

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF95 - BF150 CONTACTORS, 90...110A



Product designation			RF110
Product type designation			Motor protection relay
General characteristics			
Number of poles		Nr.	3
Overvoltage category			Ш
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
	K5 (UL)	Α	350
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	90
	Operational current min Operational current max	A A	90 110
Tripping class	Operational current min Operational current max		
Tripping class Test Button	-		110
Test Button	-		110 10A Yes
Test Button Trip indicator	-		110 10A
Test Button	Operational current max		110 10A Yes yes
Test Button Trip indicator	-		110 10A Yes yes Yoke clamp
Test Button Trip indicator	Operational current max type screw		110 10A Yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max	A	110 10A Yes yes Yoke clamp M5
Test Button Trip indicator Terminals	Operational current max type screw width	A	110 10A Yes yes Yoke clamp M5
Test Button Trip indicator	Operational current max type screw width tool	mm	110 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width tool min	mm Nm	110 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	Operational current max type screw width tool	mm	110 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm Ibin	110 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88
Test Button Trip indicator Terminals	type screw width tool min max min	mm Nm Nm	110 10A Yes yes Yoke clamp M5 9 Phillips 2
Test Button Trip indicator Terminals Tightening torque for terminals	type screw width tool min max min	mm Nm Nm Ibin	110 10A 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	type screw width tool min max min max	mm Nm Nm Ibin	110 10A 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	type screw width tool min max min max	mm Nm Nm Ibin	110 10A 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	type screw width tool min max min max AWG/kcmil max	mm Nm Nm Ibin Ibin	110 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88
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Test Button Trip indicator Terminals Tightening torque for terminals Conductor section Auxiliary circuit characteristics	type screw width tool min max min max AWG/kcmil max	mm Nm Nm Ibin Ibin	110 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88



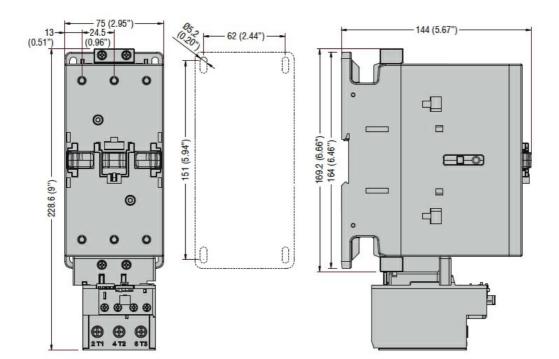
ENERGY AND AUTOMATION

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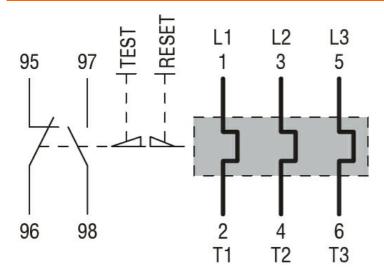
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
	500V	Α	0.72
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
Conductor section			ls & .
	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	, taxillary circuit i loxiloro o, it lug illax		2.0
Tightorning torque for torniniale	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	lbin	0.74
	Auxiliary circuit max	Ibin	0.74
UL/CSA and IEC/EN 60947-5-1 designation	7 taxillary circuit max	101	B600-P600
Ambient conditions			2000 : 000
Operating temperature			
a harama a same	min	°C	-20
	max	°C	55
Storage temperature			
otorago tomporaturo	min	°C	-55
	max	°C	80
Compensation temperature	THOX:		
Compensation temperature	min	°C	-15
	max	°C	55
Max altitude	Шах		3000
Mechanical features			0000
Operating position		_	
Cpo.dailig pooliion	normal		Vertical plan
	allowable		±30°
	anowable		Direct mounting
			on BF95 BF150
Fixing			
		а	365
Weight		g	365
Weight UL technical data		g	365
Weight	at 480V		
Weight UL technical data	at 480V at 600V	g A A	110 110

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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

ETIM classification

ETIM 8.0

EC000106 -Thermal overload relay