



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			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	80
	aM (IEC)	Α	50
	K5 (UL)	Α	150
Phase failure detection	110 (02)		No
Reset mode			Manual
Power circuit characteristics			Iviai idai
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Rated operational voltage		V	690
		V	690
Operational frequency			0
	min	Hz	0
	max	Hz	400
Operational current le			
·			
	Operational current min	A	28
	Operational current min Operational current max	A A	42
Tripping class	-		42 10A
Tripping class Test Button	-		42 10A Yes
Tripping class Test Button Trip indicator	-		42 10A
Tripping class Test Button	-		42 10A Yes Yes
Tripping class Test Button Trip indicator	-		42 10A Yes Yes Yoke clamp
Tripping class Test Button Trip indicator	Operational current max  type screw		42 10A Yes Yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max		42 10A Yes Yes Yoke clamp M5 9
Tripping class Test Button Trip indicator	Operational current max  type screw	A	42 10A Yes Yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width	A	42 10A Yes Yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width	A	42 10A Yes Yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool	mm	42 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	42 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	42 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 min	mm Nm Nm Ibin	42 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 min	mm Nm Nm Ibin	42 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	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
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	42 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	42 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	42 10A Yes Yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88





**ENERGY AND AUTOMATION** 

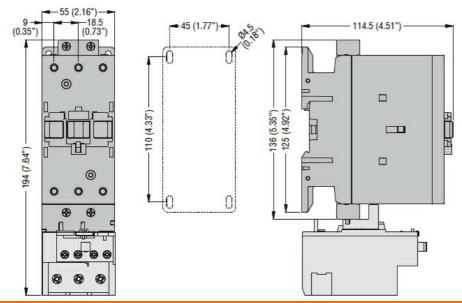
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Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
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			
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening 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			
	min	°C	-20
	max	°C	55
Storage temperature			
	min	°C	-55
	max	°C	80
Compensation temperature			
	min	°C	-15
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BF40 - BF94
Weight		g	365
UL technical data		9	
Full-load current (FLA) for three-phase AC motor			
i dii load current (i LA) for tillee-priase AC filotor	at 480V	٨	42
	at 480V at 600V	A A	42
	ai 000 v	А	44

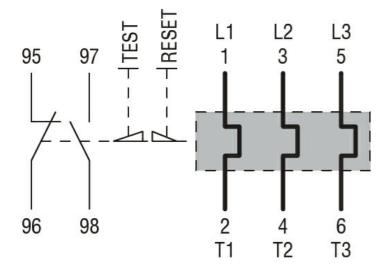




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## Wiring diagrams



## 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**