**ENERGY AND AUTOMATION** 

## MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE **electric** (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS, 46...65A



Dec Late Indianation			DEGG
Product designation			RF82 Motor protection
Product type designation			relay
General characteristics			Tolay
Number of poles		Nr.	3
Overvoltage category			III
Pollution degree			3
Frontal IP degree			IP20
Type of release			Thermal
Protection fuse			morma
Trottodion ruco	gG (IEC)	Α	125
	aM (IEC)	A	80
	K5 (UL)	A	200
Phase failure detection	NO (OL)		yes
Reset mode			Manual
Power circuit characteristics			Iviariuai
Rated insulation voltage Ui IEC/EN		V	690
Rated insulation voltage of IEC/EN  Rated impulse withstand voltage Uimp		kV	8
		V	690
Rated operational voltage		V	690
Operational frequency			•
	min	Hz	0
	max	Hz	400
Operational current le			
		_	
	Operational current min	Α	46
	Operational current min Operational current max	A A	65
Tripping class			
Tripping class Test Button			65
Tripping class Test Button Trip indicator			65 10A
Tripping class Test Button			65 10A yes
Tripping class Test Button Trip indicator			65 10A yes
Tripping class Test Button Trip indicator	Operational current max		65 10A yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max		65 10A yes yes Yoke clamp M5 9
Tripping class Test Button Trip indicator	Operational current max  type screw	A	65 10A yes yes Yoke clamp M5
Tripping class Test Button Trip indicator	Operational current max  type screw width	A	65 10A yes yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width	A	65 10A yes yes Yoke clamp M5 9
Tripping class Test Button Trip indicator Terminals	Operational current max  type screw width tool	mm	65 10A yes yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	type screw width tool	Mm Nm	65 10A yes yes Yoke clamp M5 9 Phillips 2
Tripping class Test Button Trip indicator Terminals	type screw width tool	mm Nm Nm	65 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	65 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  min max min	mm Nm Nm Ibin	65 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 min max min max	mm Nm Nm Ibin	65 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	mm Nm Nm Ibin	65 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	mm Nm Nm Ibin	65 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	65 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	65 10A yes yes Yoke clamp M5 9 Phillips 2 3.9 3.9 2.88 2.88



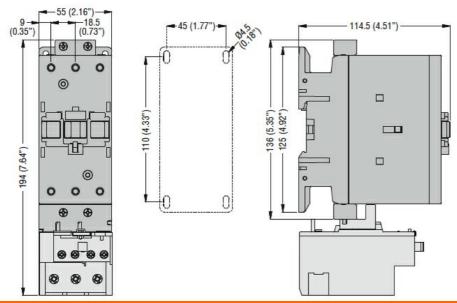
MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE). MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS.

	THREE-FINASE), MANUAL RESETTING. DIRECT MOUNTING ON BF40 - BF94 CONTACTORS,	
<b>ENERGY AND AUTOMATION</b>	4665A	

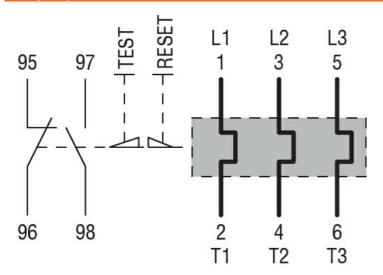
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	Α	3
	120V	Α	3
	240V	Α	1.5
	380V	Α	0.95
	480V	Α	0.75
	500V	Α	0.72
	600V	Α	0.6
Operating current DC13			
	125V	Α	0.11
	600V	Α	0.22
EC Conventional free air thermal current Ith		Α	10
Terminals Terminals			
	Auxiliary circuit type		screw and
			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
Fightening torque for terminals			
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	Ibin	0.74
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation	·		B600-P600
Ambient conditions			
Operating temperature			
3 1	min	°C	-20
	max	°C	55
Storage temperature			
storage temperature	min	°C	-55
	max	°C	80
Compensation temperature	Пах		
Somponoution temperature	min	°C	-15
	max	°C	55
Max altitude	IIIdX		3000
Wax annuae Mechanical features		m	3000
Operating position			\/ortical ml=
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BF40
Weight			365
JL technical data		g	303
Full-load current (FLA) for three-phase AC motor			
uirioad current (FLA) for three-phase AC motor	-4 4001/	٨	6.F
	at 480V	Α	65
	at 600V	Α	65

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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

EC000106 -

Thermal overload

relay

**ETIM 8.0**