# RF382500



MOTOR PROTECTION RELAY, PHASE FAILURE / SINGLE PHASE SENSITIVE. THREE POLE **Electric** (THREE PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 AND AUTOMATION CONTACTORS, 20...25A



Floated designation         relay           Product type designation         RF38           Geheral characteristics         III           Number of poles         nr.         3           Overvoltage category         III           Pollution degree         3           Frontal IP degree         IP20           Type of release         Thermal           Protection fuse         gG (IEC)         A         50 A           adM (IEC)         A         32 A           Phase failure detection         A         100 A           Phase failure detection         Manual or         automatic           Power circuit characteristics         Manual or         automatic           Operational frequency max         Hz         400 1/s           Operational current min         A         20 A           Operational current min         YES         Tripping class           Tripping class         10A         YES           Terminals         YP         Screw and washer           screw         M4<	Product designation		1.000	Motor protection
General 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         50 A           adM (IEC)         A         32 A         RK5 (UL)         A         100 A           Phase failure detection         NO         Manual or automatic         automatic         Manual or automatic           Power circuit characteristics         Operational frequency max         Hz         400 1/s         400 1/s           Operating current         Operational current min         A         20 A         20 A           Operational current min         A         20 A         20 A         20 A           Operational current min         A         20 A         20 A         20 A         20 A           Operational current min         A         20 A	-			
Number of poles         nr.         3           Overvoltage category         III           Pollution degree         3           Frontal IP degree         IP20           Type of release         IP20           Protection fuse         gG (IEC)         A         50 A           aM (IEC)         A         50 A         adm (IEC)         A         32 A           RKS (UL)         A         100 A         Phase failure detection         NO         Manual or automatic           Power circuit characteristics         Operational frequency max         Hz         400 1/s         Operational current min         A         20 A           Operational current min         A         20 A         Operational current min         A         20 A           Operational current max         A         25 A         Tripping class         10A         Test Button         YES         YES           Terminals         type         Screw and washer washer         screw M4         washer           Screw indicator         YES         YES         Test Button         Phillips 2           Conductor section         AWG max         8         Auxiliary circuit characteristics         A           Auxiliary cincuit characteristics	,, <b>v</b>			RF38
Overvoltage category         III           Pollution degree         3           Frontal IP degree         IP20           Type of release         Thermal           Protection fuse         gG (IEC)         A         50 A           aM (IEC)         A         32 A         RK5 (UL)         A         100 A           Phase failure detection         NO         RK5 (UL)         A         100 A           Power circuit characteristics         Manual or automatic         automatic           Operating frequency         Operational frequency max         Hz         400 1/s           Operating frequency         Operational current min         A         25 A           Tripping class         10A         10A         10A           Test Button         YES         YES         Screw md           Trip indicator         YES         Screw md         washer           Auxiliary circuit characteristics         Auxiliary circuit characteristics         Auxiliary circuit characteristics           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           240V         A         3 A         120V         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         50 A           aff (IEC)         A         32 A         RK5 (UL)         A         100 A           Phase failure detection         NO         NO         Reset mode         Manual or automatic           Power circuit characteristics         Operational frequency max         Hz         400 1/s         Operating current in A         20 A           Operating current         Operational current min         A         25 A         Tripping class         100 A           Tripping class         100 A         YES         Trip indicator         YES         YES           Trip indicator         YES         Trip indicator         YES         Screw and washer           Screw         M4         tool         Phillips 2         Conductor section           Auxiliary circuit characteristics         NO         nr.         1           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           240V         A         3 A         240V         A         1.5 A <td></td> <td></td> <td>nr.</td> <td></td>			nr.	
Frontal IP degree       IP20         Type of release       Thermal         Protection fuse       gG (IEC)       A       50 A         aM (IEC)       A       32 A       RK5 (UL)       A       100 A         Phase failure detection       NO       NO       NO         Reset mode       Manual or automatic       Monotic       Monotic         Power circuit characteristics       Operational frequency max       Hz       400 1/s         Operating current       Operational current min A       20 A       25 A         Tripping class       10A       Test Button       YES       10A         Test Button       YES       YES       Screw and washer width         Ktype       Screw and washer width       Md       Washer width         Auxiliary contacts       NO       nr.       1         Operating current AC15       24V       A       3A         120V       A       3A       120V       A         Auxiliary contacts       NO       nr.       1         Operating current AC15       24V       A       3A         240V       A       3A       120V       A       3A         240V       A       3A				
Type of release       Thermal         Protection fuse       gG (IEC)       A       50 A         aM (IEC)       A       32 A         RK5 (UL)       A       100 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       25 A       25 A         Tripping class       10A       10A       10A         Test Button       YES       YES       10A         Terminals       type       Screw and washer       screw         Voluctor section       AWG max       8       4         Auxiliary concuts       NO       nr.       1         Operating current AC15       24V       A       3 A         120V       A       3 A       240V       A       3 A				
Protection fuse         gG (IEC) AM (IEC) RK5 (UL)         A         50 A S2 A S2 A RK5 (UL)         A         100 A           Phase failure detection         NO         NO         NO         NO           Reset mode         Manual or automatic         Manual or automatic         NO         NO           Power circuit characteristics         Operational frequency max         Hz         400 1/s         NO           Operating frequency         Operational current min Operational current max         A         25 A         10A           Test Button         YES         10A         YES         10A           Test Button         YES         Screw and washer         Screw and washer           Screw         M4         tool         Phillips 2           Conductor section         AWG max         8         A           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A         240V         A         3 A           120V         A         3 A         380V         A         0.75 A           380V         A         0.75 A         380V         A         0.75 A				
gG (IEC) aM (IEC) (R5 (UL)         A         50 A           Phase failure detection         NO           RK5 (UL)         A         100 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 Operational current max         A         25 A           Tripping class         10A         10A         10A           Test Button         YES         YES         10A           Trip indicator         YES         YES         10A           Test Button         YES         YES         10A           Conductor section         WG max         8         400           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A         240V         A         3 A				Thermal
A 32 A RK5 (UL) A 100 A Phase failure detection NO Reset mode NO Reset mode NO Power circuit characteristics Operating frequency Max Hz 400 1/s Operational current min A 20 A Operational current min A 20 A Operational current max A 25 A Tripping class 10A Test Button YES Trip indicator YES Trip indicator YES Trip indicator YES Terminals type Screw M4 tool Phillips 2 Conductor section AWG max 8 Auxiliary circuit characteristics NO nr. 1 Operating current AC15 24V A 3A 120V A 3A 240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.75 A 500V A 0.75 A	Protection fuse		_	
