# **RF383200**



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 relay RF38 Product type designation RF38 Product type designatin RF38 Product type designation RF38 Produc			Links	Motor protection
Ceneral characteristics       nr. 3         Number of poles       nr. 3         Overvoltage category       III         Pollution degree       3         Frontal IP degree       IP20         Type of release       Thermal         Protection fuse       gG (IEC)       A       63 A         aff (IEC)       A       40 A       RK5 (UL)       A       120 A         Phase failure detection       NO       NO       Reset mode       Manual or automatic         Power circuit characteristics       Operating frequency max       Hz       400 1/s         Operating frequency       Operational current min       A       24 A         Operating current       Operational current min       A       32 A         Tripping class       10A       Test Button       YES         Trip indicator       YES       YES       Trip indicator         Terminals       Screw and washer       screw       M4         Auxiliary cricuit characteristics       NO       nr.       1         Operating current AC15       24V       A       3 A         120V       A       3 A       120V       A         Auxiliary cricuit characteristics       NO       nr.	Product designation			relay
Number of poles         nr.         3           Overvoltage category         III           Pollution degree         3           Frontal IP degree         IP20           Type of release         IP20           Protection fuse         gG (IEC)         A         63 A           aft (IEC)         A         63 A         att (IEC)         A         40 A           RKS (UL)         A         120 A         NO         NO           Phase failure detection         NO         NO         Manual or automatic           Power circuit characteristics         Uperational frequency max         Hz         400 1/s           Operating current         Operational current min         A         24 A           Operational current min         A         24 A           Operational current max         32 A         10A           Test Button         YES         YES           Trip indicator         YES         YES           Terminals         Screw and washer         Screw and washer           Auxiliary circuit characteristics         NO         nr.         1           Operating current AC15         NO         nr.         1           Operating current AC15         24V				RF38
Overvoltage category         III           Pollution degree         3           Frontal IP degree         IP20           Type of release         Thermal           Protection fuse         gG (IEC)         A         63 A           aff (IEC)         A         40 A         RK5 (UL)         A         120 A           Phase failure detection         NO         RK5 (UL)         A         120 A           Phase failure detection         NO         Manual or automatic         automatic           Power circuit characteristics         Operational frequency max         Hz         400 1/s           Operating current         Operational current min         A         22 A           Tripping class         10A         Test Button         YES           Trip indicator         YES         YES         Trip indicator         YES           Trip indicator         YES         Screw and washer         washer           Screw         M4         tool         Phillips 2           Conductor section         AWG max         8         Auxiliary contacts           Muxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A <t< td=""><td></td><td></td><td></td><td></td></t<>				
Pollution degree         3           Frontal IP degree         IP20           Type of release         Thermal           Protection fuse         gG (IEC)         A         63 A           aM (IEC)         A         40 A         RK5 (UL)         A         120 A           Phase failure detection         NO         NO         Reset mode         Manual or automatic           Power circuit characteristics         Operational frequency max         Hz         400 1/s           Operating frequency         Operational current min         A         22 A           Tripping class         10A         32 A         10A           Test Button         YES         YES         YES           Terminals         type         Screw and washer         washer           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           240V			nr.	
Frontal IP degree         IP20           Type of release         Thermal           Protection fuse         gG (IEC)         A         63 A           aM (IEC)         A         40 A         120 A           Phase failure detection         NO         NO           Reset mode         Manual or automatic         NO           Power circuit characteristics         Operational frequency max         Hz         400 1/s           Operating requency         Operational current min         A         24 A           Operational current min         A         24 A         32 A           Tripping class         10A         10A         128 S           Trip indicator         YES         YES         10A           Test Button         YES         YES         10A           Test Button         YES         Screw and washer washer washer washer screw         M4           tool         Philips 2         Conductor section         AWG max         8           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A         240V         A           Auxiliary contacts				
Type of release       Thermal         Protection fuse       gG (IEC)       A       63 A         atM (IEC)       A       40 A         RK5 (UL)       A       120 A         Phase failure detection       NO         Reset mode       Manual or automatic         Power circuit characteristics       Operating frequency max       Hz       400 1/s         Operating frequency       Operational frequency max       Hz       400 1/s         Operating current       Operational current min       A       24 A         Operational current max       A       32 A         Tripping class       10A       YES         Trip indicator       YES       YES         Terminals       tool       Phillips 2         Conductor section       AWG max       8         Auxiliary circuit characteristics       NO       nr.         Auxiliary contacts       NO       nr.       1         Operating current AC15       24V       A       3 A         240V       A       3 A       240V       A       3 A         240V       A       3 A       240V       A       3 A         240V       A       3 A       240V				
