

## MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF95 - BF150 CONTACTORS, 70...95A



Deschart de cionette e			DE440
Product designation			RF110
Product type designation			Motor protection relay
General characteristics			· siaj
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	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 le			
Operational current le	Operational current min	Α	70
Operational current le	Operational current min	A A	70 95
	Operational current min Operational current max	A A	95
Tripping class			95 10A
Tripping class Test Button			95 10A Yes
Tripping class Test Button Trip indicator			95 10A
Tripping class Test Button	Operational current max		95 10A Yes yes
Tripping class Test Button Trip indicator	Operational current max		95 10A Yes yes Yoke clamp
Tripping class Test Button Trip indicator	Operational current max  type screw	A	95 10A Yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width		95 10A Yes yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw	A	95 10A Yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width tool	mm	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool min	Mm Nm	95 10A Yes yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool  min max	mm Nm Nm	95 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool  min max min	mm Nm Nm Ibin	95 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88
Tripping class Test Button Trip indicator Terminals  Tightening torque for terminals	Operational current max  type screw width tool  min max	mm Nm Nm	95 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9
Tripping class Test Button Trip indicator Terminals	type screw width tool  min max min max	mm Nm Nm Ibin	95 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Tripping class 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	95 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88
Tripping class 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	95 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Tripping class 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	95 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88
Tripping class 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 Ibin Ibin	95 10A Yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88
Tripping class 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	95 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88

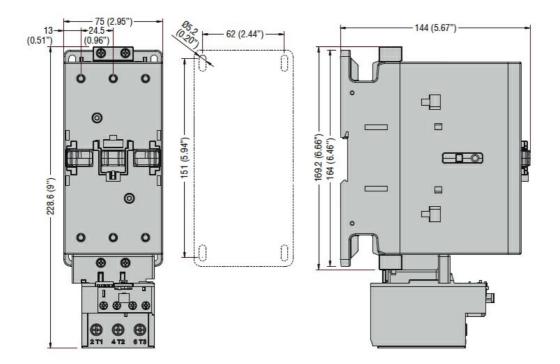


MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF95 - BF150 CONTACTORS, 70...95A

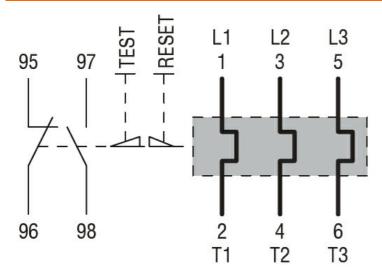
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	Α	1.5
	240V	Α	0.75
	500V	Α	0.72
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
IEC Conventional free air thermal current Ith		A	10
Terminals		,,	10
Terrinida			screw and
	Auxiliary circuit type		washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool	111111	o Phillips 1
Conductor section	Auxiliary direuit tour		i illiilpə i
	Flexible w/o lug max	mm²	2.5
	_		
·	Flexible c/w lug max	mm²	2.5
Fightening torque for terminals	A	N1	4
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	Ibin	0.74
	Auxiliary circuit max	Ibin	0.74
JL/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	80
Compensation temperature			
	min	°C	-15
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Weight		g	365
JL technical data		J	
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	95
		$\overline{}$	J J
	at 600V	Α	95

**ENERGY AND AUTOMATION** 

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF95 - BF150 CONTACTORS, 70...95A



## 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