

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, and Automation 20...33A



Product designation			RF82
Product type designation			Motor protection relay
General characteristics			Tolay
Number of poles		Nr.	3
Overvoltage category			III
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	40
	K5 (UL)	Α	110
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			
' '	min	Hz	0
	max	Hz	400
Operational current le			
	Operational current min	Α	20
	Operational current max	А	33
Tripping class	Operational current max	Α	33 10A
Tripping class Test Button	Operational current max	A	10A
Test Button	Operational current max	A	10A yes
Test Button Trip indicator	Operational current max	A	10A
Test Button		A	10A yes yes
Test Button Trip indicator	type	A	10A yes yes Yoke clamp
Test Button Trip indicator	type screw		10A yes yes Yoke clamp M5
Test Button Trip indicator	type screw width	mm	10A yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	type screw		10A yes yes Yoke clamp M5
Test Button Trip indicator	type screw width tool	mm	10A yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool	mm	10A yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool min max	mm Nm Nm	10A yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm Ibin	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	mm Nm Nm	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	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	10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 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	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 AWG/kcmil max	mm Nm Nm Ibin Ibin	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	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	10A yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88



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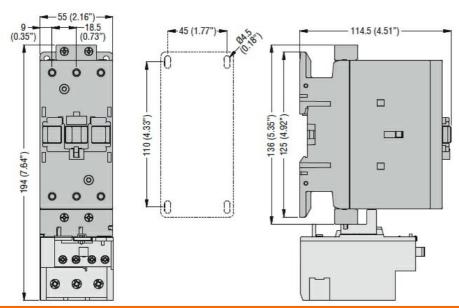
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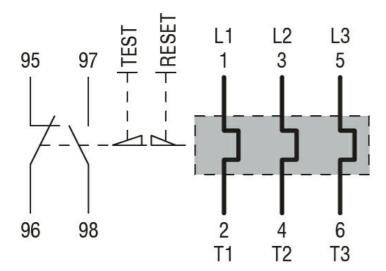
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
operating current 2010	125V	Α	0.11
	600V	A	0.22
IEC Conventional free air thermal current Ith	000 V		10
Terminals			10
Terrimais			
	Auxiliary circuit type		screw and
			washer
	Auxiliary circuit screw	<b>200 200</b>	M3,5
	Auxiliary circuit width	mm	8 Dhilling 1
	Auxiliary circuit tool		Phillips 1
Conductor section	, <del></del>	_	0.5
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening 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			B600-P600
Ambient conditions			
Operating temperature			
	min	°C	-20
	max	°C	55
Storage temperature			
	min	°C	-55
	max	°C	80
Compensation temperature	max		
Compondation temperature	min	°C	-15
		°C	55
Max altitude	max		3000
Mechanical features		m	3000
Operating position	<u>.</u>		
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BF40
We take			BF94
Weight		g	365
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	33
	at 600V	Α	33
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

**ETIM 8.0** 

cULus

ETIM classification

EC000106 -

Thermal overload

relay