Protection fuse         gG (IEC)         A         63 A           aM (IEC)         A         40 A           RK5 (UL)         A         120 A           Phase failure detection         NO           Reset mode         Manual or automatic           Power circuit characteristics         Manual or automatic           Operating frequency         Operational frequency max           Hz         400 1/s           Operational current min         A           24 A         Operational current min           A         32 A           Tripping class         10A           Test Button         YES           Trip indicator         YES           Terminals         Screw and washer           screw         M4           tool         Phillips 2           Conductor section         AWG max         8           Auxiliary contacts         NO         nr.           NC         nr.         1           Operating current AC15         24V         A           24V         A         3 A           240V         A         3 A           240V         A         3 A           240V         A         3				
gG (IEC)         A         63 A           aM (IEC)         A         40 A           RK5 (UL)         A         120 A           Phase failure detection         NO           Reset mode         Manual or automatic           Power circuit characteristics         Manual or automatic           Operating frequency         Operational frequency max         Hz         400 1/s           Operating current         Operational current min A         24 A         24 A           Operational current max         A         32 A         10A           Tripping class         10A         Test Button         YES           Trip indicator         YES         Screw and washer           screw         M4         washer           screw         M4         WG max         8           Auxiliary circuit characteristics         Auxiliary circuit characteristics         Auxiliary circuit characteristics           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3A           120V         A         3A         240V         A         3A           120V         A         3A         240V         A         3A				Thermal
aM (IEC)         A         40 A           RK5 (UL)         A         120 A           Phase failure detection         NO           Reset mode         Manual or automatic           Power circuit characteristics         Operating frequency max         Hz         400 1/s           Operating current         Operational current min A         A         24 A           Operating current         Operational current max         A         32 A           Tripping class         10A         Test Button         YES           Trip indicator         YES         YES           Trip indicator         YES         Screw and washer           screw         M4         tool         Phillips 2           Conductor section         AWG max         8           Auxiliary circuit characteristics         NO         nr.         1           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           240V         A         1.5 A         380V         A         0.95 A           4480V         A         0.75 A         380V         A         0.95 A	Protection fuse			
RK5 (UL)       A       120 A         Phase failure detection       NO         Reset mode       Manual or automatic         Power circuit characteristics       Operational frequency max       Hz       400 1/s         Operating current       Operational current min       A       24 A         Operational current max       A       32 A       Tripping class         Tripping class       10A       Test Button       YES         Trip indicator       YES       YES         Terminals       type       Screw and washer screw         M4       tool       Phillips 2         Conductor section       AWG max       8         Auxiliary contacts       NO       nr.         Qperating current AC15       24V       A         Querter AC15       24V       A         Auxiliary contacts       24V       A         Auxiliary contacts       24V       A         Querter AC15       24V       A         Auxiliary Contacts       24V       A         Auxiliary contacts       24V       A         Auxiliary contacts       3A       3A         Auxiliary contacts       3A       3A         Auxiliary contacts				
Phase failure detection       NO         Reset mode       Manual or automatic         Power circuit characteristics       automatic         Operating frequency       Operational frequency max       Hz       400 1/s         Operating current       Operational current min       A       24 A         Operational current max       A       32 A         Tripping class       10A       YES         Trip indicator       YES       YES         Terminals       type       Screw and washer         screw       M4       M4         Conductor section       AWG max       8         Auxiliary contacts       NO       nr.       1         Operating current AC15       24V       A       3 A         120V       A       3 A       120V       A       3.6         480V       A       0.75 A       360V       A       0.75 A         500V       A       0.75 A       500V       A       0.6 A		. ,		
Reset mode       Manual or automatic         Power circuit characteristics       Operating frequency         Operating frequency       Operational frequency max       Hz       400 1/s         Operating current       Operational current min       A       24 A         Operational current min       A       32 A         Tripping class       10A         Test Button       YES         Trip indicator       YES         Terminals       Screw and washer         screw       M4         tool       Phillips 2         Conductor section       AWG max       8         Auxiliary circuit characteristics       NO       nr.       1         Operating current AC15       24V       A       3 A         120V       A       3 A       120V       A       3.6         240V       A       1.5 A       380V       A       0.95 A         480V       A       0.75 A       500V       A       0.75 A		RK5 (UL)	A	
