



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)	Α	6
	aM (IEC)	Α	4
	RK5 (UL)	Α	10
Phase failure detection			yes
Reset mode			manual
Power circuit characteristics			
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Rated operational voltage		V	690
Operational frequency			
	min	Hz	0
	max	Hz	400
Operational current le			
- r			
	Operational current min	Α	1.4
	Operational current min Operational current max	A A	1.4 2.3
Tripping class	Operational current min Operational current max	A A	2.3
Tripping class Test Button	-		2.3 10A
Test Button	-		2.3 10A yes
Test Button Trip indicator	-		2.3 10A
Test Button	Operational current max		2.3 10A yes yes
Test Button Trip indicator	-		2.3 10A yes yes screw and
Test Button Trip indicator	Operational current max type		2.3 10A yes yes screw and washer
Test Button Trip indicator	Operational current max  type screw		2.3 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max type	A	2.3 10A yes yes screw and washer M4 9.8
Test Button Trip indicator Terminals	Operational current max  type screw width	A	2.3 10A yes yes screw and washer M4
Test Button Trip indicator	Operational current max  type screw width tool	mm	2.3 10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	Operational current max  type screw width tool min	mm Nm	2.3 10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals	Operational current max  type screw width tool  min max	mm Nm Nm	2.3 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3
Test Button Trip indicator Terminals	Operational current max  type screw width tool min	mm Nm	2.3 10A yes yes screw and washer M4 9.8 Phillips 2
Test Button Trip indicator Terminals  Tightening torque for terminals	Operational current max  type screw width tool  min max min	mm Nm Nm Ibin	2.3 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7
Test Button Trip indicator Terminals	type screw width tool min max min max min max	mm Nm Nm Ibin	2.3 10A yes yes  screw and washer M4 9.8 Phillips 2  2.3 2.3 1.7 1.7
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section	Operational current max  type screw width tool  min max min	mm Nm Nm Ibin	2.3 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section  Auxiliary circuit characteristics	type screw width tool min max min max min max	mm Nm Nm Ibin	2.3 10A yes yes  screw and washer M4 9.8 Phillips 2  2.3 2.3 1.7 1.7
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section	type screw width tool min max min max AWG/kcmil max	mm Nm Nm Ibin Ibin	2.3 10A yes yes  screw and washer M4 9.8 Phillips 2  2.3 2.3 1.7 1.7
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section  Auxiliary circuit characteristics	type screw width tool min max min max min max	mm Nm Nm Ibin	2.3 10A yes yes  screw and washer M4 9.8 Phillips 2  2.3 2.3 1.7 1.7

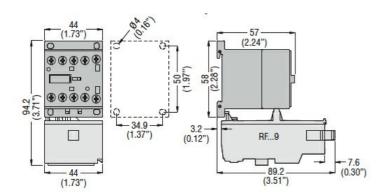


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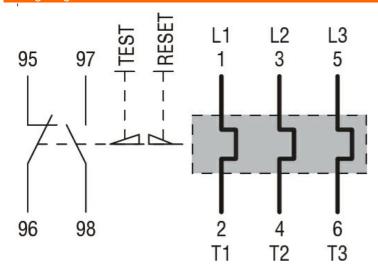
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
EC Conventional free air thermal current Ith		Α	10
erminals			
	A. mallian and a state of		screw and
	Auxiliary circuit type		washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
onductor section	·		·
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
ightening torque for terminals	, ,		
.3	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	lbin	0.74
	Auxiliary circuit max	Ibin	0.74
JL/CSA and IEC/EN 60947-5-1 designation			B600-P600
Imbient conditions			2000 1 000
Operating temperature			
perating temperature	min	°C	-20
	max	°C	55
storage temperature	IIIax		
norago temperaturo	min	°C	-55
		°C	-55 70
ompensation temperature	max	C	10
ompensation temperature	:	°C	15
	min may	°C	-15 55
Max altitude	max		
		m	3000
Mechanical features			
perating position			Month
	normal		Vertical plan
	allowable		±30°
Veight		g	116
JL technical data full-load current (FLA) for three-phase AC motor	at 480V at 600V	Α	2.3 2.3



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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