



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 13...18A



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)	Α	40
	aM (IEC)	Α	25
	RK5 (UL)	Α	70
Phase failure detection			no
Reset mode			Manual or
Reset mode			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 le			
	Operational current min	Α	13
	Operational current max	Α	18
Tripping class			10A
Test Button			Yes
Trip indicator			yes
Terminals			
	tı (0.0		screw and
	type		washer
	screw		M4
	width	mm	12.6
	tool		Phillips 2
Tightening torque for terminals			
	min	Nm	2
	max	Nm	2.5
	min	Ibin	1.5
	max	Ibin	1.8
Conductor section			
	AWG/kcmil max		8
Auxiliary circuit characteristics			
Auxiliary contacts			
	NO	Nr.	1





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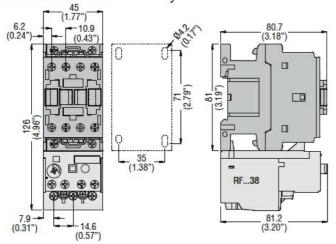
	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		Α	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	lbin	0.59
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			B600-R300
Ambient conditions			
Operating temperature		0.0	0.5
	min	°C	-25
Otana na taman anatuna	max	°C	60
Storage temperature		°C	E0
	min	°C	-50 -70
Componentian temperature	max	°C	70
Compensation temperature		°C	20
	min	°C	-20
Max altitude	max		3000
Mechanical features		m	3000
Operating position			
Operating position	normal		\/ortical plan
	normal allowable		Vertical plan ±30°
-	allowable		Direct mounting
Fixing			on BF09
Living			BF38
Weight		g	160
UL technical data		9	
Full-load current (FLA) for three-phase AC motor			
and the second s	at 480V	Α	18
	at 400V	A	18
	at 000 v	, ,	

**ENERGY AND AUTOMATION** 

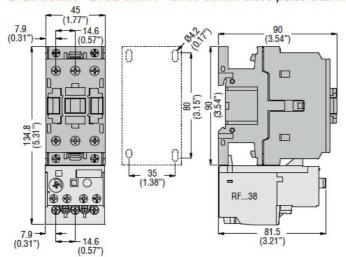
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## **Dimensions**

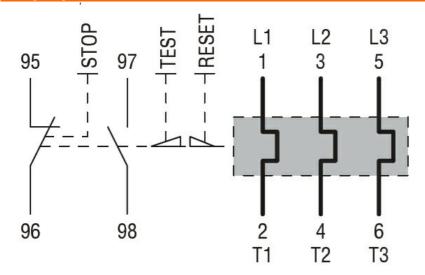
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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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## **RFN381800**

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

**ETIM 8.0** 

EC000106 -Thermal overload relay