Reset mode       automatic         Power circuit characteristics       Operational frequency max       Hz       400 1/s         Operating current       Operational current min Operational current max       A       32 A         Tripping class       10A       Test Button       YES         Test Button       YES       YES         Trip indicator       YES       YES         Terminals       type       Screw and washer washer washer         Screw       M4       tool         tool       Phillips 2       Conductor section         Auxiliary circuit characteristics       NO       nr.         Auxiliary contacts       NO       nr.       1         Operating current AC15       24V       A       3A         240V       A       3.A       240V       A       3.A         240V       A       1.5 A       380V       A       0.95 A         3600V       A       0.75 A       500V       A       0.75 A	Phase failure detection			
automatic           Power circuit characteristics           Operating frequency         Operational frequency max         Hz         400 1/s           Operating current         Operational current min Operational current max         A         24 A           Operational current max         A         32 A         10A           Test Button         YES         10A           Test Button         YES         YES           Trip indicator         YES         YES           Terminals         type         Screw and washer           screw         M4         M4           tool         Phillips 2         Conductor section           Awxiliary circuit characteristics         NO         nr.         1           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A         240V         A         1.5 A           380V         A         0.95 A         480V         A         0.75 A           500V         A         0.75 A         500V         A         0.6 A	Reset mode			
Operating frequency         Operational frequency max         Hz         400 1/s           Operating current         Operational current min         A         24 A           Operational current max         A         32 A           Tripping class         10A           Test Button         YES           Trip indicator         YES           Terminals         Screw and washer           type         Screw and washer           screw         M4           tool         Phillips 2           Conductor section         AWG max         8           Auxiliary circuit characteristics         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A         240V         A         3 A           120V         A         3 A         240V         A         3 A           120V         A         3 A         240V         A         15 A           380V         A         0.95 A         380V         A         0.75 A           480V         A         0.72 A         600V         A         0.6 A				automatic
Operational frequency max         Hz         400 1/s           Operating current         Operational current min         A         24 A           Operational current min         A         32 A           Tripping class         10A           Test Button         YES           Terminals         YES           terminals         Screw and washer           screw         M4           tool         Phillips 2           Conductor section         AWG max         8           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A         240V         A         3 A           120V         A         3 A         240V         A         1.5 A           380V         A         0.95 A         380V         A         0.75 A           480V         A         0.75 A         500V         A         0.72 A				
Operating current       Operational current min Operational current min A       A       24 A         Tripping class       10A         Test Button       YES         Trip indicator       YES         Terminals       Screw and washer         type       Screw and washer         screw       M4         tool       Phillips 2         Conductor section       AWG max         Auxiliary circuit characteristics       Auxiliary circuit characteristics         Auxiliary contacts       NO         NO       nr.         Operating current AC15       24V         24V       A       3 A         240V       A       1.5 A         380V       A       0.95 A         480V       A       0.75 A         500V       A       0.72 A         600V       A       0.6 A	Operating frequency			
Operational current min Operational current max         A         24 A           A         32 A           Tripping class         10A           Test Button         YES           Trip indicator         YES           Terminals         Screw and washer           type         Screw and washer           screw         M4           tool         Phillips 2           Conductor section         A           Auxiliary circuit characteristics         8           Auxiliary contacts         NO           NC         nr.         1           Operating current AC15         24V         A         3 A           240V         A         3 A         120V         A         3 A           380V         A         0.95 A         380V         A         0.95 A           480V         A         0.75 A         500V         A         0.72 A	-	Operational frequency max	Hz	400 1/s
Operational current max         A         32 A           Tripping class         10A           Test Button         YES           Trip indicator         YES           Terminals         Screw and washer           type         Screw and washer           screw         M4           tool         Phillips 2           Conductor section         AWG max         8           Auxiliary circuit characteristics         NO         nr.         1           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           240V         A         3 A         240V         A         3 A           240V         A         0.95 A         380V         A         0.95 A           380V         A         0.75 A         500V         A         0.72 A           600V         A         0.66 A         0.66 A         0.66 A	Operating current			
Tripping class         10A           Test Button         YES           Trip indicator         YES           Terminals         type         Screw and washer           screw         M4           tool         Phillips 2           Conductor section         AWG max         8           Auxiliary circuit characteristics         Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A         120V         A         3 A           240V         A         1.5 A         380V         A         0.95 A         480V         A         0.75 A           500V         A         0.75 A         500V         A         0.72 A         600V         A         0.6 A				
