



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



Product designation			RFNA82
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	100
	aM (IEC)	Α	50
	K5 (UL)	Α	175
Phase failure detection	, ,		no
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 current min	Α	35
	Operational current min	A A	35 50
	Operational current min Operational current max	A A	50
Tripping class	-		50 10A
Tripping class Test Button	-		50 10A yes
Tripping class Test Button Trip indicator	-		50 10A
Tripping class Test Button	Operational current max		50 10A yes yes
Tripping class Test Button Trip indicator	Operational current max type		50 10A yes yes Yoke clamp
Tripping class Test Button Trip indicator	Operational current max  type screw	A	50 10A yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width		50 10A yes yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw	A	50 10A yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width tool	mm	50 10A yes yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool min	mm Nm	50 10A yes yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool  min max	mm Nm Nm	50 10A yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool  min max min	mm Nm Nm Ibin	50 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	Operational current max  type screw width tool  min max	mm Nm Nm	50 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 max	mm Nm Nm Ibin	50 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	Operational current max  type screw width tool  min max min	mm Nm Nm Ibin	50 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  Conductor section  Auxiliary circuit characteristics	type screw width tool min max min max	mm Nm Nm Ibin	50 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 Ibin	50 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	Operational current max  type screw width tool  min max min max AWG/kcmil max	mm Nm Ibin Ibin	50 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	50 10A yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88





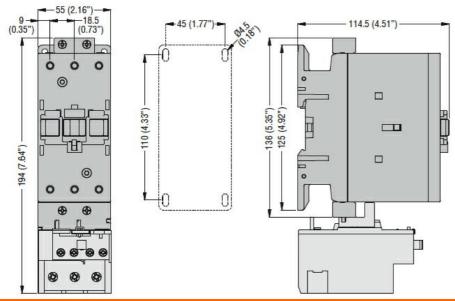
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Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
Conductor section	raxiliary official tool		1 milipo 1
Conductor Coulon	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circuit Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	Addition of the contract of th	1001	2.0
rightening torque for terminals	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit max  Auxiliary circuit min	Ibin	0.74
	Auxiliary circuit max	Ibin	0.74
III /CSA and IEC/EN 60047 F 1 designation	Auxiliary circuit max	IDIII	C300-R300
UL/CSA and IEC/EN 60947-5-1 designation  Ambient conditions			C300-R300
Operating temperature			
Operating temperature	min	°C	-20
		°C	55
Storage temperature	max		55
Storage temperature	min	°C	-55
	min	°C	-55 80
Occurred to the second to the	max	<u> </u>	80
Compensation temperature		00	4.5
	min	°C	-15 
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BF40
NA - 1 -			BF94
Weight		g	365
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	50
	at 600V	Α	50
Dimensions			

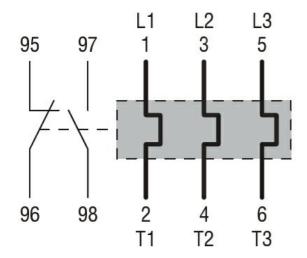




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## Wiring diagrams



## Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

cULus

ETIM classification

**ETIM 8.0** 

EC000106 -Thermal overload relay