**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		1.1-	0
	min	Hz	0
	max	Hz	400
Operational current le			
	Operational current min	Α	35
	On a rational accuract mass:		
	Operational current max	Α	50
Tripping class	Operational current max	A	10A
Test Button	Operational current max	A	
Test Button Trip indicator	Operational current max	A	10A
Test Button	Operational current max	A	10A yes yes
Test Button Trip indicator	type	A	10A yes yes Yoke clamp
Test Button Trip indicator	type screw	A	10A yes yes Yoke clamp M5
Test Button Trip indicator	type	mm	10A yes yes Yoke clamp M5 9
Test Button Trip indicator	type screw		10A yes yes Yoke clamp M5
Test Button Trip indicator	type screw width		10A yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	type screw width		10A yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm	10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9
Test Button Trip indicator Terminals	type screw width tool min	mm	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	mm Nm Nm	10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9
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	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	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  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  Auxiliary circuit characteristics Auxiliary contacts	type screw width tool  min max min max AWG/kcmil max	mm  Nm Nm Ibin Ibin Nr. Nr.	10A yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88 2
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



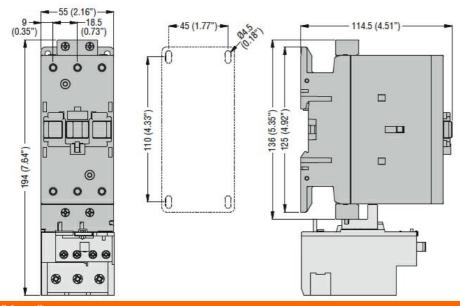
**ENERGY AND AUTOMATION** 

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

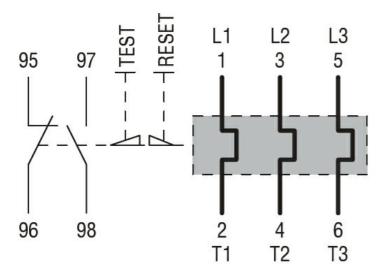
Auxiliary Rated impulse withstand voltage Uimp	kV	6
Auxiliary Rated operational voltage	V	690
Operating current AC15		•
24V	Α	3
120V	Α	3
240V	Α	1.5
380V	Α	0.95
480V	Α	0.75
500V	Α	0.72
600V	Α	0.6
Operating current DC13		
125V	Α	0.11
600V	Α	0.22
IEC Conventional free air thermal current Ith	Α	10
Terminals		
Auxiliary circuit type		screw and
		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 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	Ibin	0.74
Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation		B600-P600
Ambient conditions		
Operating temperature	0.0	00
min	°C	-20
Max Max	°C	55
Storage temperature	0.0	
min	°C	-55
max	°C	80
Compensation temperature	°C	45
min	°C	-15
Max altitude max		55
Mechanical features	m	3000
Operating position		
operating position normal		Vertical plan
allowable		Vertical plan ±30°
allowable		Direct mounting
Fixing		on BF40 BF94
		DI 07
Weight	g	365
Weight UL technical data	g	
-	g	
UL technical data	g A	
UL technical data Full-load current (FLA) for three-phase AC motor		365

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE

**electric** (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, **ENERGY AND AUTOMATION** 35...50A



## 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**