

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE electric (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 9...14A

**ENERGY AND AUTOMATION** 



Product designation			RF38
Product type designation			Motor protection relay
General characteristics			,
Number of poles		Nr.	3
Overvoltage category			III
Pollution degree			3
Frontal IP degree			IP20
Terminals IP degree			-
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	16
	RK5 (UL)	Α	50
Phase failure detection	,		yes
Position In			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	9
	Operational current max	Α	14
Tripping class	-1		10A
Test Button			yes
Trip indicator			yes
Terminals			you
Tommalo			screw and
	type		washer
	screw		M4
	width	mm	12.6
	tool		Phillips 2
Tightening torque for terminals			· · · · · · · · · · · · · · · · · · ·
Tighterming terique for terminale	min	Nm	2
	max	Nm	2.5
	min	lbin	1.5
	max	Ibin	1.8
Conductor section	IIIdA	10111	1.0
Conductor Sociality	Flexible w/o lug max	mm²	10
	Flexible c/w lug max	mm²	6
	AWG/kcmil max	111111	8
	AVVO/NOTHII IIIdX		



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Auxiliary circuit characteristics			
Auxiliary contacts	NO		
	NO NO	Nr.	1
Auxilian/ Pated inculation voltage Lli IEC/EN	NC	Nr. V	<u>1</u> 690
Auxiliary Rated insulation voltage Ui IEC/EN  Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15		v	090
Operating outlent AO 10	24V	Α	3
	120V	A	3
	240V	A	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	0.6
	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			B600-R300
Ambient conditions			
Operating temperature		0.0	0.5
	min	°C	-25
Character to represent the	max	°C	60
Storage temperature		°C	-50
	min max	°C	-50 70
Compensation temperature	illax	<u> </u>	10
Compensation temperature	min	°C	-20
	max	°C	60
Max altitude	max	 m	3000
Mechanical features			
Operating position			
i ···· Or	normal		Vertical plan
	allowable		±30°
_			Direct mounting
Fixing			on BF09 BF38
Weight		g	160
UL technical data			

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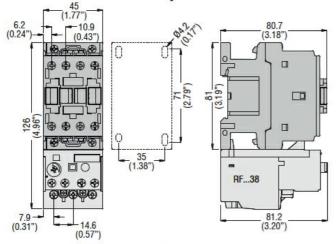
**ENERGY AND AUTOMATION** 

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

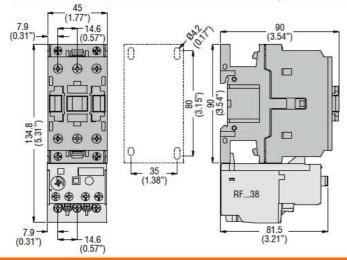
at 480V Α 14 at 600V 14 Α

## **Dimensions**

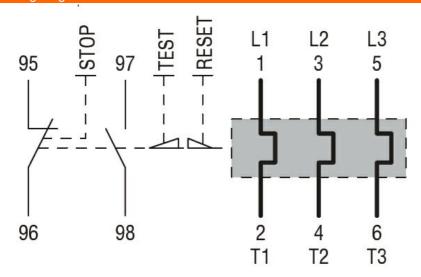
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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



## Wiring diagrams



## Certifications and compliance

## RF381400



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CSA C22.2 n° 14 IEC/EN 60947-1 IEC/EN 60947-4-1 **UL508** 

Certifications

Compliance

CCC cULus EAC

ETIM classification

EC000106 -**ETIM 8.0** Thermal overload relay