



MOTOR PROTECTION RELAY, NON PHASE FAILURE / NON SINGLE PHASE SENSITIVE. THREE POLE (THREE PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, 60...82A



Product designation			RFN82
· ·			Motor protection
Product type designation			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	200
	aM (IEC)	Α	100
	K5 (UL)	Α	250
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	60
	Operational current min Operational current max	A A	60 82
Tripping class	-		82 10A
Tripping class Test Button	-		82 10A Yes
Tripping class Test Button Trip indicator	-		82 10A
Tripping class Test Button	-		82 10A Yes
Tripping class Test Button Trip indicator	-		82 10A Yes Yes Yoke clamp
Tripping class Test Button Trip indicator	Operational current max type screw		82 10A Yes Yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max		82 10A Yes Yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max type screw	A	82 10A Yes Yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max type screw width tool	mm	82 10A Yes Yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	Operational current max type screw width	Mm Nm	82 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	82 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	mm Nm Nm Ibin	82 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	82 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	82 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	82 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	82 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	82 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	82 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	82 10A Yes Yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88





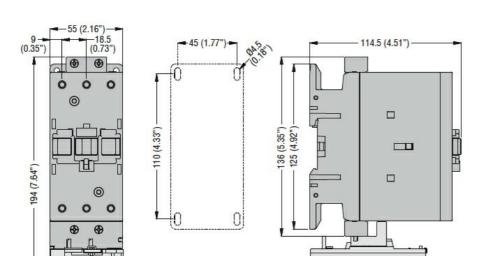
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Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
EC Conventional free air thermal current Ith		Α	10
erminals			
	A coelliant ainst it to the		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
ightening torque for terminals			
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	Ibin	0.74
	Auxiliary circuit max	Ibin	0.74
JL/CSA and IEC/EN 60947-5-1 designation			B600-P600
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
∕lax altitude		m	3000
Mechanical features			
Operating position			
- 1	normal		Vertical plan
	allowable		±30°
Veight	anovable	g	365
JL technical data		9	
Full-load current (FLA) for three-phase AC motor			
an load durient (i LA) for three-phase Ao motor	at 480V	Α	82
	at 600V	A	82
Dimensions	at 000 V		UZ

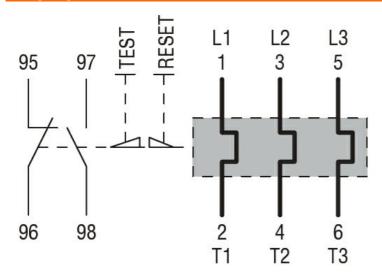




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Wiring diagrams



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