**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, 17...23A



Product designation			RF38
Product type designation			Motor protection relay
General characteristics			Tolay
Number of poles		Nr.	3
Overvoltage category			III
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	50
	aM (IEC)	Α	25
	RK5 (UL)	Α	90
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	Α	17
	Operational current max	Α	23
Tripping class			10A
Test Button			Yes
Trip indicator			yes
Terminals			
	type		screw and
	,,,,,		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	Ibin	1.8
Conductor section		_	
	Flexible w/o lug max	mm²	10
	Flexible c/w lug max	mm²	6
K. Branch Co. Roll and Co. Co.	AWG/kcmil max		8
Auxiliary circuit characteristics			



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Addition y contacts			
	NO	Nr.	1
Auxiliant Detail insulation valtage Li IFC/FN	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN  Auxiliary Rated impulse withstand voltage Uimp		V kV	690
Auxiliary Rated impulse withstand voltage of mp  Auxiliary Rated operational voltage		V	690
Operating current AC15		V	090
Operating current AC15	24V	Α	3
	120V	A	3 3
	240V	A	1.5
	380V	A	0.95
	480V	A	0.75
	500V	A	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			
	Accelliance almostic to a		screw and
	Auxiliary circuit type		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	0.59
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			B600-R300
Ambient conditions			
Operating temperature	•.	00	0.5
	min	°C	-25
Storage temperature	max	C	60
Storage temperature		°C	-50
	min max	°C	-50 70
Compensation temperature	IIIdX		10
Compensation temperature	min	°C	-20
	max	°C	60
Max altitude	IIIAX	m	3000
Mechanical features			
Operating position			
operating position	normal		Vertical plan
	allowable		±30°
			Direct mounting
Fixing			on BF09
			BF38
Weight		g	160
UL technical data			

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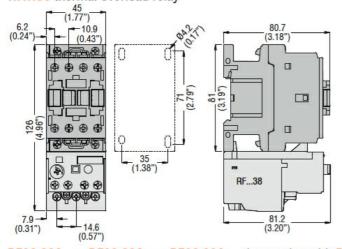
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Full-load current (FLA) for three-phase AC motor

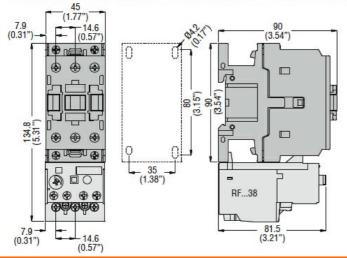
at 480V Α 23 at 600V 23 Α

## **Dimensions**

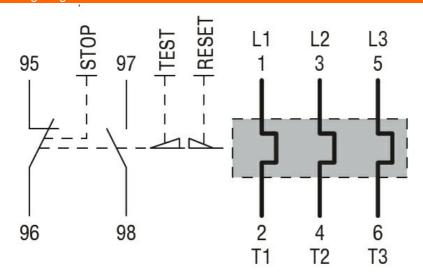
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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



## Wiring diagrams



## Certifications and compliance

## RF382300



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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

**ETIM 8.0** 

EC000106 -

Thermal overload

relay