Test Button       YES         Trip indicator       YES         Terminals       type       Screw and washer         screw       M4         tool       Phillips 2         Conductor section       AWG max       8         Auxiliary circuit characteristics       Auxiliary contacts       NO       nr.       1         Operating current AC15       24V       A       3 A       120V       A       3 A         240V       A       1.5 A       380V       A       0.95 A       480V       A       0.75 A         500V       A       0.75 A       500V       A       0.72 A       600V       A       0.6 A		Operational current max	Α	
Trip indicator         YES           Terminals         type         Screw and washer           screw         M4           tool         Phillips 2           Conductor section         AWG max         8           Auxiliary circuit characteristics         Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A         120V         A         3 A           240V         A         1.5 A         380V         A         0.95 A         480V         A         0.75 A           500V         A         0.72 A         600V         A         0.6 A         1.5 A	Tripping class			
Terminals type Screw and washer screw M4 tool Phillips 2 Conductor section AWG max 8 Auxiliary circuit characteristics Auxiliary contacts NO nr. 1 NC nr. 1 Operating current AC15 24V A 3 A 120V A 3 A 120V A 3 A 120V A 3 A 240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.72 A 600V A 0.6 A	Test Button			
typeScrew and washerscrewM4toolPhillips 2Conductor sectionAWG max8Auxiliary circuit characteristics8Auxiliary contactsNOnr.1NCnr.1Operating current AC1524VA3 A120VA3 A120VA3 A240VA1.5 A380VA0.95 A480VA0.75 A500VA0.72 A600VA0.6 A	Trip indicator			YES
type         washer           screw         M4           tool         Phillips 2           Conductor section         AWG max         8           Auxiliary circuit characteristics         NO         nr.         1           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A         240V         A         1.5 A           380V         A         0.95 A         480V         A         0.75 A           500V         A         0.72 A         600V         A         0.6 A	Terminals			
waster         waster           screw         M4           tool         Phillips 2           Conductor section         AWG max         8           Auxiliary circuit characteristics         8           Auxiliary contacts         NO         nr.         1           Operating current AC15         NO         nr.         1           Querting current AC15         24V         A         3 A           240V         A         1.5 A         380V         A         0.95 A           480V         A         0.75 A         500V         A         0.72 A           600V         A         0.6 A         1.5 A         1.5 A         1.5 A		type		
tool         Phillips 2           Conductor section         AWG max         8           Auxiliary circuit characteristics         8           Auxiliary contacts         NO         nr.         1           NC         nr.         1         NC           Operating current AC15         24V         A         3 A           120V         A         3 A         240V         A         1.5 A           380V         A         0.95 A         480V         A         0.75 A           500V         A         0.72 A         600V         A         0.6 A		туре		
AWG max         8           Auxiliary circuit characteristics         Auxiliary contacts           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A           240V         A         1.5 A           380V         A         0.95 A           480V         A         0.75 A           500V         A         0.72 A           600V         A         0.6 A		screw		
AWG max         8           Auxiliary circuit characteristics         Auxiliary contacts           Auxiliary contacts         NO         nr.         1           NC         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A           240V         A         1.5 A           380V         A         0.95 A           480V         A         0.75 A           500V         A         0.72 A           600V         A         0.6 A		tool		Phillips 2
Auxiliary circuit characteristics           Auxiliary contacts           NO         nr.         1           NC         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A           240V         A         1.5 A           380V         A         0.95 A           480V         A         0.75 A           500V         A         0.72 A           600V         A         0.6 A	Conductor section			
Auxiliary contacts       NO       nr.       1         NC       nr.       1         Operating current AC15       24V       A       3 A         120V       A       3 A         240V       A       1.5 A         380V       A       0.95 A         480V       A       0.75 A         500V       A       0.72 A         600V       A       0.6 A		AWG max		8
NO         nr.         1           NC         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A           240V         A         1.5 A           380V         A         0.95 A           480V         A         0.75 A           500V         A         0.72 A           600V         A         0.6 A				
NC         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A           240V         A         1.5 A           380V         A         0.95 A           480V         A         0.75 A           500V         A         0.72 A           600V         A         0.6 A	Auxiliary contacts			
Operating current AC15 24V A 3 A 120V A 3 A 240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.72 A 600V A 0.6 A			nr.	1
24V A 3 A 120V A 3 A 240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.72 A 600V A 0.6 A		NC	nr.	1
120V A 3 A 240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.72 A 600V A 0.6 A	Operating current AC15			
240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.72 A 600V A 0.6 A		24V	А	
380V A 0.95 A 480V A 0.75 A 500V A 0.72 A 600V A 0.6 A			А	
480V A 0.75 A 500V A 0.72 A 600V A 0.6 A			А	1.5 A
500V A 0.72 A 600V A 0.6 A			А	0.95 A
600V A 0.6 A			А	
			А	
		600V	Α	0.6 A

