RF420420

Motor protection relay, phase failure/single-phase sensitive. Three-pole (three-phase), manual or automatic resetting, 250...420A



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	630
	aM (IEC)	A	500
	K5 (UL)	A	800
Phase failure detection			No
Reset mode			Manual or automatic
Power circuit characteristics			
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	6
Rated operational voltage		V	690
Operational frequency			
	min	Hz	50
	max	Hz	60
Operational current Ie			
	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	lbin	25.9
	max	lbin	25.9
Auxiliary circuit characteristics			
Auxiliary contacts			
	NO	Nr.	1
	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN		V	690

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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	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	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		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	2460
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	420
	at 600V	A	420
Dimensions			
Wiring diagrams			

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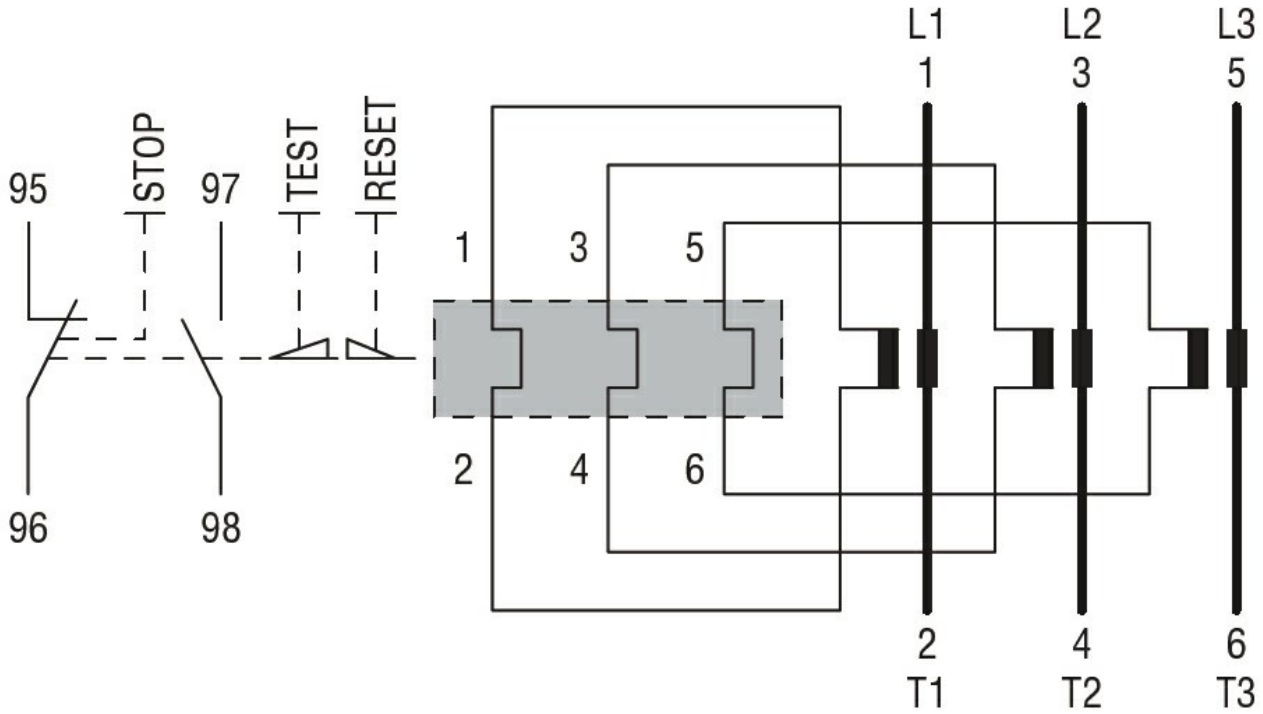

Certifications and compliance

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

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