



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



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	80
	aM (IEC)	Α	50
	K5 (UL)	Α	150
Phase failure detection	110 (0 =)		no
Reset mode			Manual
Power circuit characteristics			Mariaai
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Rated operational voltage		V	690
Operational frequency		v	
Operational frequency	min	Hz	0
	max	Hz	400
Operational current le	IIIax	1 12	400
Operational current le			
	Operational aurrent min	۸	20
	Operational current min	A	28
Tripsing along	Operational current min Operational current max	A A	42
Tripping class	· · · · · · · · · · · · · · · · · · ·		42 10A
Test Button	· · · · · · · · · · · · · · · · · · ·		42 10A Yes
Test Button Trip indicator	· · · · · · · · · · · · · · · · · · ·		42 10A
Test Button	Operational current max		42 10A Yes yes
Test Button Trip indicator	Operational current max		42 10A Yes yes Yoke clamp
Test Button Trip indicator	Operational current max type screw	A	42 10A Yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max type screw width		42 10A Yes yes Yoke clamp M5 9
Test Button Trip indicator Terminals	Operational current max type screw	A	42 10A Yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max type screw width tool	mm	42 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width	mm Nm	42 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width tool min max	mm Nm Nm	42 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width tool min	mm Nm Nm Ibin	42 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88
Test Button Trip indicator Terminals Tightening torque for terminals	Operational current max type screw width tool min max	mm Nm Nm	42 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator 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
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	42 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88
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
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
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
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 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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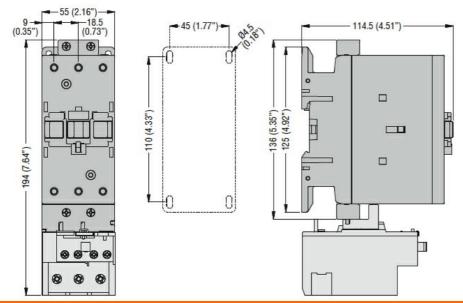
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
EC Conventional free air thermal current Ith		Α	10
Terminals			
	A		screw and
	Auxiliary circuit 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
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	•		B600-P600
Ambient conditions			
Operating temperature			
3 1	min	°C	-20
	max	°C	55
Storage temperature			
- · · · · · · · · · · · · · · · · · · ·	min	°C	-55
	max	°C	80
Compensation temperature			
	min	°C	-15
	max	°C	55
Max altitude	max	m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
	anowabic		Direct mounting
Fixing			on BF40
· ······ y			BF94
Weight		g	365
JL technical data		3	
Full-load current (FLA) for three-phase AC motor			
and the state of t	at 480V	Α	42
	at 400V	A	42
Dimensions	at 550 v		· -



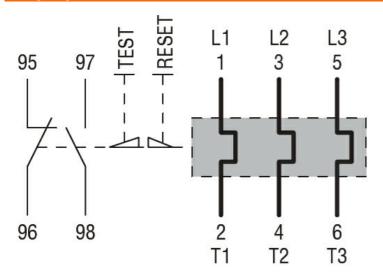


ENERGY AND AUTOMATION

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



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