

Product designation				RF38
Product type designation				Motor protection relay
<b>General characteristics</b>				
Number of poles		Nr.	3	
Overvoltage category				III
Pollution degree				3
Frontal IP degree				IP20
Type of release				Thermal
Protection fuse				
	gG (IEC)	A	1	
	aM (IEC)	A	0.5	
	RK5 (UL)	A	3	
Phase failure detection				Yes
Reset mode				Manual or automatic
<b>Power circuit characteristics</b>				
Rated insulation voltage $U_i$ IEC/EN		V	690	
Rated impulse withstand voltage $U_{imp}$		kV	6	
Rated operational voltage		V	690	
Operational frequency				
	min	Hz	0	
	max	Hz	400	
Operational current $I_e$				
	Operational current min	A	0.25	
	Operational current max	A	0.4	
Tripping class				10A
Test Button				Yes
Trip indicator				Yes
Terminals				
	type	Screw and washer		
	screw	M4		
	width	mm	12.6	
	tool	Phillips 2		
Tightening torque for terminals				
	min	Nm	2	
	max	Nm	2.5	
	min	lbin	1.5	
	max	lbin	1.8	
Conductor section				
	AWG/kcmil max	8		
<b>Auxiliary circuit characteristics</b>				
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
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Operating current DC13	125V	A	0.11
	600V	A	0.22
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IEC Conventional free air thermal current I <sub>th</sub>		A	10
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Terminals	Auxiliary circuit type		Screw and washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 2
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Conductor section	Auxiliary circuit Flexible w/o lug max	mm <sup>2</sup>	2.5
	Auxiliary circuit Flexible c/w lug max	mm <sup>2</sup>	2.5
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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
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UL/CSA and IEC/EN 60947-5-1 designation			B600-R300
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<b>Ambient conditions</b>			
Operating temperature	min	°C	-25
	max	°C	60
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Storage temperature	min	°C	-50
	max	°C	70
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Compensation temperature	min	°C	-20
	max	°C	60
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Max altitude		m	3000
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<b>Mechanical features</b>			
Operating position	normal allowable		Vertical plan ±30°
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Fixing			Direct mounting on BF09 - BF38
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Weight		g	160
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<b>UL technical data</b>			
Full-load current (FLA) for three-phase AC motor	at 480V	A	0.4
	at 600V	A	0.4
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<b>Dimensions</b>			
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<b>Wiring diagrams</b>			
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<b>Certifications and compliance</b>			
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Compliance	CSA C22.2 n° 14		
	IEC/EN 60947-1		
	IEC/EN 60947-4-1		
	UL508		

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Certifications

CCC

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EAC

ETIM classification

ETIM 8.0

EC000106 -  
Thermal overload  
relay