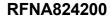




MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), AUTOMATIC RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, 28...42A



Product designation			RFNA82
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			no
Reset mode			Automatic
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	28
	Operational current min	A A	28 42
Tripping class	Operational current min Operational current max	A A	42
Tripping class Test Button			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	type screw width tool	mm Nm	42 10A yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool	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	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	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	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 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	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
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	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 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





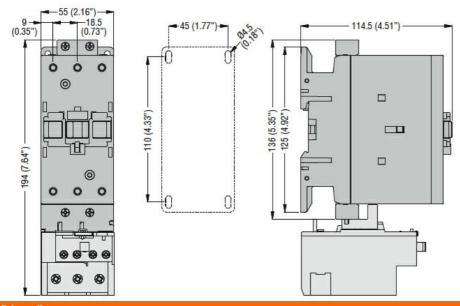
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Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	A iliam . aira it t		screw 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
Tightening torque for terminals	,		-
Tighterming terrifice terriminals	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	Ibin	0.74
	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation	Additional Max	10111	C300-R300
Ambient conditions			0000 11000
Operating temperature			
operating temperature	min	°C	-20
	max	°C	55
Storage temperature	max		
Clorage temperature	min	°C	-55
	max	°C	80
Componentian temperature	IIIdA		00
Compensation temperature	i-	°C	45
	min	°C	-15
M. alectic	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Et to			Direct mounting
Fixing			on BF40
			BF94
Weight		g	365
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	42
Dimensions	at 600V	Α	42

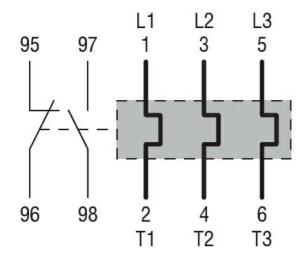




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Wiring diagrams



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