



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 2.5...4A



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	6
	aM (IEC)	Α	4
	RK5 (UL)	Α	15
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			
operation in equation	min	Hz	0
	max	Hz	400
Operational current le			
	Operational current min	Α	2.5
	Operational current max	Α	4
Tripping class	operational outront max	- , ,	10A
Test Button			yes
Trip indicator			yes
Terminals			you
Tominals			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	lbin	1.5
	max	lbin	1.8
Conductor section	max		
Solitation coolien	AWG/kcmil max		8
Auxiliary circuit characteristics	7.177 O/NOITHI THAX		
Auxiliary contacts		_	
	NO	Nr.	1





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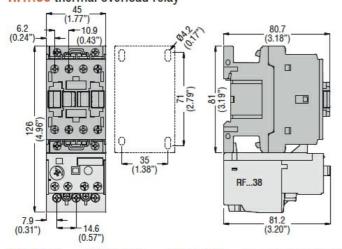
Auxiliary Rated insulation voltage UitEC/EN V 690		NC	Nr.	1
Auxiliary Rated impulse withstand voltage Uimp Auxiliary Rated operational voltage September 1997 September 2007 Se	Auxiliary Rated insulation voltage Ui IEC/EN			
Auxiliary Rated operational voltage			kV	6
24V			V	690
120V				
A	, -	24V	Α	3
Section		120V	Α	3
A		240V	Α	1.5
SONY		380V	Α	0.95
Comparing current DC13		480V	Α	0.75
Departing current DC13		500V	Α	0.72
125V		600V	Α	0.6
Conventional free air thermal current lith	Operating current DC13			
EC Conventional free air thermal current lith Terminals		125V	Α	0.11
Auxiliary circuit type Auxiliary circuit total Auxiliary circuit total Auxiliary circuit total Auxiliary circuit max Auxiliary circuit min Auxiliary ci		600V	Α	0.22
Auxiliary circuit type	IEC Conventional free air thermal current Ith		Α	10
Auxiliary circuit type Auxiliary circuit t	Terminals			
Auxiliary circuit screw Auxiliary circuit tool Auxiliary circuit max Auxiliary circui		A !!		screw and
Auxiliary circuit width Auxiliary circuit tool		Auxiliary circuit type		
Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit min Boin 0.59 Auxiliary circuit min Auxiliary circuit min Auxiliary circuit min Boin 0.74 Auxiliary circuit min Auxiliary circuit min Boin 0.74 Auxiliary circuit min Auxiliary circuit min Boin 0.74 Auxiliary circuit min Boin 0.74 Auxiliary circuit min Boin 0.74 Auxiliary circuit min Min 0.74 Auxiliary circuit min Min 0.75 Auxiliary ci		Auxiliary circuit screw		M3,5
Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit min Flexible c/w lug max Flexible c/m lug max Flexible c/		Auxiliary circuit width	mm	8
Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit min Plant Pla		Auxiliary circuit tool		Phillips 2
Auxiliary circuit Flexible c/w lug max	Conductor section			
Auxiliary circuit min Bibin 0.59 B600-R300 B600-R300 B600-R300 B700-R300 B70		Auxiliary circuit Flexible w/o lug max	mm²	2.5
Auxiliary circuit min Bibin 0.59 B600-R300 B600-R300 B600-R300 B700-R300 B70		•	mm²	2.5
Auxiliary circuit min Auxiliary circuit max Ibin 0.74	Tightening torque for terminals			
Auxiliary circuit max Auxiliary circuit max Auxiliary circuit min Auxiliary circuit min Auxiliary circuit max Auxiliary circuit max Auxiliary circuit max Auxiliary circuit max Ibin 0.59		Auxiliary circuit min	Nm	0.8
Auxiliary circuit min Auxiliary circuit min Auxiliary circuit max Auxiliary Auxiliary circuit				
Muxiliary circuit max		-		
UL/CSA and IEC/EN 60947-5-1 designation			Ibin	
Ambient conditions Operating temperature min or c of color	UL/CSA and IEC/EN 60947-5-1 designation	·		B600-R300
min max °C c c c c c c c c c c c c c c c c c c c				
min max °C c c c c c c c c c c c c c c c c c c c	Operating temperature			
Storage temperature min max °C -50 -50 max °C 70 Compensation temperature min or C -20 max °C -20 max 60 Max altitude m 3000 3000 Mechanical features normal allowable Vertical plan allowable ±30° Fixing Direct mounting on BF09 BF38 BF38 Weight g 160 UL technical data FUll-load current (FLA) for three-phase AC motor at 480V A 4		min	°C	-25
min 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 Tull-load current (FLA) for three-phase AC motor at 480V A 4		max		
min 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 Tull-load current (FLA) for three-phase AC motor at 480V A 4	Storage temperature			
max °C 70 Compensation temperature min °C -20 max °C 60 Max altitude m 3000 Mechanical features Vertical plan Operating position normal 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 4	- '	min	°C	-50
min max °C 60 Max altitude m 3000 Mechanical features onormal allowable Vertical plan ±30° Direct mounting on BF09 BF38 Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 4		max	°C	70
min max °C 60 Max altitude m 3000 Mechanical features onormal allowable Vertical plan ±30° Direct mounting on BF09 BF38 Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 4	Compensation temperature			
Max altitude m 3000 Mechanical features Operating position normal allowable 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 4	· ·	min	°C	-20
Max altitude m 3000 Mechanical features Operating position normal Vertical plan allowable ±30° Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 4		max		
Mechanical features Operating position normal Vertical plan allowable ±30° Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 4	Max altitude		m	
rormal allowable barried plan allowable barried plan allowable barried plan allowable barried plan barried plan allowable barried plan	Mechanical features			
rormal allowable barried plan allowable barried plan allowable barried plan allowable barried plan barried plan allowable barried plan	Operating position			
Fixing Fixing Weight UL technical data Full-load current (FLA) for three-phase AC motor at 480V A A Direct mounting on BF09 BF38 g 160 UL technical data Full-load current (FLA) for three-phase AC motor		normal		Vertical plan
Fixing on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 4				
Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 4				Direct mounting
Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 4	Fixing			
UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 4				
Full-load current (FLA) for three-phase AC motor at 480V A 4			g	160
at 480V A 4				
	Full-load current (FLA) for three-phase AC motor			
at 600V A 4			Α	4
		at 600V	Α	4

ENERGY AND AUTOMATION

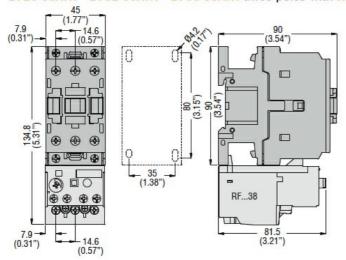
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Dimensions

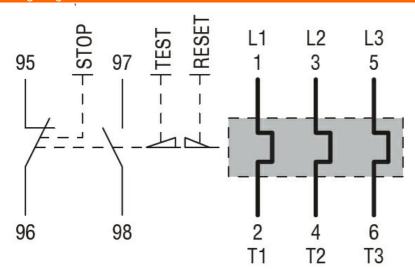
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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



ENERGY AND AUTOMATION

RFN380400

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

ETIM 8.0

EC000106 -Thermal overload relay