THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 50/60HZ, 230VAC



Product designation Power contactor Product type designation **BF94** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 115 Α Operational current le AC-1 (≤40°C) Α 115 AC-1 (≤55°C) Α 95 AC-1 (≤70°C) Α 80 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) kW 30 230V 400V kW 55 415V kW 55 440V kW 55 500V kW 55 690V kW 55 1000V kW 37 Rated operational current AC-3 (T≤55°C) 230V Α 94 400V Α 94 415V Α 94 440V Α 94 500V 78 690V 57 Α 1000V Α 28 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 77 48V Α 66 75V Α 66 110V Α 8 220V IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 110 48V 110

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series

75V

110V

220V

Α

Α

110 90

9



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	≤24V	Α	110
	48V	Α	110
	75V	Α	110
	110V	Α	93
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	115
	48V	Α	115
	75V	Α	115
	110V	Α	110
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	45
	48V	Α	33
	75V	Α	33
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	65
	48V	Α	55
	75V	Α	55
	110V	Α	43
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
'	≤24V	Α	86
	48V	Α	75
	75V	Α	75
	110V	Α	64
	220V	Α	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	96
	48V	Α	95
	75V	Α	95
	110V	Α	80
	220V	Α	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	100
Making capacity (RMS value)	, ,	Α	950
Breaking capacity at voltage			
	440V	Α	640
	500V	Α	625
	690V	Α	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	7.9
	AC-3	W	5.4
Tightening torque for terminals			-
	min	Nm	4
	max	Nm	5
	min	Ibin	3
	max	lbin	3.7

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Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1
Operations			9	
Mechanical life			cycles	15000000
Electrical life			cycles	1100000
Safety related data			2,0.00	
	0d according to EN/ISO 13489-1			
		rated load	cycles	1000000
		mechanical load	cycles	15000000
Mirror contats accordi	ing to IEC/EN 609474-4-1		-,	YES
EMC compatibility	3			yes
AC coil operating				yee
Rated AC voltage at 5	50/60Hz		V	230
AC operating voltage				
5 57 5 50 5	of 50/60Hz coil powered at 50Hz			
	pick-up			
	prox sp	min	%Us	80
		max	%Us	110
	drop-out	max	7000	
	a. sp - sa-	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	max		
	pick-up			
	prox ap	min	%Us	85
		max	%Us	110
	drop-out	max	,000	
	arop out	min	%Us	20
		max	%Us	55
	of 60Hz coil powered at 60Hz	max	,,,,,,	
	pick-up			
	ριοίς αρ	min	%Us	80
		max	%Us	110
	drop-out	IIIAX	/003	110
	αιορ-οαι	min	%Us	20
			%Us %Us	55
		max	/005	JJ



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AC	ourseties at 20°C				
AC average coil cons	•	rod at 50Uz			
	of 50/60Hz coil powe	red at 50HZ	in-rush	VA	210
			holding	VA VA	15
	of 50/60Hz coil powe	rod at 60Hz	Holding	VA	13
	or 50/00Hz coil powe	red at 60HZ	in-rush	VA	195
			holding	VA VA	13
	of 60Hz coil powered	at 60Hz	Holding	٧٨	13
	or dornz con powered	at 00HZ	in-rush	VA	210
			holding	VA	15
Dissipation at holding	n <20°C 50Hz		Holding	W	5
Max cycles frequenc				VV	3
lechanical operation				cycles/h	3600
perating times	ı			Cyclc3/11	3000
verage time for Us	control				
5. 490 11110 101 00	in AC				
		Closing NO			
		5.55mg 110	min	ms	12
			max	ms	28
		Opening NO			-
		, 3	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
		J	min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
JL technical data					
Full-load current (FL	A) for three-phase AC mo	otor			
			at 480V	Α	77
			at 600V	Α	77
ielded mechanical ر	performance				
	for three-phase AC m	notor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
General USE	Contactor				
General USE	Contactor		AC current	A	115
			AC current	Α	115
			AC current	Α	115
	on fuse, 600V		AC current Short circuit current	A kA	115
	on fuse, 600V				
	on fuse, 600V		Short circuit current	kA	100
	on fuse, 600V		Short circuit current Fuse rating	kA	100 200
General USE Short-circuit protection	on fuse, 600V High fault		Short circuit current Fuse rating	kA	100 200
	on fuse, 600V High fault		Short circuit current Fuse rating Fuse class	kA A	100 200 J

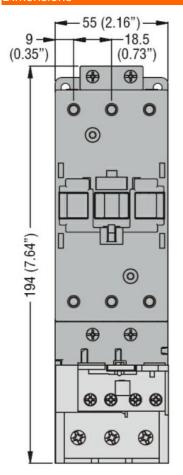
Temperature

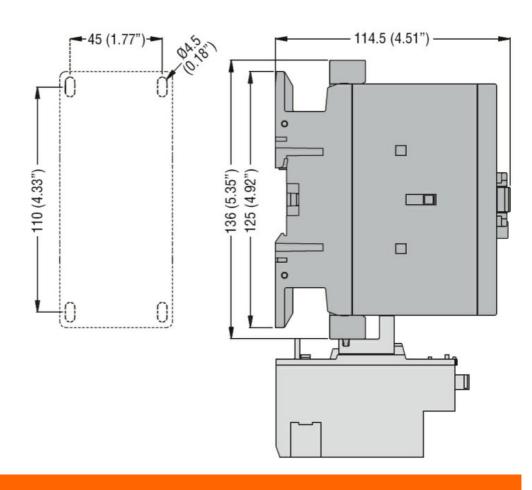
Operating temperature

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 50/60HZ,

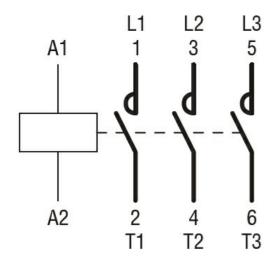
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Discount and			

Dimensions





Wiring diagrams



Certifications and compliance



ENERGY AND AUTOMATION

BF9400A230

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Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching