

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE electric (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 1...1.6A

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
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	4
	aM (IEC)	Α	2
	RK5 (UL)	Α	6
Phase failure detection	,		Yes
Decet mede			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	1
	Operational current max	Α	1.6
Tripping class			10A
Test Button			yes
Trip indicator			yes
Terminals			,,,,
Tominale			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	lbin	1.8
Conductor section	IIIdA	10111	1.0
Conductor Section	AWG/kcmil max		8
Auxiliary circuit characteristics	AVVO/KUIIII IIIdX		
Auxiliary contacts			
Addition of the control of the contr	NO	Nr.	1
	NO	I VI.	•

RF380160



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

ENERGY AND AUTOMATION

CONTACTORS, 1...1.6A

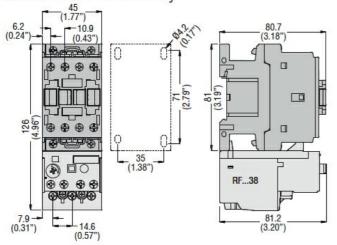
Auxiliary Rated insulation voltage Uir IEC/EN				
Auxiliary Rated impulse withstand voltage Ulmp		NC NC		
Auxiliary Rated operational voltage V 690				
Operating current AC15	<u> </u>			
24V			V	690
120V	Operating current AC15		_	_
A				
Section				
A 80V				
S00V				
Comparising current DC13				
Departing current DC13				
Terminals		600V	Α	0.6
EC Conventional free air thermal current lth	Operating current DC13			
EC Conventional free air thermal current lth			Α	
Auxiliary circuit type Auxiliary circuit totic M3,5 M3,5 Phillips 2		600V		
Auxiliary circuit type	IEC Conventional free air thermal current Ith		Α	10
Auxiliary circuit type Auxiliary circuit type Auxiliary circuit type Auxiliary circuit type M3,5 M3,5	Terminals			
Auxiliary circuit screw Auxiliary circuit twolth Auxiliary circuit Flexible w/o lug max Auxiliary circuit max Auxiliary circuit min Nm 0.8 Auxiliary circuit max Auxiliary circuit min Nm 1 Nm		Auviliany aircuit typa		screw and
Auxiliary circuit width Auxiliary circuit tool		Auxiliary circuit type		washer
Auxiliary circuit tool Phillips 2		Auxiliary circuit screw		M3,5
Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit min Auxiliary circuit min Auxiliary circuit min Ibin O.59 Ibin O.74 Ibin O.74 Ibin O.74 Ibin O.74 Ibin O.74 Ibin O.75 I		Auxiliary circuit width	mm	8
Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit Flexible c/w lug max Auxiliary circuit min Para Para Para Para Para Para Para Par		Auxiliary circuit tool		Phillips 2
Auxiliary circuit Flexible c/w lug max	Conductor section			
Auxiliary circuit min		Auxiliary circuit Flexible w/o lug max	mm²	2.5
Auxiliary circuit min Auxiliary circuit max Auxi		Auxiliary circut Flexible c/w lug max	mm²	2.5
Auxiliary circuit min Auxiliary circuit max Auxi	Tightening torque for terminals			
Auxiliary circuit max Auxiliary circuit min Auxiliary circuit max Nm Ibin 1 standard UL/CSA and IEC/EN 60947-5-1 designation B600-R300 Ambient conditions B600-R300 Operating temperature min °C -25 Storage temperature min °C -50 Storage temperature min °C -50 Compensation temperature min °C -50 Max altitude m 3000 Mechanical features m 3000 Operating position normal allowable ±30° Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data EU-load current (FLA) for three-phase AC motor at 480V A 1.6		Auxiliary circuit min	Nm	0.8
Auxiliary circuit min Auxiliary circuit min Auxiliary circuit min Auxiliary circuit max Ibin 0.74				
Auxiliary circuit max		-		
UL/CSA and IEC/EN 60947-5-1 designation				
Ambient conditions Operating temperature min o C o conditions occording temperature occording t	UL/CSA and IEC/EN 60947-5-1 designation	, , , , , , , , , , , , , , , , , , , ,		
Operating temperature min or c max or c do -25 max or c do Storage temperature min or c do -50 max or c do Compensation temperature min or c do -20 max or c do Max altitude m do 3000 Mechanical features m do 3000 Operating position normal allowable ±30° Fixing Direct mounting on BF09 BF38 Weight g do 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A do 1.6				
min max °C color -25 color Storage temperature min °C color -50 color max °C color 70 Compensation temperature min °C color -20 color Max altitude m color 3000 Mechanical features m color 3000 Mechanical features normal allowable ±30° Vertical plan ±30° Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data g 160 UL technical data at 480V A 1.6				
max °C 60 Storage temperature min max °C -50 max °C 70 Compensation temperature min max °C -20 max °C 60 Max altitude m 3000 Mechanical features w 3000 Operating position normal allowable vertical plan vertical vertical plan vertical vertical vertical plan vertical vert	operating temperature	min	°C.	-25
Storage temperature min max °C -50 max -50 max °C 70 70 Compensation temperature min °C -20 max °C 60 60 Max altitude m 3000 Mechanical features Wetrical plan allowable ±30° Direct mounting on BF09 BF38 Direct mounting on BF09 BF38 Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6 A 1.6				
min max °C 70 Compensation temperature min °C -20 max Max altitude m 3000 Mechanical features m 3000 Operating position normal allowable ±30° Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	Storage temperature	max		
max °C 70 Compensation temperature min °C -20 max °C 60 Max altitude m 3000 Mechanical features Uperating position normal allowable Vertical plan allowable ±30° Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	Ciorago temperaturo	min	°C	-50
Compensation temperature min °C -20 max °C 60 Max altitude m 3000 Mechanical features Operating position normal Vertical plan allowable ±30° Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6				
min °C -20 max °C 60 Max altitude m 3000 Mechanical features Operating position normal vertical plan allowable ±30° Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	Compensation temperature	illax		10
Max altitude m 3000 Mechanical features Vertical plan Operating position normal allowable ±30° Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	Compensation temperature	min	°C	-20
Max altitude m 3000 Mechanical features Operating position normal Vertical plan allowable ±30° Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6				
Mechanical features Operating position normal Vertical plan allowable ±30° Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	May altitude	max		
Operating position normal Vertical plan allowable ±30° Fixing Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6			rm	3000
Fixing Fixing Weight UL technical data Full-load current (FLA) for three-phase AC motor normal allowable				
Fixing Fixing Weight UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	Operating position			Manthaelele
Fixing Direct mounting on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6				
Fixing on BF09 BF38 Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6		allowable		
Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	Finis a			
Weight g 160 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	rixing			
UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 1.6	Weight			
Full-load current (FLA) for three-phase AC motor at 480V A 1.6	_		g	100
at 480V A 1.6				
	Full-load current (FLA) for three-phase AC motor		_	
at 600V A 1.6				
		at 600V	Α	1.6

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE **electric** (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 1...1.6A

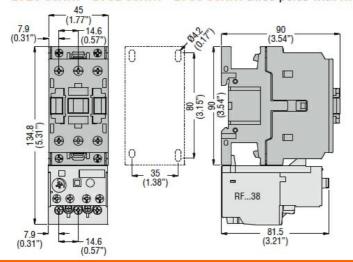
ENERGY AND AUTOMATION

Dimensions

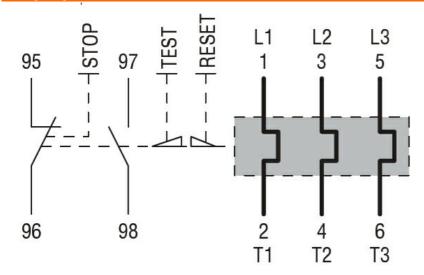
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

RF380160



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, 1...1.6A

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

ETIM classification

ETIM 8.0

EC000106 -Thermal overload relay