



RFN82  
Motor protection  
relay

Product designation

Product type designation

### 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)	A 125
	aM (IEC)	A 80
	K5 (UL)	A 200
Phase failure detection		no
Reset mode		Manual

### Power circuit characteristics

Rated insulation voltage $U_i$ IEC/EN	V	690
Rated impulse withstand voltage $U_{imp}$	kV	8
Rated operational voltage	V	690
Operational frequency	min	Hz 0
	max	Hz 400
Operational current $I_e$		
	Operational current min	A 46
	Operational current max	A 65
Tripping class		10A
Test Button		yes
Trip indicator		yes

Terminals

type	Yoke clamp
screw	M5
width	9
tool	Phillips 2

Tightening torque for terminals

min	Nm	3.9
max	Nm	3.9
min	lbin	2.88
max	lbin	2.88

Conductor section

AWG/kcmil max	2
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### Auxiliary circuit characteristics

Auxiliary contacts

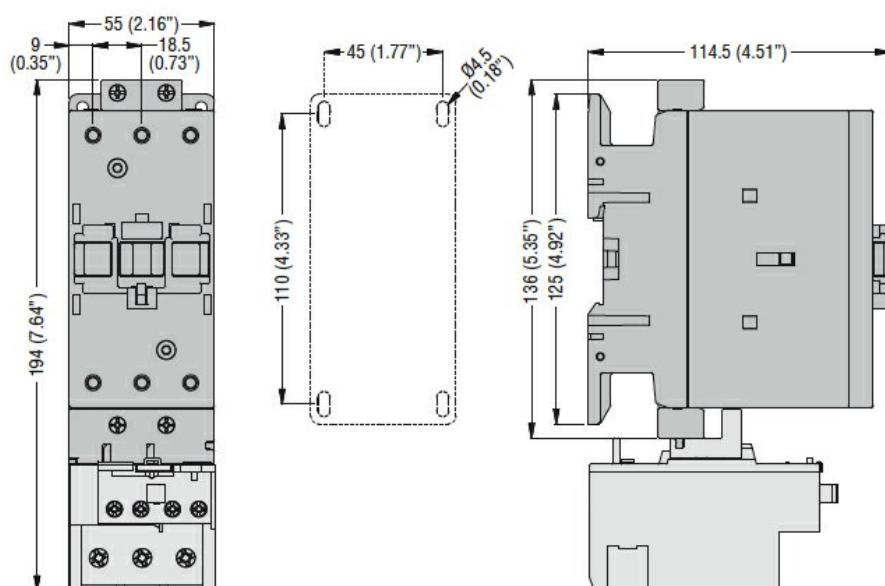
NO	Nr.	1
NC	Nr.	1

Auxiliary Rated insulation voltage $U_i$ IEC/EN	V	690
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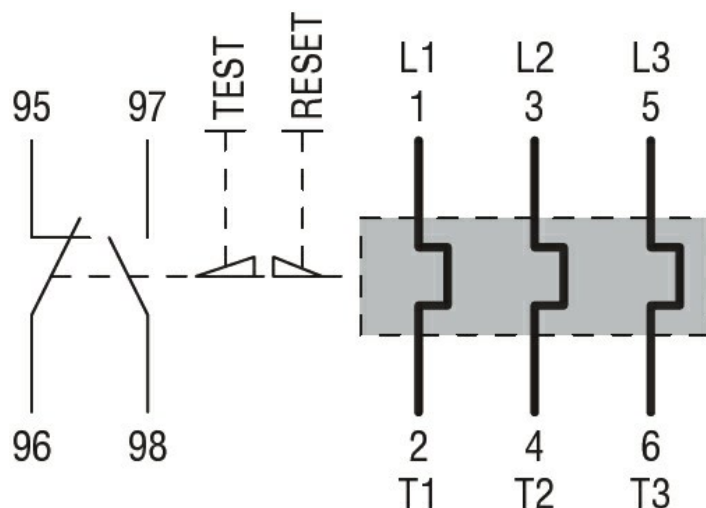
Motor protection relay, non phase failure/non single-phase sensitive. Three-pole (three-phase), manual resetting. Direct mounting on BF40 - BF94 contactors, 46...65A

Auxiliary Rated impulse withstand voltage Uimp	kV	6
Auxiliary Rated operational voltage	V	690
Operating current AC15		
	24V	A 3
	120V	A 3
	240V	A 1.5
	380V	A 0.95
	480V	A 0.75
	500V	A 0.72
	600V	A 0.6
Operating current DC13		
	125V	A 0.11
	600V	A 0.22
IEC Conventional free air thermal current Ith	A	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	mm <sup>2</sup> 2.5
	Auxiliary circuit Flexible c/w lug max	mm <sup>2</sup> 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
<b>Ambient conditions</b>		
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
<b>Mechanical features</b>		
Operating position		
	normal allowable	Vertical plan ±30°
Fixing		Direct mounting on BF40... BF94...
Weight	g	365
<b>UL technical data</b>		
Full-load current (FLA) for three-phase AC motor		
	at 480V	A 65
	at 600V	A 65
<b>Dimensions</b>		

Motor protection relay, non phase failure/non single-phase sensitive. Three-pole (three-phase), manual resetting. Direct mounting on BF40 - BF94 contactors, 46...65A



## 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