RKS (UL)         A         100 A           Phase failure detection         NO           Reset mode         Manual or automatic           Power circuit characteristics            Operating frequency         Operational frequency max         Hz         400 1/s           Operating current         Operational current min         A         20 A           Operational current min         A         25 A         Tripping class         10A A           Test Button         YES         YES         YES           Trip indicator         YES         YES           Terminals         Screw and washer         screw           M4         tool         Phillips 2           Conductor section         AWG max         8           Axiliary circuit characteristics         NO         nr.           Auxiliary contacts         24V         A         3 A           120V         A         3 A         240V         A         3.6           240V         A         1.5 A         380V         A         0.95 A         380V         A         0.95 A				
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       20 A         Operational current max       A       25 A         Tripping class       10A       10A         Test Button       YES       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       3.6         240V       A       3.6       240V       A       0.95 A         380V       A       0.95 A       380V       A       0.95 A         480V       A       0.75 A       500V       A       0.72 A		. ,		
Reset mode       Manual or automatic         Power circuit characteristics       Operational frequency max       Hz       400 1/s         Operating current       Operational current min       A       20 A         Operational current min       A       25 A       Tripping class         Tripping class       10A       YES         Trip indicator       YES       YES         Terminals       type       Screw and washer         screw       M4       M4         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 A         380V       A       0.95 A       480V       0.75 A         600V       A       0.75 A       500V       A       0.72 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     20 A       Operational current max     A     25 A       Tripping class     10A       Test Button     YES       Trip indicator     YES       Terminals     Vype       Screw and washer       type     Screw and washer       tool     Phillips 2       Conductor section     AWG max       Auxiliary circuit characteristics     NO       Auxiliary contacts     NO       Operating current AC15     24V       A     3 A       120V     A       380V     A       480V     0.95 A       480V     0.75 A       500V     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         20 A           Operational current max         A         25 A         10A           Tripping class         10A         YES           Trip indicator         YES         YES           Terminals         type         Screw and washer           screw         M4         M4           tool         Phillips 2         Conductor section           AwG max         8         A           Auxiliary circuit characteristics         NO         nr.           Auxiliary contacts         NO         nr.         1           Operating current AC15         24V         A         3 A           120V         A         3 A         120V         A         3 A           120V         A         3 A         380V         A         0.95 A           480V         A         0.75 A         500V         A         0.75 A	Reset mode			
Operating frequency         Hz         400 1/s           Operating current         Operational current min         A         20 A           Operational current min         A         25 A         Tripping class         10A           Test Button         YES         YES         Trip indicator         YES           Terminals         type         Screw and washer         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         1.5 A           380V         A         0.95 A         480V         A         0.75 A				automatic
Operational frequency max         Hz         400 1/s           Operating current         Operational current min Operational current min A         20 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           220V         A         3.6         380V         A         0.95 A           480V         A         0.75 A         500V         A         0.72 A				
Operating current       Operational current min Operational current max       A       20 A         Tripping class       10A         Test Button       YES         Trip indicator       YES         Terminals       type         & VES       Screw and washer         screw       M4         tool       Phillips 2         Conductor section       AWG max       8         Auxiliary circuit characteristics       Auxiliary contacts       1         Operating current AC15       24V       A       3 A         240V       A       3 A       240V       A       0.95 A         380V       A       0.95 A       380V       A       0.75 A         300V       A       0.75 A       500V       A       0.72 A	Operating frequency	<b>.</b>		
Operational current min Operational current max         A         20 A           Tripping class         10A           Test Button         YES           Trip indicator         YES           Terminals         type           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           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 maxA25 ATripping class10ATest ButtonYESTrip indicatorYESTerminalstype& Screw and washerbtoolPhillips 2Conductor sectionAAuxiliary circuit characteristicsAuxiliary contactsNOnr.nr.1Operating current AC1524VA24VA24VA380VA0.95 A480VA0.95 A480VA0.95 A480VA0.75 A500VA0.72 A	Operating current			
Tripping class       10A         Test Button       YES         Trip indicator       YES         Terminals       type         screw       M4         tool       Phillips 2         Conductor section       AWG max         Auxiliary circuit characteristics       Auxiliary contacts         NO       nr.       1         Operating 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				
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 circuit characteristics         Auxiliary contacts       NO       nr.       1         Operating current AC15       24V       A       3 A         240V       A       3.A       240V       A       3.A         240V       A       1.5 A       380V       A       0.95 A         480V       A       0.75 A       500V       A       0.72 A		Operational current max	A	
Trip indicator       YES         Terminals       type       Screw and washer         screw       M4         tool       Phillips 2         Conductor section       AWG max       8         Auxiliary circuit characteristics       AWG max       8         Auxiliary contacts       NO       nr.       1         Operating current AC15       24V       A       3 A         240V       A       3.5       240V       A       1.5 A         380V       A       0.95 A       480V       A       0.75 A         500V       A       0.72 A       3       3				
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 240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.72 A				
typeScrew and washerscrewM4toolPhillips 2Conductor sectionAWG max8Auxiliary circuit characteristicsNOnr.1Auxiliary contactsNOnr.1Operating current AC1524VA3 A120VA3 A120VA3 A240VA1.5 A380VA0.95 A480VA0.75 A500VA0.72 A	Trip indicator			YES
type 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 240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.72 A	Terminals			
washer     washer       screw     M4       tool     Phillips 2       Conductor section     AWG max     8       Auxiliary circuit characteristics     Auxiliary contacts     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		type		
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		type		
AwG max         8           Auxiliary circuit characteristics         Auxiliary contacts           Auxiliary contacts         NO         nr.         1           NC         nr.         1           Operating current AC15         24V         A         3 A           240V         A         3 A           240V         A         1.5 A           380V         A         0.95 A           480V         A         0.75 A           500V         A         0.72 A		screw		
AWG max         8           Auxiliary circuit characteristics         NO         nr.         1           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		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	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		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				
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	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			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		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	Operating current AC15			
240V A 1.5 A 380V A 0.95 A 480V A 0.75 A 500V A 0.72 A			А	
380V A 0.95 A 480V A 0.75 A 500V A 0.72 A			А	
480V A 0.75 A 500V A 0.72 A			А	1.5 A
500V A 0.72 A			А	0.95 A
		480V	А	0.75 A
600V A 0.6 A		500V	А	0.72 A
		600V	Α	0.6 A

