



Product designation

RF420

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 500
	aM (IEC)	A 315
	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 impulse withstand voltage U_{imp}	kV	6
Rated operational voltage	V	690
Operational frequency		
	min	Hz 50
	max	Hz 60
Operational current I_e		
	Operational current min	A 180
	Operational current max	A 300
Tripping class		10A
Test Button		Yes
Trip indicator		yes

Terminals

type	screw and flat washer
screw	M10
width	25
tool	Bar 18mm

Tightening torque for terminals

min	Nm	35
max	Nm	35
min	lbin	25.9
max	lbin	25.9

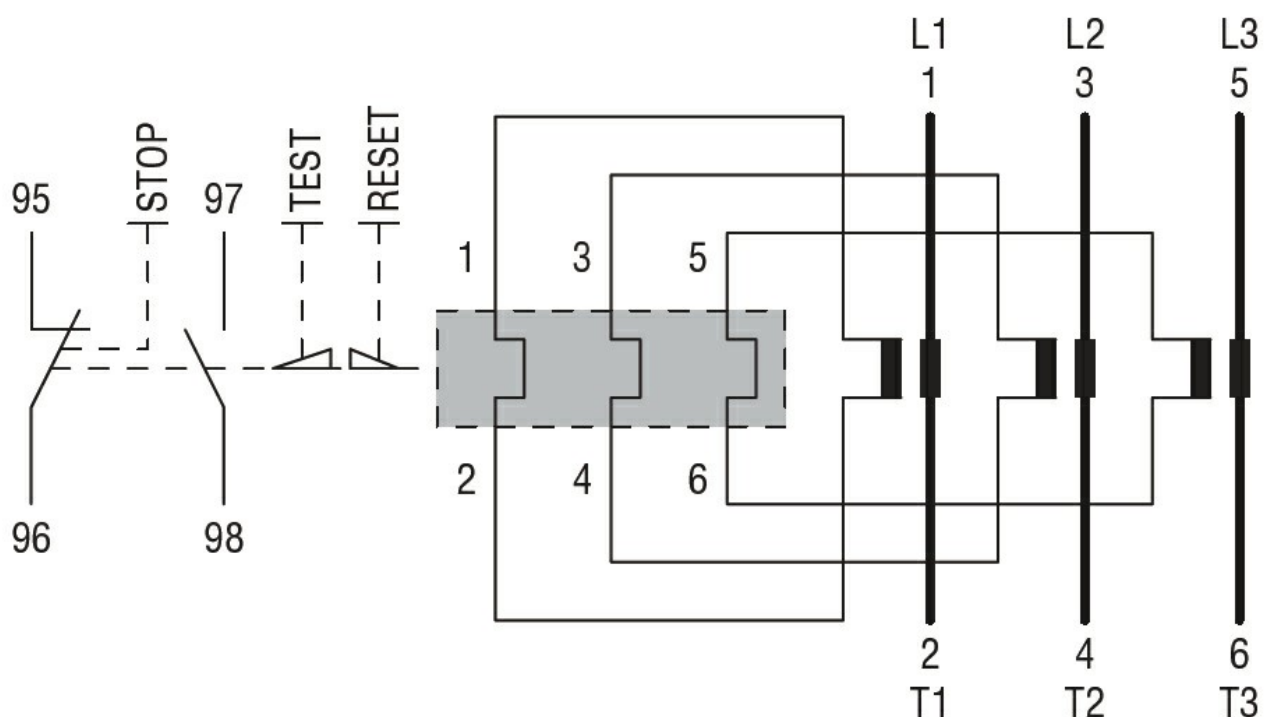
Auxiliary circuit characteristics

Auxiliary contacts

NO	Nr.	1
NC	Nr.	1

Auxiliary Rated insulation voltage U_i IEC/EN V 690

Auxiliary Rated impulse withstand voltage 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 2
Conductor section	Auxiliary circuit Flexible w/o lug max	mm ² 2.5
	Auxiliary circuit Flexible c/w lug max	mm ² 2.5
Tightening torque for terminals	Auxiliary circuit min	Nm 0.8
	Auxiliary circuit max	Nm 1
	Auxiliary circuit min	lbin 0.59
	Auxiliary circuit max	lbin 0.74
UL/CSA and IEC/EN 60947-5-1 designation		B600-R300
Ambient conditions		
Operating temperature	min	°C -25
	max	°C 60
Storage temperature	min	°C -50
	max	°C 70
Compensation temperature	min	°C -20
	max	°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	A 300
	at 600V	A 300
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