

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



Product designation			RFA82
Product type designation			Motor protection 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	63
	aM (IEC)	Α	40
	K5 (UL)	Α	110
Phase failure detection	,		yes
Reset mode			Automatic
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 outroom to	Operational current min	Α	20
	Operational current max	Α	33
	operational current max	<i>,</i> ,	00
Tripping class			10A
Tripping class Test Button			10A Yes
Test Button			Yes
Test Button Trip indicator			
Test Button	type		Yes yes
Test Button Trip indicator	type		Yes yes Yoke clamp
Test Button Trip indicator	screw	mm	Yes yes Yoke clamp M5
Test Button Trip indicator	screw width	mm	Yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	screw	mm	Yes yes Yoke clamp M5
Test Button Trip indicator	screw width tool		Yes yes  Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	screw width tool min	Nm	Yes yes  Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	screw width tool min max	Nm Nm	Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9
Test Button Trip indicator Terminals	screw width tool  min max min	Nm Nm Ibin	Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88
Test Button Trip indicator Terminals  Tightening torque for terminals	screw width tool min max	Nm Nm	Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9
Test Button Trip indicator Terminals	screw width tool  min max min max	Nm Nm Ibin	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	screw width tool  min max min	Nm Nm Ibin	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	screw width tool  min max min max	Nm Nm Ibin	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	screw width tool  min max min max AWG/kcmil max	Nm Nm Ibin Ibin	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	screw width tool  min max min max AWG/kcmil max	Nm Nm Ibin Ibin	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	screw width tool  min max min max AWG/kcmil max	Nm Nm Ibin Ibin	Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88





**ENERGY AND AUTOMATION** 

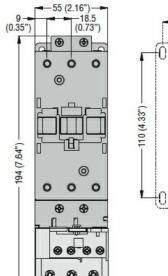
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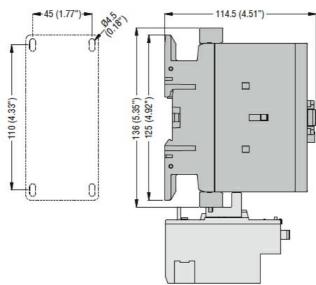
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
IEC Conventional free air thermal current Ith		А	10
Terminals			
	Auxiliary circuit type		screw and
	Additional type		washer
	Auxiliary circuit 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	lbin	0.74
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			C300-R300
Ambient conditions			
Operating temperature			
	min	°C	-20
	max	°C	55
Storage temperature			
	min	°C	-55
	max	°C	80
Compensation temperature			
	min	°C	-15
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
			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	Α	33



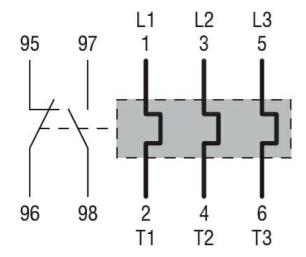
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## Wiring diagrams



## Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

cULus

ETIM classification

**ETIM 8.0** 

EC000106 -Thermal overload relay