



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	aM (IEC) RK5 (UL)	A A	0.5 1
Phase failure detection		No	
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 max	Hz Hz	0 400
Operational current I_e	Operational current min Operational current max	A A	0.16 0.25
Tripping class		10A	
Test Button		Yes	
Trip indicator		Yes	
Terminals	type screw width tool		Screw and washer M4 12.6 Phillips 2

Tightening torque for terminals	min max min max	Nm Nm lbin lbin	2 2.5 1.5 1.8
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Conductor section	AWG/kcmil max	8
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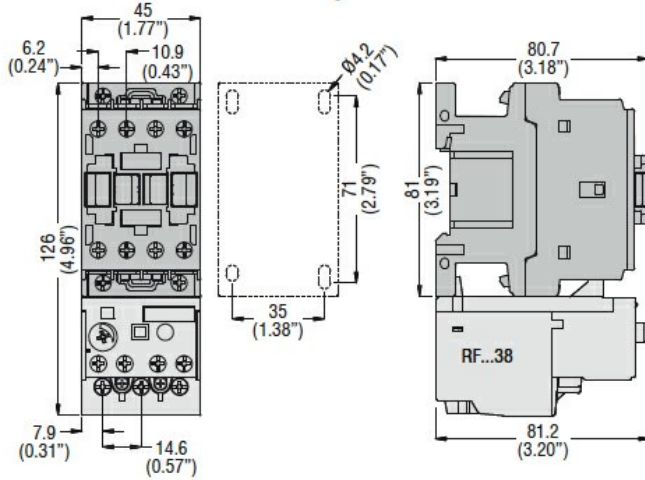
Auxiliary circuit characteristics

Auxiliary contacts	NO NC	Nr. Nr.	1 1
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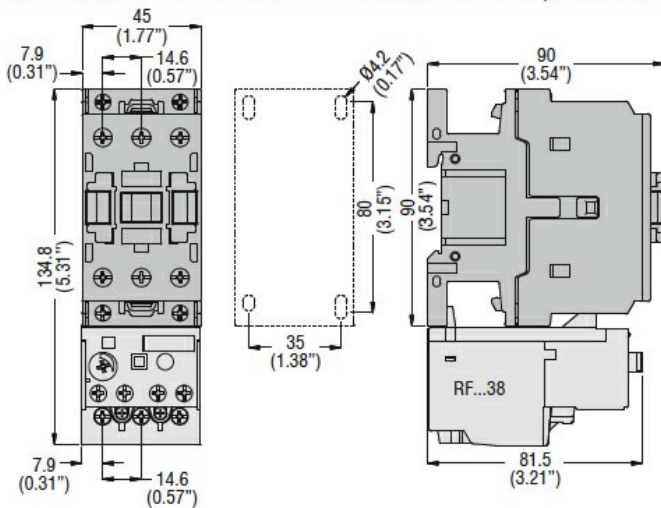
Auxiliary Rated insulation voltage Ui IEC/EN	V	690
Auxiliary Rated impulse withstand voltage Uimp	kV	6
Auxiliary Rated operational voltage	V	690
Operating current AC15		
	24V	A 3
	120V	A 3
	240V	A 1.5
	380V	A 0.95
	480V	A 0.75
	500V	A 0.72
	600V	A 0.6
Operating current DC13		
	125V	A 0.11
	600V	A 0.22
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	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 0.59
	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 allowable	Vertical plan ±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 0.25
	at 600V	A 0.25
Dimensions		

MOTOR PROTECTION RELAY, NON PHASE FAILURE / NON SINGLE PHASE SENSITIVE.
THREE POLE (THREE PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING
ON BF09 - BF38 CONTACTORS, 0.16...0.25A

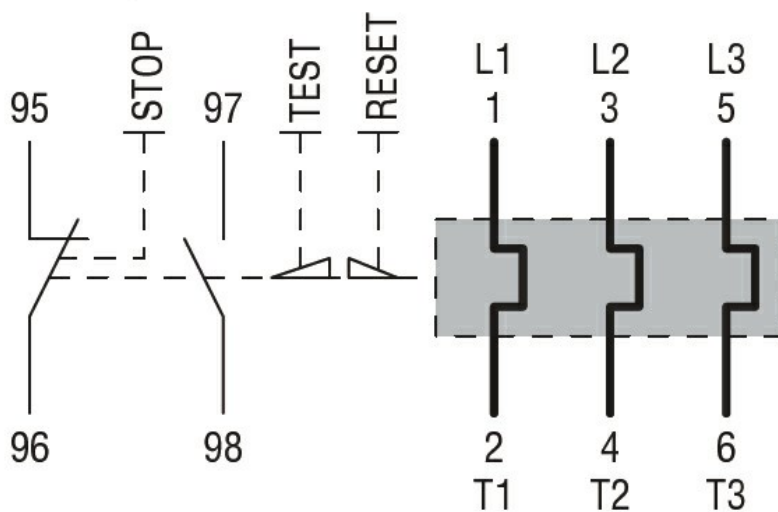
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with
RF...38 thermal overload relay



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

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THREE POLE (THREE PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING
ON BF09 - BF38 CONTACTORS, 0.16...0.25A

UL508

Certifications

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000106 -
Thermal overload
relay