



RF420
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 400
	aM (IEC)	A 250
	K5 (UL)	A 800
Phase failure detection		no
Reset mode		Manual or automatic

Power circuit characteristics

Rated insulation voltage Ui	V	1000
Rated impulse withstand voltage Uimp	kV	6
Rated operational voltage	V	690
Operating frequency		
	Operational frequency min	Hz 50
	Operational frequency max	Hz 60
Operating current		
	Operational current min	A 150
	Operational current max	A 250
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

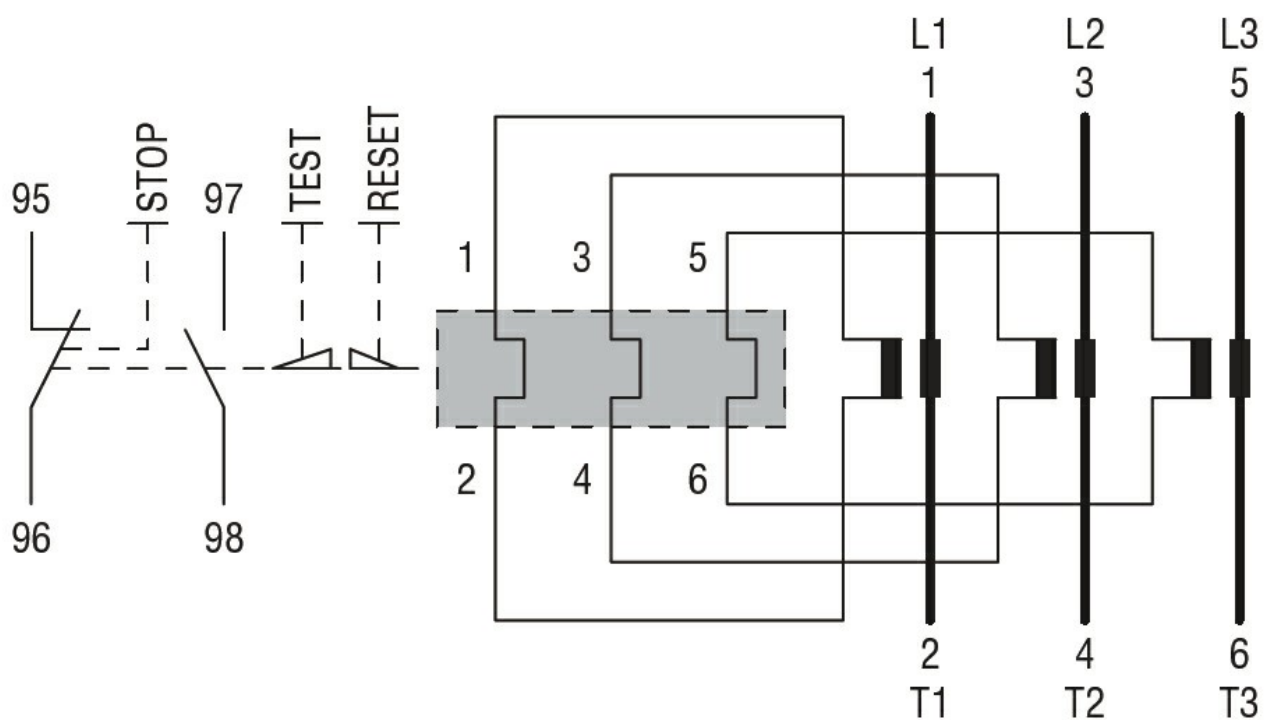
	min	Nm	35
	max	Nm	35
	min	lbft	25.9
	max	lbft	25.9

Auxiliary circuit characteristics

Auxiliary contacts

	NO	nr.	1
	NC	nr.	1
Rated insulation voltage Ui	V		690

Rated impulse withstand voltage Uimp	kV	6
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
Conventional free air thermal current Ith	A	10
Terminals	type	Screw and washer
	screw	M3,5
	width	8
	tool	Phillips 2
Conductor section	Flexible w/o lug max	mm ² 2.5
	Flexible c/w lug max	mm ² 2.5
Tightening torque for terminals	min	Nm 0.8
	max	Nm 1
	min	lbft 0.59
	max	lbft 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°
Weight	g	2460
UL technical data		
Full-load current (FLA) for three-phase AC motor	at 480V	A 250
	at 600V	A 250
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