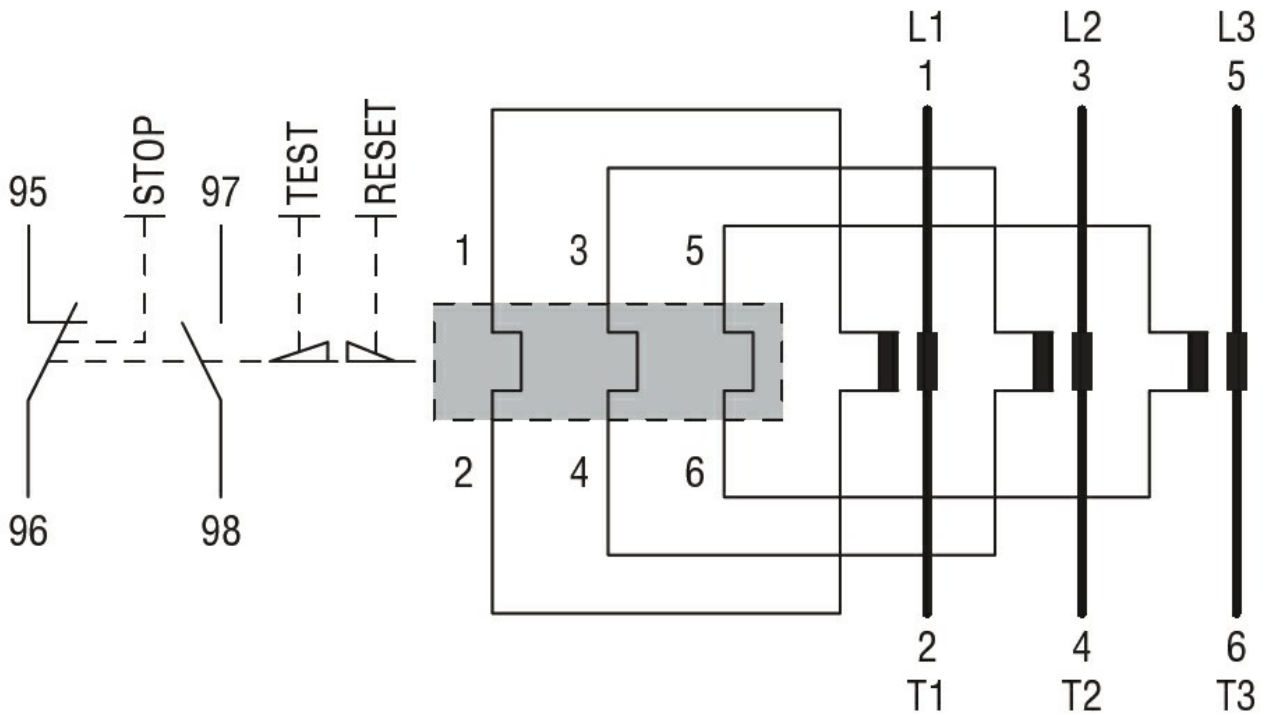




Product designation	RFN420		
Product type designation	Motor protection relay		
<b>General characteristics</b>			
Number of poles	Nr.	3	
Overvoltage category	III		
Pollution degree	3		
Frontal IP degree	IP20		
Type of release	Thermal		
Protection fuse			
	gG (IEC)	A	630
	aM (IEC)	A	500
	K5 (UL)	A	800
Phase failure detection	no		
Reset mode	Manual or automatic		
<b>Power circuit characteristics</b>			
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
<b>Auxiliary circuit characteristics</b>			
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 <sub>th</sub>	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 <sup>2</sup> 2.5 mm <sup>2</sup> 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
<b>Ambient conditions</b>		
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
<b>Mechanical features</b>		
Operating position	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	2460
<b>UL technical data</b>		
Full-load current (FLA) for three-phase AC motor	at 480V at 600V	A 420 A 420
<b>Dimensions</b>		
<b>Wiring diagrams</b>		



**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