



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



Product designation			RFN82
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	100
	aM (IEC)	Α	50
	K5 (UL)	Α	175
Phase failure detection	,		no
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	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		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	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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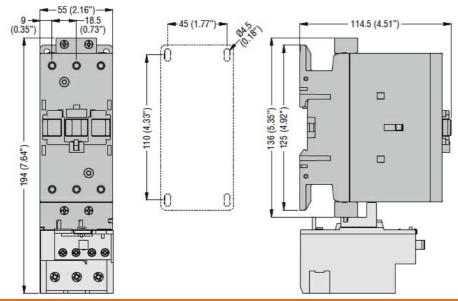
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
EC Conventional free air thermal current Ith		Α	10
Terminals Terminals			
	A		screw and
	Auxiliary circuit type		washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
Conductor section	<u> </u>		·
	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
UL/CSA and IEC/EN 60947-5-1 designation	, and an		B600-P600
Ambient conditions			
Operating temperature			
operating temperature	min	°C	-20
	max	°C	55
Storage temperature	THAK		
otorago temporataro	min	°C	-55
	max	°C	80
Compensation temperature	max		
compondation tomporation	min	°C	-15
	max	°C	55
Max altitude	illax		3000
Wechanical features		1111	3000
Operating position			
Oberaning hosinon	namal		\/ortical plan
	normal		Vertical plan ±30°
	allowable		
Fixing			Direct mounting on BF40
Weight		~	365
JL technical data		g	303
Full-load current (FLA) for three-phase AC motor	-1.4001/	٨	5 0
	at 480V at 600V	A A	50 50
		4	



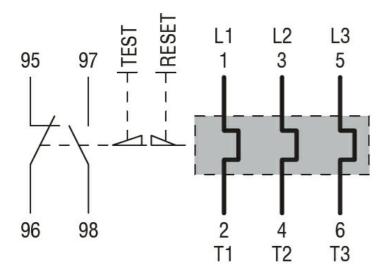


ENERGY AND AUTOMATION

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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