

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE electric (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 0.63...1A

ENERGY AND AUTOMATION



Product type designation Motor protection relay	Product designation			RF38
Mumber of poles Nr. 3 1 1 1 1 1 1 1 1 1	Product type designation			•
III Pollution degree 3 3 7 7 7 7 7 7 7 7	General characteristics			·
Pollution degree 3 1P20 1P20	Number of poles		Nr.	3
Protection fuse	Overvoltage category			III
Type of release	Pollution degree			3
Protection fuse	Frontal IP degree			IP20
BG (IEC)				Thermal
Manual or automatic Manual or automatic	Protection fuse			
Phase failure detection			Α	
Phase failure detection yes Reset mode Manual or automatic Power circuit characteristics Wanual or automatic 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 Operational current max A 1 0 Operational current max A 1 1 Tripping class 10A 1 2 1 1 1 1 1 1 1 1 <th< td=""><td></td><td>· · ·</td><td>Α</td><td></td></th<>		· · ·	Α	
Manual or automatic		RK5 (UL)	Α	3
Reset mode Power circuit characteristics Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimpulse withstand voltage Uimpulse withstand voltage Uimpulse withstand voltage V 690 Rated operational frequency min Hz 0 690 Operational frequency Max Hz 400 Operational current le Operational current min Operational Current	Phase failure detection			
Power circuit characteristics	Reset mode			
Rated impulse withstand voltage No No No No No No No N	Power circuit characteristics			
Rated operational voltage V 690	Rated insulation voltage Ui IEC/EN		V	690
Min max	Rated impulse withstand voltage Uimp		kV	6
Min max Hz hz Hz Hz 00 max Hz Hz Hz 400 Operational current le Operational current min Max Hz	Rated operational voltage		V	690
max Hz 400 Operational current max A 0.63 Operational current max A 1 Tripping class 10A Test Button Yes Trip indicator yes Terminals type Screw and washer screw M4 width mm 12.6 Phillips 2 Tightening torque for terminals min Nm 2 max Nm 2.5 min lbin 1.5 min lbin 1.5 min lbin 1.8 Conductor section Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8 8	Operational frequency			
Operational current le Operational current min Operational current min Operational current max A 1 Tripping class 10A Test Button Yes Trip indicator yes Terminals type screw and washer screw width width width tool Fightening torque for terminals min Nm 12.6 Phillips 2 Tightening torque for terminals min Nm 2 Amax Nm 2.5 Nm 2		min	Hz	0
Operational current min A 1 0.63 A 1 Tripping class 10A Test Button Yes Trip indicator yes Terminals type screw and washer Screw width width tool M4 width tool Phillips 2 Tightening torque for terminals min Nm 2 Ammax Nm 2.5 Ammax Nm 2.5 Ammax Nm 2.5 Ammax Nm 10bin 1.5 Ammax Nm 10bin 1.5 Ammax Nm 10bin 1.8 Conductor section Flexible w/o lug max Flexible c/w lug max Nmm² 6 Amm² 6 Amg/kcmil max 8 Amm² 6 Amg/kcmil max 8		max	Hz	400
Tripping class 10A Test Button Yes Trip indicator yes Terminals type screw and washer screw width width tool mm 12.6 phillips 2 Tightening torque for terminals min Nm 2 max Nm 2.5 min lbin 1.5 max lbin 1.5 max lbin 1.8 1.5 max lbin 1.8 Conductor section Flexible w/o lug max Flexible c/w lug max AWG/kcmil max 8 mm² 6 mm² 6	Operational current le			
Tripping class 10A Test Button Yes Trip indicator yes Terminals type screw and washer screw width width tool M4 width tool Phillips 2 Tightening torque for terminals min Nm 2 2 max Nm 2.5 min lbin 1.5 max lbin 1.5 max lbin 1.8 Conductor section Flexible w/o lug max mx mm² 10 flexible c/w lug max mm² 6 amp² 8 mm² 6 amp² 6 amp² 6 amp² 8 mm² 6 amp² 8 amp² 6 amp² 8 amp² 8 amp² 8 amp² 6 amp² 8 amp² 6 amp² 8 amp² 8 amp² 6 amp² 8 a		Operational current min	Α	0.63
Test Button Yes Trip indicator yes Terminals type screw and washer screw width tool M4 width tool Phillips 2 Tightening torque for terminals min Nm 2 max Nm 2.5 min lbin 1.5 max lbin 1.5 max lbin 1.8 Conductor section Flexible w/o lug max Flexible c/w lug max nm² 6 mm² 8 mm² 6		Operational current max	Α	1
Trip indicator yes Terminals type screw and washer 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 lbin 1.8 Conductor section Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8	Tripping class			
Terminals type screw and washer screw M4 width mm 12.6 tool Phillips 2	Test Button			Yes
type screw and washer screw width tool M4 Tightening torque for terminals mm 12.6 Phillips 2 min max Nm 2 max Nm 2.5 min lbin 1.5 max lbin 1.5 max lbin 1.8 Conductor section Flexible w/o lug max Flexible c/w lug max mm² flexible c/w lug max mm² 6 10 mm² 6 AWG/kcmil max 8	Trip indicator			yes
Tightening torque for terminals Screw M4 Width mm 12.6 Tightening torque for terminals Min Nm 2 Min Nm 2.5 Min Ibin 1.5 Min Ibin 1.8 Min Ibin 1.8 Min	Terminals			
Screw width width mm 12.6 Phillips 2		type		
width toolmm12.6 Phillips 2Tightening torque for terminalsmin maxNm2 MmaxmaxNm2.5 min Ibin1.5 maxConductor sectionFlexible w/o lug max Flexible c/w lug max AWG/kcmil maxmm² mm²10 Flexible c/w lug max Mm²		SCLOM		
Tightening torque for terminals min Nm 2 max Nm 2.5 min lbin 1.5 max lbin 1.8 Conductor section Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8			mm	
Tightening torque for terminals min Nm 2 max Nm 2.5 min Ibin 1.5 max Ibin 1.8 Conductor section Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8			111111	
min Nm 2 max Nm 2.5 min lbin 1.5 max lbin 1.8	Tightening torque for terminals	1001		1 11111p3 Z
max Nm 2.5 min Ibin 1.5 max Ibin 1.8 Conductor section Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8	Tightering terque for terminale	min	Nm	2
min Ibin 1.5 max Ibin 1.8 Conductor section Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8				
Conductor section Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8				
Conductor section Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8				
Flexible w/o lug max mm² 10 Flexible c/w lug max mm² 6 AWG/kcmil max 8	Conductor section	an		
Flexible c/w lug max mm² 6 AWG/kcmil max 8		Flexible w/o lug max	mm²	10
AWG/kcmil max 8				
	Auxiliary circuit characteristics			



