# RF380100



MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE Electric (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 AND AUTOMATION CONTACTORS, 0.63...1A



Product designation			RF38 Motor protection
Product type designation			Motor protection relay
General characteristics			
Number of poles		Nr.	3
Overvoltage category			
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	А	4
	aM (IEC)	А	2
	RK5 (UL)	А	3
Phase failure detection	· · · ·		yes
Deast made			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	А	0.63
	Operational current max	А	1
Tripping class			10A
Test Button			yes
Trip indicator			yes
Terminals			
	type		screw and
	(JPC		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			
	Flexible w/o lug max	mm²	10
	Flexible c/w lug max	mm²	6
Auxiliary circuit characteristics	AWG/kcmil max		8

## Auxiliary circuit characteristics



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Auxiliary contacts

Auxiliary contacts			
	NO	Nr.	1
Auxiliant Dated insulation voltage LLi IFC/FN	NC	Nr. V	1
Auxiliary Rated insulation voltage Ui IEC/EN Auxiliary Rated impulse withstand voltage Uimp		kV	690 6
Auxiliary Rated operational voltage		V	690
Operating current AC15		v	090
Operating current AC 13	24V	А	3
	120V	A	3
	240V	A	1.5
	380V	A	0.95
	480V	А	0.75
	500V	А	0.72
	600V	А	0.6
Operating current DC13			
	125V	А	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 Ibin	0.59
UL/CSA and IEC/EN 60947-5-1 designation	Auxiliary circuit max	Ibin	0.74 B600-R300
Ambient conditions			B000-1300
Operating temperature			
	min	°C	-25
	max	°Č	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
i Mily			BF38
Weight		g	160
UL technical data		3	

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at 480V

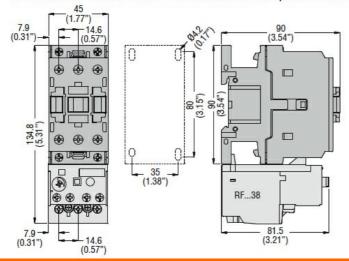
А

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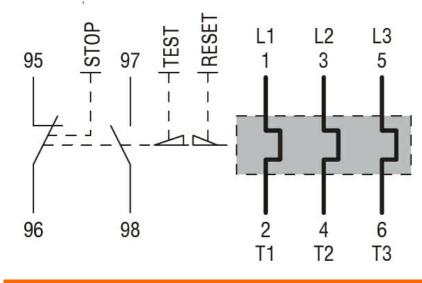
Full-load current (FLA) for three-phase AC motor

	at 600V	А	1	
Dimensions [mm (in)]				
BF00 A BF09 A BF12 A BF18 A BF25 A three poles with RF38 thermal overload relay				
7.9 - 14.6 (0.31") (0.57") 81.2 (3.20")				

BF26 00A... - BF32 00A... - BF38 00A... three poles with RF...38 thermal overload relay



Wiring diagrams



#### Certifications and compliance

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### Compliance

-	CSA C22.2 n° 14	
	IEC/EN 60947-1	
	IEC/EN 60947-4-1	
	UL508	
Certifications		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000106 -

ETIM 8.0

EC000106 -Thermal overload relay