RF381800



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, 13...18A



Product designation			RF38
Product type designation			Motor protection relay
General characteristics			ý
Number of poles		Nr.	3
Overvoltage category			
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	А	40
	aM (IEC)	А	25
	RK5 (UL)	А	70
Phase failure detection			yes
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	А	13
	Operational current max	А	18
Tripping class			10A
Test Button			yes
Trip indicator			yes
Terminals			
	turo -		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			
	Flexible w/o lug max	mm²	10
	Flexible c/w lug max	mm²	6
	AWG/kcmil max		8
Auxiliary circuit characteristics			

Auxiliary circuit characteristics

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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Auxiliary contacts

Auxiliary contacts			
	NO	Nr.	1
	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN		V kV	690
Auxiliary Rated impulse withstand voltage Uimp Auxiliary Rated operational voltage		V V	6 690
Operating current AC15		v	090
Operating current AC 15	24V	А	3
	120V	A	3
	240V	А	1.5
	380V	А	0.95
	480V	А	0.75
	500V	А	0.72
	600V	А	0.6
Operating current DC13			
	125V	A	0.11
	600V	<u>A</u>	0.22
IEC Conventional free air thermal current Ith		A	10
Terminals			aarow and
	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
LIL/CSA and IEC/EN 60047 5 1 designation	Auxiliary circuit max	Ibin	0.74 B600-R300
UL/CSA and IEC/EN 60947-5-1 designation Ambient conditions			B000-K300
Operating temperature			
	min	°C	-25
	max	°Ċ	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°
	allowable		Direct mounting
Fixing			on BF09
5			BF38
Weight		g	160
UL technical data			

RF381800

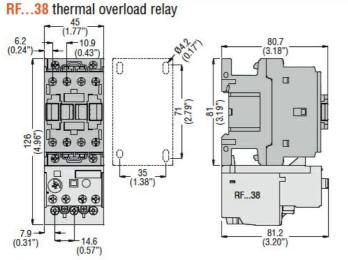




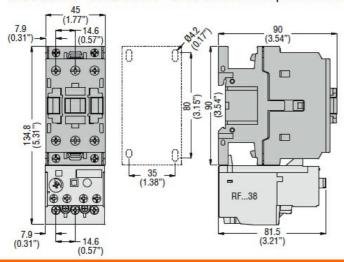
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Full-load current (FLA) for three-phase AC motor

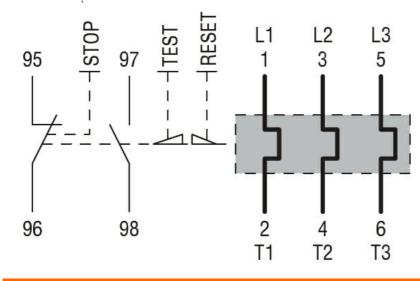
	at 480V	А	18	
	at 600V	А	18	
Dimensions [mm (in)]				
BF00 A., BF09 A., - BF12 A., - BF18 A., - BF25 A., three poles with				



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



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