ENERGY AND AUTOMATION

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE **electric** (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, 70...95A



Product designation			RF82
Product type designation			Motor protection
<u> </u>			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	200
	aM (IEC)	Α	100
	K5 (UL)	Α	350
Phase failure detection			yes
Reset mode			Manual
Power circuit characteristics			
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Rated operational voltage		V	690
Operational frequency			
operational inequency	min	Hz	0
	max	Hz	400
Operational current le	max		100
Operational current le			
	Operational current min	Δ	70
	Operational current min	A	70 05
Tripping close	Operational current min Operational current max	A A	95
Tripping class	-		95 10A
Test Button	-		95 10A Yes
Test Button Trip indicator	-		95 10A
Test Button	Operational current max		95 10A Yes yes
Test Button Trip indicator	Operational current max		95 10A Yes yes Yoke clamp
Test Button Trip indicator	Operational current max type screw		95 10A Yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max type screw width		95 10A Yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	Operational current max type screw	A	95 10A Yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max type screw width tool	mm	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width	mm Nm	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width tool min	mm Nm Nm Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min	mm Nm Nm Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min max	mm Nm Nm Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section	type screw width tool min max min max	mm Nm Nm Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section Auxiliary circuit characteristics	type screw width tool min max min max	mm Nm Nm Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section Auxiliary circuit characteristics	type screw width tool min max min max AWG/kcmil max	mm Nm Nm Ibin Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88
Test Button Trip indicator Terminals Tightening torque for terminals Conductor section Auxiliary circuit characteristics	type screw width tool min max min max AWG/kcmil max	mm Nm Ibin Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88



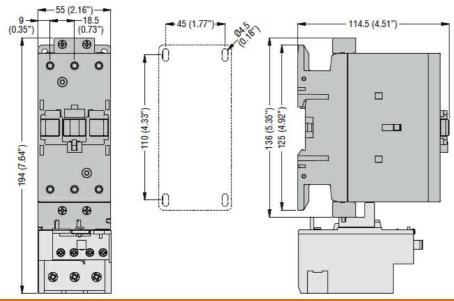
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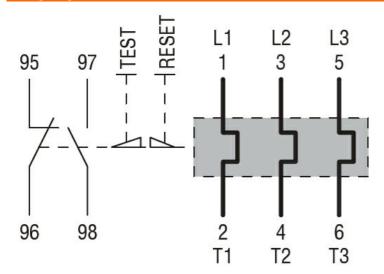
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
	500V	Α	0.72
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
			screw and
	Auxiliary circuit type		washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
Conductor section			· · · · · · · · · · · · · · · · · · ·
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circuit Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	Addition of out I locable of wing that	111111	2.0
Tightening torque for terminals	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit max Auxiliary circuit min	Ibin	
			0.74
III /CCA and IEC/EN COOAT E 4 designation	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation Ambient conditions			B600-P600
Operating temperature		۰.	00
	min	°C	-20
<u> </u>	max	°C	55
Storage temperature		2-	
	min	°C	-55
	max	°C	80
Compensation temperature			
	min	°C	-15
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Weight		g	365
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	95
	at 400V	A	95
Dimensions		, ,	

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Wiring diagrams



Certifications and compliance

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