



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



Product designation			RFA110
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	125
	K5 (UL)	Α	350
Phase failure detection	,		yes
Reset mode			Automatic
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 duffernite	Operational current min	Α	90
Operational durience	Operational current min	A A	90 110
	Operational current min Operational current max	A A	110
Tripping class	-		110 10A
Tripping class Test Button	-		110 10A Yes
Tripping class Test Button Trip indicator	-		110 10A
Tripping class Test Button	Operational current max		110 10A Yes yes
Tripping class Test Button Trip indicator	Operational current max		110 10A Yes yes Yoke clamp
Tripping class Test Button Trip indicator	Operational current max  type screw	A	110 10A Yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width		110 10A Yes yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw	A	110 10A Yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width tool	mm	110 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	110 10A Yes yes  Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm	110 10A Yes yes  Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator 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
Tripping class Test Button Trip indicator Terminals  Tightening torque for terminals	type screw width tool	mm Nm Nm	110 10A Yes yes  Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	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
Tripping class Test Button Trip indicator Terminals  Tightening torque for terminals  Conductor section	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
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	110 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	110 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	110 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	110 10A Yes yes  Yoke clamp M5 9 Phillips 2  3.9 3.9 2.88 2.88

RFA110110





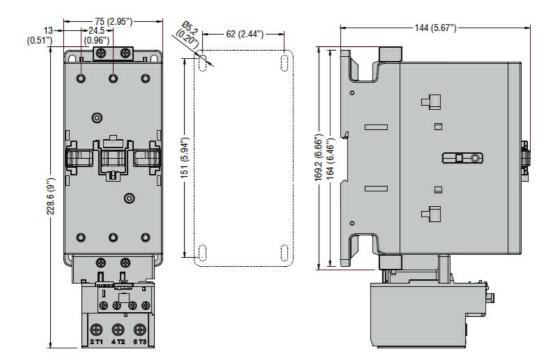
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Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	1.5
	120V	A	1.5
1500	240V	A	0.75
IEC Conventional free air thermal current Ith		Α	10
Terminals			
	Auxiliary circuit type		screw and
	Auvilian circuit agrav		washer
	Auxiliary circuit screw Auxiliary circuit width	mm	M3,5 8
	Auxiliary circuit woll	111111	Phillips 1
Conductor section	Adxillary circuit tool		Fillips i
Conductor Section	Auxiliary circuit Flexible w/o lug max	mm²	2.5
	Auxiliary circuit Flexible c/w lug max	mm²	2.5
Tightening torque for terminals	Administry circuit i exible 6, w lug max	111111	2.0
rightening torque for terminals	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			C300-R300
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°
E			Direct mounting
Fixing			on BF95
Weight			BF150
Weight		g	365
UL technical data			
Full-load current (FLA) for three-phase AC motor	-1.4001/	۸	110
	at 480V	A	110
Dimensions	at 600V	Α	110
Dimensions			

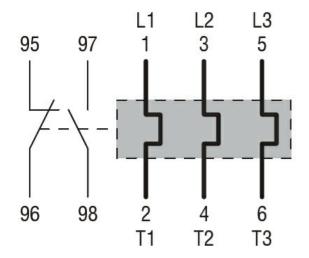


**ENERGY AND AUTOMATION** 

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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

ETIM classification

**ETIM 8.0** 

EC000106 -Thermal overload relay