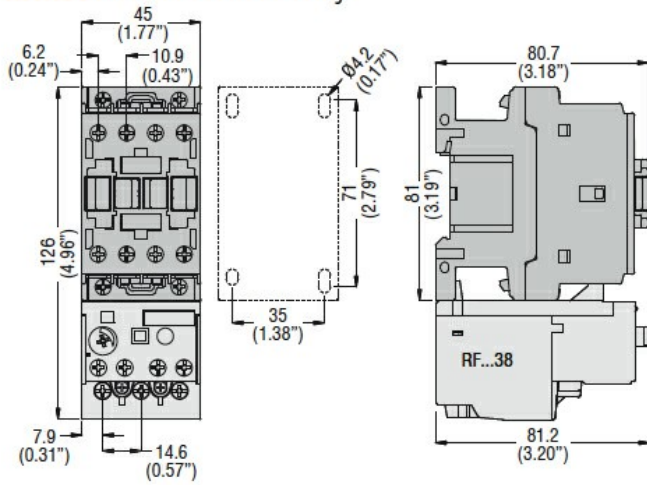
BF26 00A… - BF32 00A… - BF38 00A… three poles with **RF…38** thermal overload relay
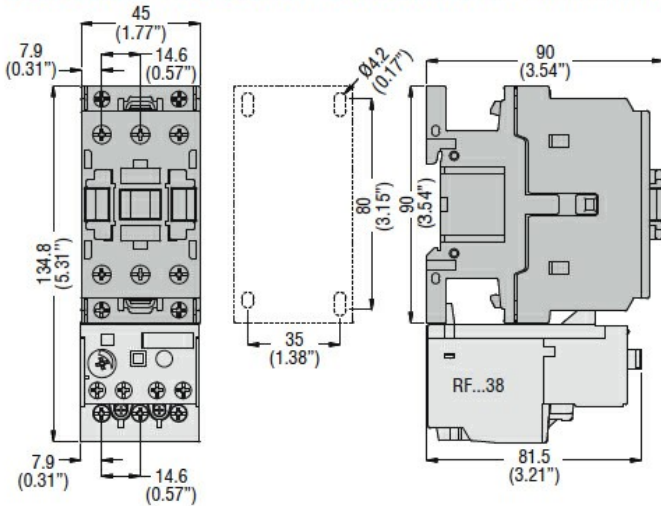
Wiring diagrams

Certifications and compliance

Compliance

CSA C22.2 n° 14
IEC/EN 60947-1

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	IEC/EN 60947-4-1	
	UL508	
Certifications		
	CCC	4 / 4
	cULus	
	EAC	

ETIM classification

ETIM 8.0		EC000106 - Thermal overload relay