

## MOTOR PROTECTION RELAY, PHASE FAILURE / SINGLE PHASE SENSITIVE. THREE POLE (THREE PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF95 - BF150 CONTACTORS, 60...82A



Product designation			RF110
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	200
	aM (IEC)	Α	100
	K5 (UL)	Α	250
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			
·	Operational current min	Α	60
	Operational current max	Α	82
Tripping class			10A
Tripping class Test Button			
Test Button			yes
Test Button Trip indicator			
Test Button	type		yes yes
Test Button Trip indicator	type screw		yes yes Yoke clamp
Test Button Trip indicator	type screw width	mm	yes yes
Test Button Trip indicator	screw	mm	yes yes Yoke clamp M5
Test Button Trip indicator Terminals	screw width	mm	yes yes Yoke clamp M5
Test Button Trip indicator	screw width tool		yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	screw width tool min	Nm	yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	screw width tool min Max	Nm Nm	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9
Test Button Trip indicator Terminals	screw width tool  min Max min	Nm Nm Ibin	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88
Test Button Trip indicator Terminals  Tightening torque for terminals	screw width tool min Max	Nm Nm	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9
Test Button Trip indicator Terminals	screw width tool min Max min max	Nm Nm Ibin	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section	screw width tool  min Max min	Nm Nm Ibin	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section  Auxiliary circuit characteristics	screw width tool min Max min max	Nm Nm Ibin	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section	screw width tool  min Max min max  AWG/kcmil max	Nm Nm Ibin Ibin	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section  Auxiliary circuit characteristics	screw width tool  min Max min max  AWG/kcmil max	Nm Nm Ibin Ibin	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section  Auxiliary circuit characteristics	screw width tool  min Max min max  AWG/kcmil max	Nm Nm Ibin Ibin	yes yes Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88

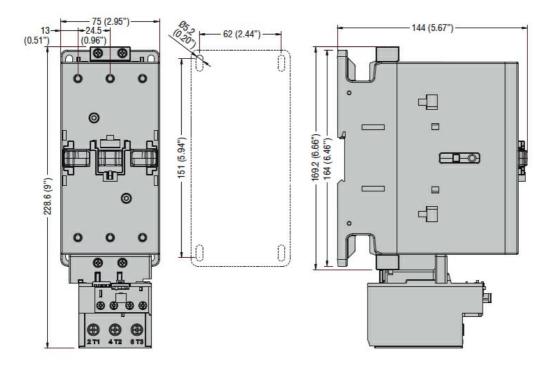


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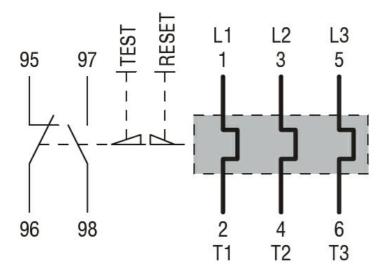
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
	500V	Α	0.72
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	A 111		screw and
	Auxiliary circuit type		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	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	The second secon		
	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
Ambient conditions			
Operating temperature			
a province of the contract of	min	°C	-20
	max	°C	55
Storage temperature			
- · · · · · · · · · · · · · · · · · · ·	min	°C	-55
	max	°C	80
Compensation temperature	max		
- Company of the control of the cont	min	°C	-15
	max	°C	55
Max altitude	IIIdA	 	3000
Max attitude Mechanical features		111	3000
Operating position			
	normal		Vertical plan
	allowable		±30°
Weight	allowable		365
UL technical data		g	303
Full-load current (FLA) for three-phase AC motor			
i dii load cultetit (i LA) loi tillee-pilase AC Illotol	at 480V	۸	82
		Α	
	at 600V	Α	82

**ENERGY AND AUTOMATION** 

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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

cULus