**ENERGY AND AUTOMATION** 

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE **electric** (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, 60...82A



Product designation			RF82
•			Motor protection
Product type designation			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	250
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		<u> </u>	
operational modules,	min	Hz	0
	max	Hz	400
Operational current le	THEX.	1 12	100
Operational current ic			
	Operational current min	Δ	60
	Operational current may	Α Δ	60 82
Tripping class	Operational current min Operational current max	A A	82
Tripping class Test Button	-		82 10A
Test Button	-		82 10A yes
Test Button Trip indicator	-		82 10A
Test Button	Operational current max		82 10A yes yes
Test Button Trip indicator	Operational current max		82 10A yes yes Yoke clamp
Test Button Trip indicator	Operational current max  type screw	A	82 10A yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max  type screw width		82 10A yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	Operational current max  type screw	A	82 10A yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max  type screw width tool	mm	82 10A yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max  type screw width tool min	mm Nm	82 10A yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm	82 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	82 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	mm Nm Nm	82 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	82 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	82 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	82 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	82 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	82 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	82 10A yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88

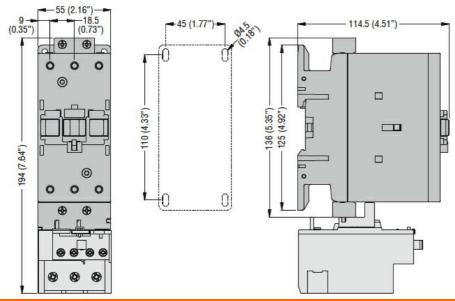


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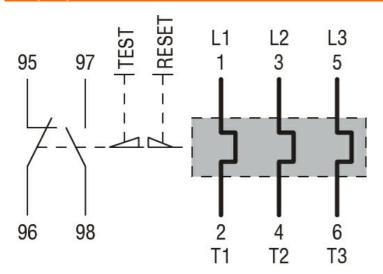
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
EC Conventional free air thermal current Ith		A	10
Ferminals			
			screw and
	Auxiliary circuit type		washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit screw	mm	8
	Auxiliary circuit would Auxiliary circuit tool	111111	Phillips 1
Conductor section	Auxiliary Circuit (001		r minha i
Solidactor Section	Auxilian cairouit Flavible/a lug	ma :== 2	0 F
	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
JL/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		
Jampanada tampatatara	min	°C	-15
	max	°C	55
Max altitude	illax		3000
Mechanical features		m	3000
Operating position			M. a. i. i.
	normal		Vertical plan
	allowable		±30°
Veight		g	365
JL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	82
	at 600V	Α	82
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

cULus

ETIM classification

EC000106 -

Thermal overload

relay

ETIM 8.0