

**ENERGY AND AUTOMATION** 

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE electric (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 24...32A



Product designation			RF38 Motor protection
Product type designation			relay
General characteristics			
Number of poles		Nr.	3
Overvoltage category			111
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	40
	RK5 (UL)	Α	120
Phase failure detection			yes
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		V	090
Operational frequency	min	Hz	0
	max	Hz	400
Operational current le	max	1 12	400
Operational current le	Operational current min	Α	24
	Operational current max	A	32
Tripping class	Operational current max		10A
Test Button			yes
Trip indicator			yes
Terminals			you
- Committee			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			



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Auxiliary contacts

Auxiliary contacts			
	NO	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN	NC	Nr. V	690
Auxiliary Rated insulation voltage of IEC/EN  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	A	0.75
	500V	A	0.72
Operating current DC13	600V	Α	0.6
Operating current DC 13	125V	Α	0.11
	600V	A	0.22
IEC Conventional free air thermal current Ith	550 V	A	10
Terminals			
	Auxiliary circuit type		screw and
	•		washer
	Auxiliary circuit screw		M3.5
	Auxiliary circuit width Auxiliary circuit tool	mm	8 Phillips 2
Conductor section	Adxillary circuit tool		Fillips 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	, teramenty encountries and in large mean		
	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	min	°C	0E
	min max	°C	-25 60
Storage temperature	Παλ		00
Otorago temperature	min	°C	-50
	max	°C	70
Compensation temperature			
•	min	°C	-20
	max	°C	60
Max altitude		°C m	60 3000
Mechanical features			
	max		3000
Mechanical features	normal		3000 Vertical plan
Mechanical features	max		3000 Vertical plan ±30°
Mechanical features Operating position	normal		Vertical plan ±30° Direct mounting
Mechanical features	normal		Vertical plan ±30° Direct mounting on BF09
Mechanical features Operating position	normal		Vertical plan ±30° Direct mounting

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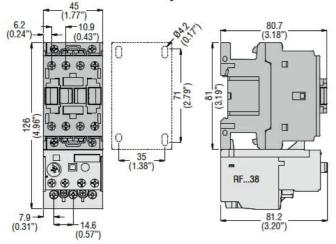
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Full-load current (FLA) for three-phase AC motor

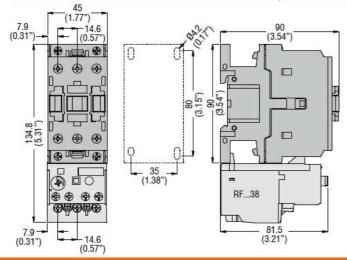
at 480V Α 32 at 600V Α 32

## **Dimensions**

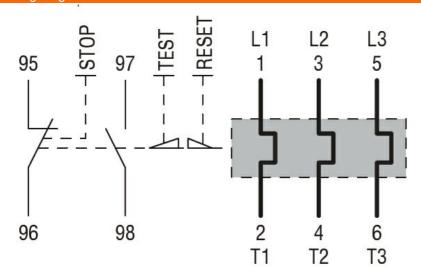
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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



## Wiring diagrams



## Certifications and compliance

## RF383200



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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** Thermal overload relay