



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			
opolanonal moquency	min	Hz	0
	max	Hz	400
Operational current le	max		100
Operational current le	Operational current min	Α	35
	Operational current max	A	50
Tripping class	Operational current max		
Tripping class			
			10A
Test Button			yes
Test Button Trip indicator			
Test Button	A		yes yes
Test Button Trip indicator	type		yes yes Yoke clamp
Test Button Trip indicator	screw		yes yes Yoke clamp M5
Test Button Trip indicator	screw width	mm	yes yes Yoke clamp M5
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





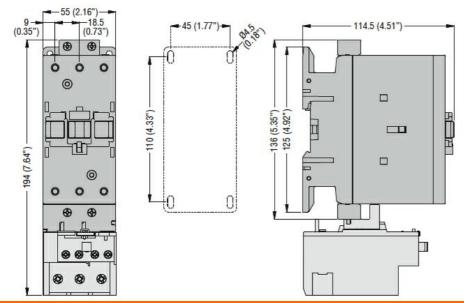
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			,
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
2	24V	Α	3
12	20V	Α	3
24	10V	Α	1.5
38	30V	Α	0.95
48	30V	Α	0.75
50)0V	Α	0.72
60)0V	Α	0.6
Operating current DC13			
12	25V	Α	0.11
60)0V	Α	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
			screw and
Auxiliary circuit ty	ype		washer
Auxiliary circuit sci	rew		M3,5
Auxiliary circuit w		mm	8
Auxiliary circuit			Phillips 1
Conductor section			
Auxiliary circuit Flexible w/o lug r	nax	mm²	2.5
Auxiliary circut Flexible c/w lug r		mm²	2.5
Tightening torque for terminals	Παλ		2.0
Auxiliary circuit	min	Nm	1
Auxiliary circuit r		Nm	1
Auxiliary circuit		lbin	0.74
Auxiliary circuit r		lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation	Παλ	IDIII	B600-P600
Ambient conditions			D000-F 000
Operating temperature	min	°C	20
	min		-20
	nax	°C	55
Storage temperature		° C	F.F.
	min	°C	-55
	nax	°C	80
Compensation temperature		0.0	45
	min	°C	-15
	nax	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
nor			Vertical plan
allowa	able		±30°
Fixing			Direct mounting on BF40 BF94
Weight		a	
Weight UL technical data		g	365
UL technical data		g	
UL technical data Full-load current (FLA) for three-phase AC motor	ROV		365
UL technical data		g A A	

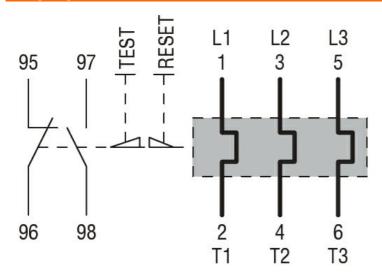




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Wiring diagrams



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