

Motor protection relay, phase failure/single-phase sensitive. Three-pole (three-phase), manual resetting. Direct mounting on BG06, BG09, BG12 mini-contactors, 4.5...7.5A



Product designation				11RF9
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	20	
	aM (IEC)	A	8	
	RK5 (UL)	A	25	
Phase failure detection	yes			
Reset mode	Manual			
Power circuit characteristics				
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	4.5	
	Operational current max	A	7.5	
Tripping class	10A			
Test Button	yes			
Trip indicator	yes			
Terminals				
	type	screw and washer		
	screw	M4		
	width	mm	9.8	
	tool	Phillips 2		
Tightening torque for terminals				
	min	Nm	2.3	
	max	Nm	2.3	
	min	lbin	1.7	
	max	lbin	1.7	
Conductor section				
	AWG/kcmil max	10		
Auxiliary circuit characteristics				
Auxiliary contacts				
	NO	Nr.	1	
	NC	Nr.	1	

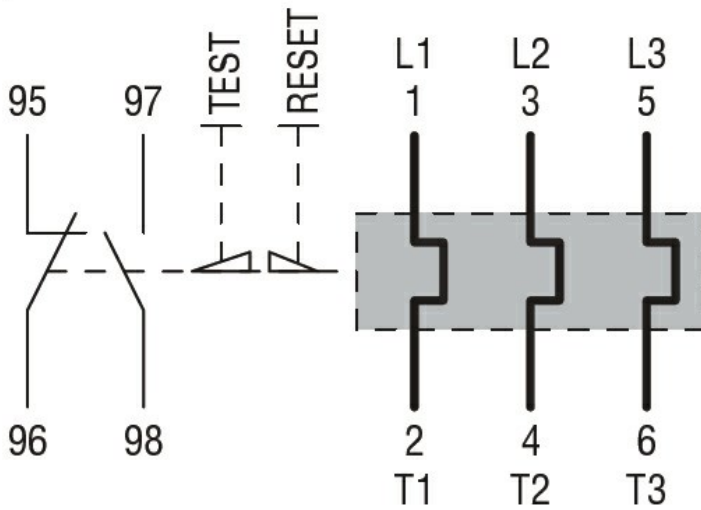
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Auxiliary Rated insulation voltage U_i IEC/EN	V	690
Auxiliary Rated impulse withstand voltage U_{imp}	kV	6
Auxiliary Rated operational voltage	V	690
Operating current AC15		
	24V	A 3
	120V	A 3
	240V	A 1.5
	380V	A 0.95
	480V	A 0.75
	500V	A 0.72
	600V	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 1
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 1
	Auxiliary circuit max	Nm 1
	Auxiliary circuit min	lbin 0.74
	Auxiliary circuit max	lbin 0.74
UL/CSA and IEC/EN 60947-5-1 designation		B600-P600
Ambient conditions		
Operating temperature		
	min	°C -20
	max	°C 55
Storage temperature		
	min	°C -55
	max	°C 70
Compensation temperature		
	min	°C -15
	max	°C 55
Max altitude	m	3000
Mechanical features		
Operating position	normal allowable	Vertical plan ±30°
Fixing		Direct mounting on BG06... BG09... BG12...
Weight	g	116
UL technical data		
Full-load current (FLA) for three-phase AC motor		
	at 480V	A 7.5
	at 600V	A 7.5
Dimensions		

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Wiring diagrams



Certifications and compliance

Compliance

- CSA C22.2 n° 14
- IEC/EN 60947-1
- IEC/EN 60947-4-1
- UL508

Certifications

- CCC
- CSA
- cULus
- EAC

ETIM classification

ETIM 8.0

EC000106 -
Thermal overload
relay