



Product designation

RFN420

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)	A 630
	aM (IEC)	A 500
	K5 (UL)	A 800
Phase failure detection		no
Reset mode		Manual or automatic

Power circuit characteristics

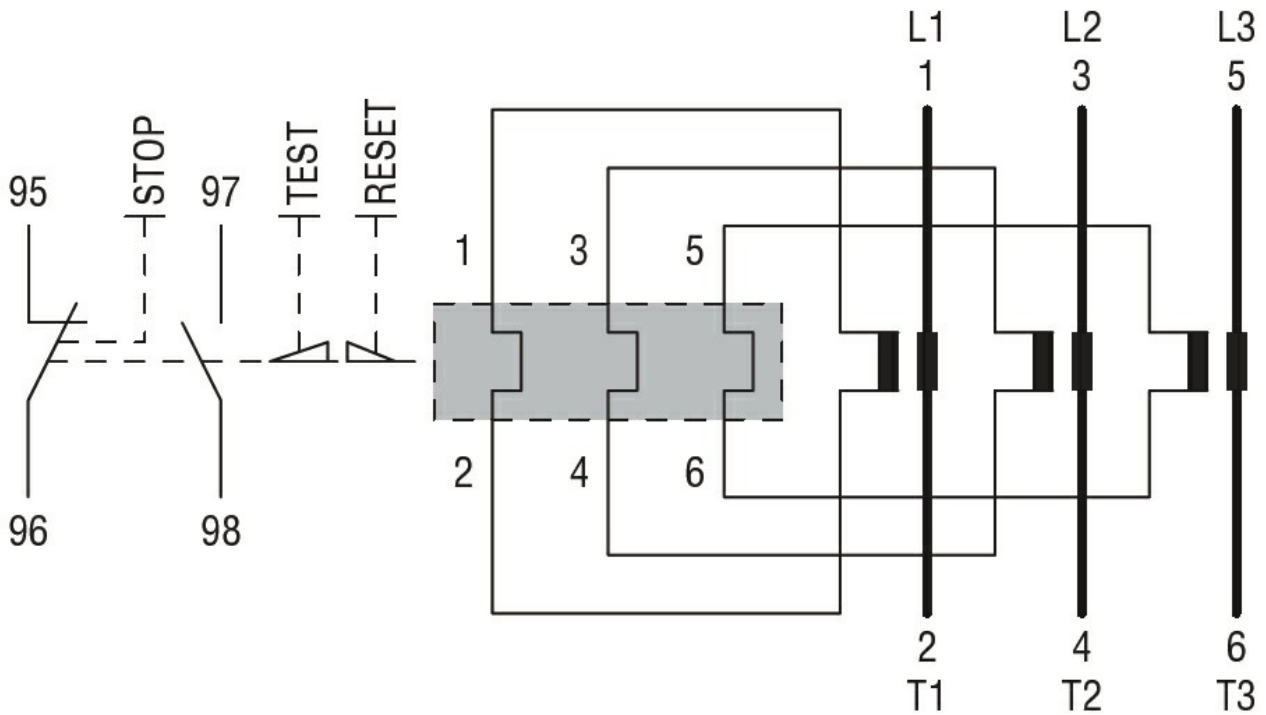
Rated insulation voltage U_i IEC/EN	V	1000
Rated operational voltage	V	690
Operational frequency		
	min	Hz 50
	max	Hz 60
Operational current I_e		
	Operational current min	A 250
	Operational current max	A 420
Tripping class		10A
Test Button		Yes
Trip indicator		yes
Terminals		
	type	screw and flat washer
	screw	M10
	width	mm 25
	tool	Bar 18mm

Tightening torque for terminals		
	min	Nm 35
	max	Nm 35
	min	Ibin 25.9
	max	Ibin 25.9

Auxiliary circuit characteristics

Auxiliary contacts		
	NO	Nr. 1
	NC	Nr. 1
Auxiliary Rated insulation voltage U_i IEC/EN	V	690
Auxiliary Rated impulse withstand voltage U_{imp}	kV	6

Auxiliary Rated operational voltage	V	690
Operating current AC15	24V 120V 240V 380V 480V 500V 600V	A 3 3 1.5 0.95 0.75 0.72 0.6
Operating current DC13	125V 600V	A 0.11 0.22
IEC Conventional free air thermal current I _{th}	A	10
Terminals	Auxiliary circuit type Auxiliary circuit screw Auxiliary circuit width Auxiliary circuit tool	screw and washer M3,5 8 mm Phillips 2
Conductor section	Auxiliary circuit Flexible w/o lug max Auxiliary circuit Flexible c/w lug max	mm ² 2.5 mm ² 2.5
Tightening torque for terminals	Auxiliary circuit min Auxiliary circuit max Auxiliary circuit min Auxiliary circuit max	Nm 0.8 Nm 1 lbin 0.59 lbin 0.74
UL/CSA and IEC/EN 60947-5-1 designation		B600-R300
Ambient conditions		
Operating temperature	min max	°C -25 °C 60
Storage temperature	min max	°C -50 °C 70
Compensation temperature	min max	°C -20 °C 60
Max altitude	m	3000
Mechanical features		
Operating position	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	2460
UL technical data		
Full-load current (FLA) for three-phase AC motor	at 480V at 600V	A 420 A 420
Dimensions		
Wiring diagrams		



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

cULus

EAC

ETIM classification

ETIM 8.0

EC000106 -
Thermal overload
relay