### Operating current DC13

RF383200



ova ENERGY AND AUTOMATION

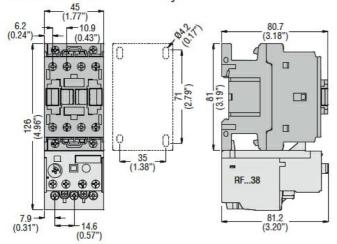
MOTOR PROTECTION RELAY, PHASE FAILURE / SINGLE PHASE SENSITIVE. THREE POLE electric (THREE PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 24...32A

	125V	Α	0.11 A
	600V	Α	0.22 A
Conventional free air thermal current Ith		А	10 A
Terminals			
	type		Screw and washer
	screw		M3,5
	tool		Phillips 2
UL/CSA and IEC/EN 60947-5-1 designation			B600-R300
Ambient conditions			
Max altitude		m	3000
Mechanical feautures			
Operating position			
	normal allowable		Vertical plan ±30°
Weight		g	0.16 kg
UL technical data		-	· · · ·
Full-load current (FLA) for three-phase AC motor			
	at 480V	А	32 A
	at 600V	А	32 A

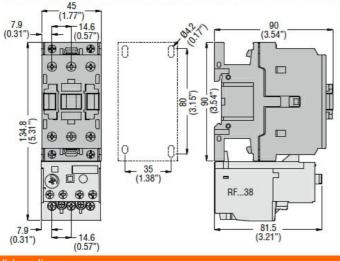
## Dimensions



RF...38 thermal overload relay



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



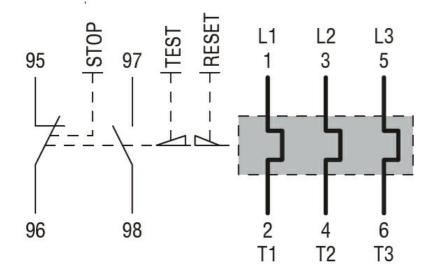
### Wiring diagrams

RF383200

# **RF383200**



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, 24...32A



### Certifications and compliance

Compliance

Certifications

CSA C22.2 n° 14
IEC/EN 60947-1
IEC/EN 60947-4-1
UL508
CCC
cULus
EAC