ENERGY AND AUTOMATION

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE **electric** (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, 35...50A



Product designation			RF82
Product type designation			Motor protection
			relay
General characteristics Number of poles		Nr.	3
Overvoltage category		INI.	 III
Pollution degree			3
			IP20
Frontal IP degree			Thermal
Type of release Protection fuse			mermai
Protection ruse	ac (IEC)	۸	100
	gG (IEC)	A	100 50
	aM (IEC)	A	175
Phase failure detection	K5 (UL)	Α	
			yes Manual
Reset mode Power circuit characteristics			Iviariuai
		V	600
Rated insulation voltage Ui IEC/EN		kV	690 8
Rated impulse withstand voltage Uimp		V	
Rated operational voltage		V	690
Operational frequency	in		0
	min	Hz	0
	max	Hz	400
Operational current le		_	
	Operational current min	Α	35
	•		
	Operational current max	A	50
Tripping class	•		
Test Button	•		50
Test Button Trip indicator	•		50 10A
Test Button	•		50 10A yes yes
Test Button Trip indicator	•		50 10A yes yes Yoke clamp
Test Button Trip indicator	Operational current max type screw		50 10A yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max		50 10A yes yes Yoke clamp M5 9
Test Button Trip indicator	Operational current max type screw	A	50 10A yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max type screw width	A	50 10A yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	Operational current max type screw width	A	50 10A yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	Operational current max type screw width tool	mm Nm Nm	50 10A yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width tool min	Mm Nm	50 10A yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88
Test Button Trip indicator Terminals Tightening torque for terminals	Operational current max type screw width tool min max	mm Nm Nm	50 10A yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min max min max	mm Nm Nm Ibin	50 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	mm Nm Nm Ibin	50 10A yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min max	mm Nm Nm Ibin	50 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	50 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	50 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	50 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	50 10A yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88



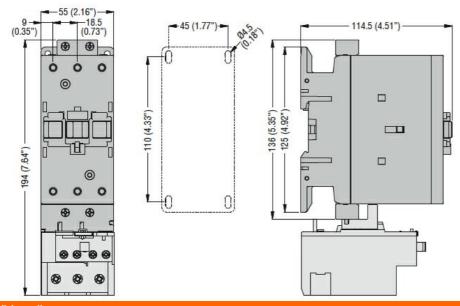
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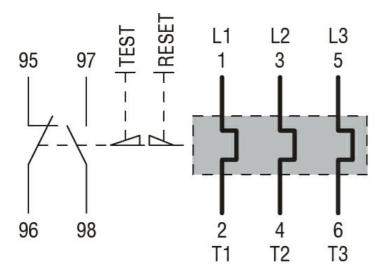
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
EC Conventional free air thermal current Ith		Α	10
Terminals Terminals			
	A		screw and
	Auxiliary circuit type		washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
Conductor section	<u> </u>		·
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Fightening torque for terminals	, ,		
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	lbin	0.74
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation	, and an		B600-P600
Ambient conditions			
Operating temperature			
operating temperature	min	°C	-20
	max	°C	55
Storage temperature	THAK		
otorago temporataro	min	°C	-55
	max	°C	80
Compensation temperature	max		
compondation tomporation	min	°C	-15
	max	°C	55
Max altitude	illax		3000
Wechanical features		1111	3000
Operating position			
Oberaning hosinon	namal		\/ortical plan
	normal		Vertical plan ±30°
	allowable		
Fixing			Direct mounting on BF40
Weight		~	365
JL technical data		g	303
Full-load current (FLA) for three-phase AC motor	-1.4001/	٨	5 0
	at 480V at 600V	A A	50 50
		4	

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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

cULus

ETIM classification

EC000106 -

Thermal overload

relay

ETIM 8.0