### Operating current DC13

RF382500



ova ENERGY AND AUTOMATION

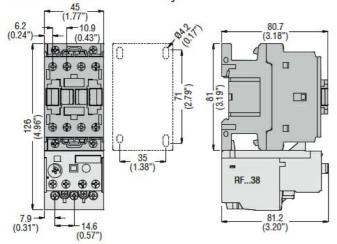
MOTOR PROTECTION RELAY, PHASE FAILURE / SINGLE PHASE SENSITIVE. THREE POLE electric (THREE PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 20...25A

	125V	А	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	25 A
	at 600V	А	25 A

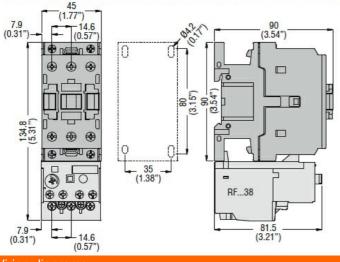
## Dimensions



RF...38 thermal overload relay



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



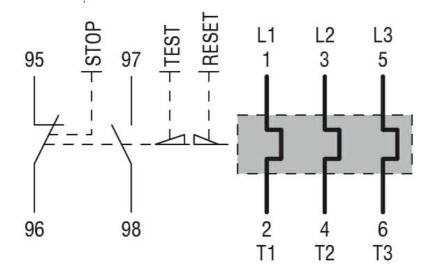
### Wiring diagrams

RF382500

# **RF382500**



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, 20...25A



### Certifications and compliance

Compliance

Certifications

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