



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 17...23A



Product designation		120	RFN38
			Motor protection
Product type designation			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)	Α	50
	aM (IEC)	Α	25
	RK5 (UL)	Α	90
Phase failure detection			no
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			
			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	Ibin	1.5
	max	Ibin	1.8
Conductor section			
	AWG/kcmil max		8
Auxiliary circuit characteristics			
Auxiliary contacts			
,	NO	Nr.	1





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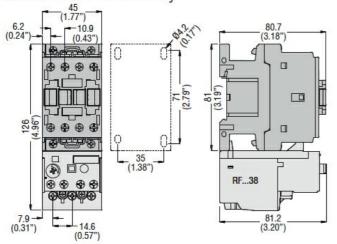
	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN	INC	V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		А	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	0.59
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			B600-R300
Ambient conditions			
Operating temperature			
	min	°C	-25
	max	°C	60
Storage temperature			
	min	°C	-50
0	max	°C	70
Compensation temperature	<u>.</u>	0.0	00
	min	°C	-20
NA 100 . 1 .	max	°C	60
Max altitude		m	3000
Mechanical features			
Operating position			Mantle - Late
	normal		Vertical plan
	allowable		±30°
Fiving			Direct mounting on BF09
Fixing			on BF09 BF38
Weight			160
UL technical data		g	100
Full-load current (FLA) for three-phase AC motor			
. a sad danon (i En) for three-phase no motor	at 480V	Α	23
	at 460V at 600V	A	23
	at 000 V		20

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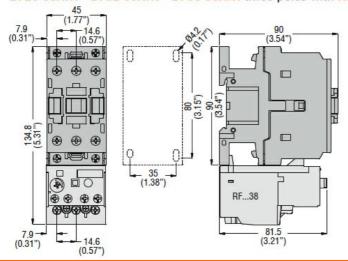
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Dimensions

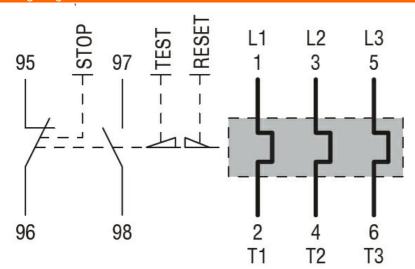
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1



ENERGY AND AUTOMATION

RFN382300

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	IEC/EN 60947-4-1	
	UL508	
Certifications		
	CCC	
	cULus	
	EAC	
ETIM elegaification		

ETIM 8.0

EC000106 -Thermal overload relay