

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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ENERGY AND AUTOMATION

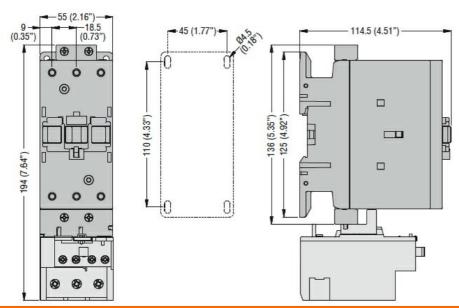
RF823300

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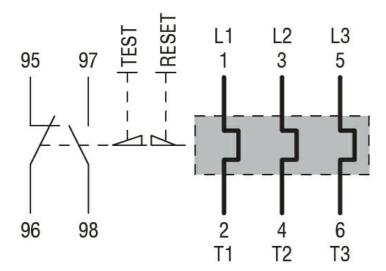
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		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		° C	00
	min	°C	-20
04	max	°C	55
Storage temperature		° C	FF
	min	°C	-55
Company and the state of the st	max	°C	80
Compensation temperature		°C	15
	min	°C	-15 55
Max altitude	max		
Max attitude Mechanical features		m	3000
Operating position			
Operating position	normal		Vertical plan
	normai allowable		Vertical plan ±30°
	allowable		Direct mounting
Fixing			on BF40 BF94
Weight		g	365
UL technical data			
Full-load current (FLA) for three-phase AC motor			
, , , , , , , , , , , , , , , , , , , ,	at 480V	Α	33
	at 600V	A	33
Dimensions [mm (in)]			

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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