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Auxiliary contacts

NO	Nr.	1
NC_		1
		690 6
		690
	V	090
24\/	Δ	3
		3
		1.5
380V	Α	0.95
480V	Α	0.75
500V	Α	0.72
600V	Α	0.6
125V	Α	0.11
600V	Α	0.22
	Α	10
Auxiliary circuit type		screw and
		washer
		M3.5
	mm	8
Auxiliary circuit tool		Phillips 2
A william ains it Florible w/o less seen	2	0.5
-		2.5
Auxiliary circut Flexible c/w lug max	mm-	2.5
Auxiliary circuit min	Nm	0.8
		1
		0.59
		0.74
Administry chodic max	10111	B600-R300
		2000 11000
min	°C	-25
max	°C	60
min	°C	-50
max	°C	70
min	°C	-20
max	°C	60
	m	3000
normal		Vertical plan ±30°
allowable		Direct mounting
		on BF09
	g	BF38
	Auxiliary circuit type Auxiliary circuit victuit victu	NC Nr. V kV V 24V A 120V A 240V A 380V A 480V A 500V A 600V A 600V A A A A A Auxiliary circuit type Auxiliary circuit screw Auxiliary circuit width Auxiliary circuit width Auxiliary circuit tool Auxiliary circuit tool Auxiliary circuit min C C max °C min °C max °C min normal

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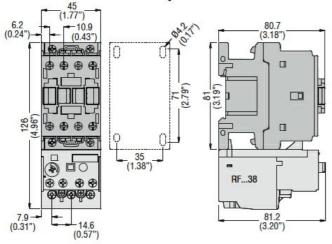
ENERGY AND AUTOMATION

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

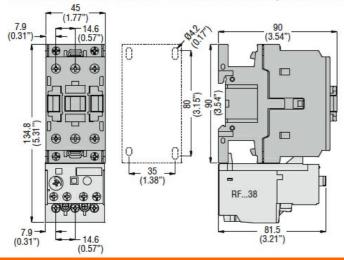
at 480V Α 1 at 600V Α 1

Dimensions

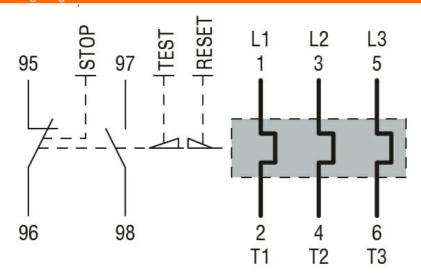
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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



Wiring diagrams



Certifications and compliance

RF380100



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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