**ENERGY AND AUTOMATION** 

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE **electric** (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, 28...42A



Due dont de sinuestico			DEOO
Product designation			RF82
Product type designation			Motor protection relay
General characteristics			· s.a.y
Number of poles		Nr.	3
Overvoltage category			III
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	80
	aM (IEC)	Α	50
	K5 (UL)	Α	150
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	28
	Operational current min Operational current max	A A	28 42
Tripping class Test Button			42 10A
Tripping class			42 10A yes
Tripping class Test Button			42 10A
Tripping class Test Button Trip indicator	Operational current max		42 10A yes
Tripping class Test Button Trip indicator			42 10A yes yes
Tripping class Test Button Trip indicator	Operational current max		42 10A yes yes Yoke clamp
Tripping class Test Button Trip indicator	Operational current max  type screw	A	42 10A yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width	A	42 10A yes yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width	A	42 10A yes yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool	mm	42 10A yes yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	type screw width tool	Mm Nm	42 10A yes yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm	42 10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9
Tripping class Test Button Trip indicator Terminals	type screw width tool  min max min	mm Nm Nm Ibin	42 10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88
Tripping class Test Button Trip indicator Terminals  Tightening torque for terminals	type screw width tool  min max min	mm Nm Nm Ibin	42 10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88
Tripping class Test Button Trip indicator Terminals  Tightening torque for terminals	type screw width tool min max min max	mm Nm Nm Ibin	42 10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Tripping class Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section	type screw width tool min max min max	mm Nm Nm Ibin	42 10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Tripping class 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	42 10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Tripping class 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 Ibin	42 10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Tripping class 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	42 10A yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88



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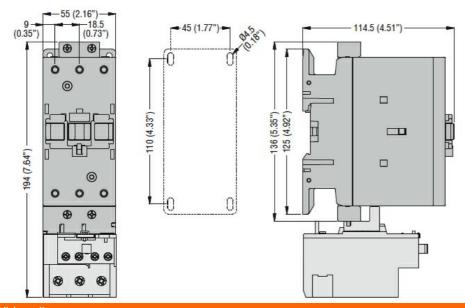
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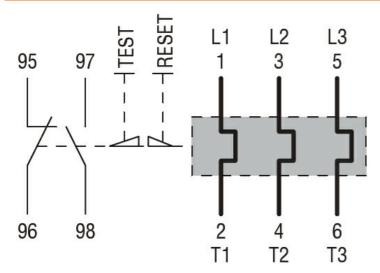
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
- P	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith	0001	A	10
Terminals			10
Terrinas			corow and
	Auxiliary circuit type		screw and washer
	Auxiliary circuit corow		M3,5
	Auxiliary circuit screw Auxiliary circuit width	mm	1VI3,5 8
	Auxiliary circuit width  Auxiliary circuit tool	mm	o Phillips 1
Conductor costion	Auxiliary circuit tool		Phillips I
Conductor section	Assolitant singuit Florible su/s language	2	0.5
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
<del>-</del>	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	THOX.		
	min	°C	-15
	max	°C	55
Max altitude	IIIdA		3000
Mechanical features		m	3000
Operating position			Madalala
	normal		Vertical plan
	allowable		±30°
Elido a			Direct mounting
Fixing			on BF40
			BF94
Weight		g	365
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	42
	at 600V	Α	42
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

cULus

ETIM classification

EC000106 -

Thermal overload

relay

**ETIM 8.0**