

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 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	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 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	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 I _{th}		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	I _{bin}	0.59
	Auxiliary circuit max	I _{bin}	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	420
	at 600V	A	420
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