

Product designation				RF82
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	100	
	aM (IEC)	A	50	
	K5 (UL)	A	175	
Phase failure detection				Yes
Reset mode				Manual
<b>Power circuit characteristics</b>				
Rated insulation voltage $U_i$ IEC/EN		V	690	
Rated impulse withstand voltage $U_{imp}$		kV	8	
Rated operational voltage		V	690	
Operational frequency				
	min	Hz	0	
	max	Hz	400	
Operational current $I_e$				
	Operational current min	A	35	
	Operational current max	A	50	
Tripping class				10A
Test Button				Yes
Trip indicator				Yes
Terminals				
	type		Yoke clamp	
	screw		M5	
	width	mm	9	
	tool		Phillips 2	
Tightening torque for terminals				
	min	Nm	3.9	
	max	Nm	3.9	
	min	lbin	2.88	
	max	lbin	2.88	
Conductor section				
	AWG/kcmil max		2	
<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
Operating current DC13			
	125V	A	0.11
	600V	A	0.22
IEC Conventional free air thermal current I <sub>th</sub>		A	10
Terminals			
	Auxiliary circuit type		Screw and washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
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
Tightening torque for terminals			
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	Ibin	0.74
	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			B600-P600
<b>Ambient conditions</b>			
Operating temperature			
	min	°C	-20
	max	°C	55
Storage temperature			
	min	°C	-55
	max	°C	80
Compensation temperature			
	min	°C	-15
	max	°C	55
Max altitude		m	3000
<b>Mechanical features</b>			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Direct mounting on BF40 - BF94
Weight		g	365
<b>UL technical data</b>			
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	50
	at 600V	A	50
<b>Dimensions</b>			
<b>Wiring diagrams</b>			
<b>Certifications and compliance</b>			
Compliance			
	CSA C22.2 n° 14		
	IEC/EN 60947-1		
	IEC/EN 60947-4-1		
	UL508		
Certifications			
	cULus		

ETIM classification

ETIM 8.0

EC000106 -  
Thermal overload  
relay