



## MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING, 150...250A



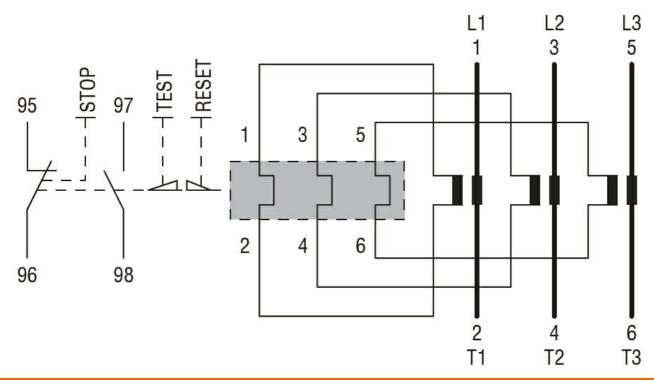
Product designation			RFN420
Product type designation			Motor protection relay
General characteristics			
Number of poles		Nr.	3
Overvoltage category			111
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	400
	aM (IEC)	Α	250
	K5 (UL)	Α	800
Phase failure 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 le			
· ·	Operational current min	Α	150
	Operational current max	Α	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	Ibin	25.9
	max	Ibin	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	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
EC Conventional free air thermal current Ith		Α	10
Γerminals			
	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
Fightening torque for terminals			
	Auxiliary circuit min	Nm	0.8
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	Ibin	0.59
	Auxiliary circuit max	Ibin	0.74
JL/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°
- ixing			Screw
Weight		g	2460
JL technical data			
Full-load current (FLA) for three-phase AC motor			
, ,	at 480V	Α	250
	at 600V	Α	250
Dimensions	at 600V	A	250

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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