

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



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) 230V kW 30 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 75V Α 110 90 110V Α 220V 9

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



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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	A	115	
	110V	Α	110	
	220V	A	115	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	- , ,	110	
120 max current le in 200-200 with 2/(2 folia with 1 poles in series	≤24V	Α	45	
	48V	A	33	
	75V	A	33	
	110V	A	3	
IFO to in DO2 DO5 with L/D < 45 with 0 inin	220V	Α	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	40.41.4	•	0.5	
	≤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				
3 p	440V	Α	640	
	500V	A	625	
	690V	A	456	
Resistance per pole (average value)	000 7	mΩ	0.6	
Power dissipation per pole (average value)		11122	5.5	
i omoi dissipation poi poio (average value)	Ith	W	7.9	
	AC-3	W	7.9 5.4	
Tightoning targue for tarminals	AU-3	VV	ა.4	
Tightening torque for terminals		N I.a.:	4	
	min	Nm	4	
	max	Nm	5	
	min	lbin	3	
	max	lbin	3.7	



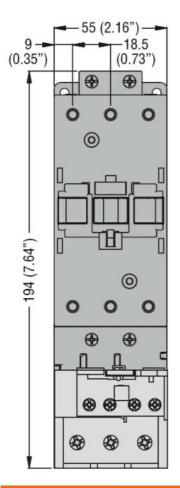
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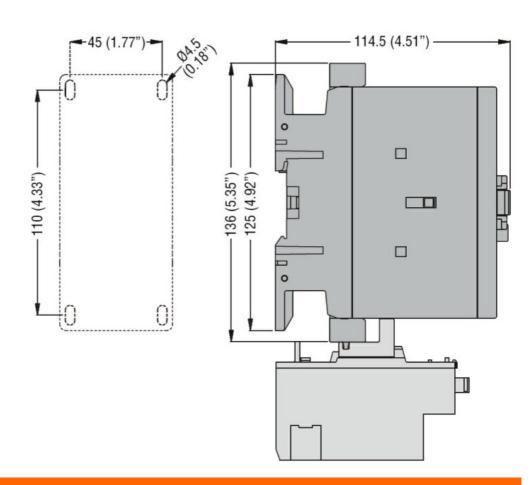
max min max min max min max in-rush holding in-rush holding	%Us	110 20 55 85 110 20 55 210 15 195 13 210 15 5
min max min max min max in-rush holding in-rush holding in-rush	%Us %Us %Us %Us %Us VA VA VA	20 55 85 110 20 55 210 15 195 13 210 15
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min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us VA	20 55 85 110 20 55 210 15
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min max min max in-rush	%Us %Us %Us %Us %Us %Us	20 55 85 110 20 55
min max min max in-rush	%Us %Us %Us %Us %Us %Us	20 55 85 110 20 55
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min max min max min	%Us %Us %Us %Us %Us	20 55 85 110 20
min max min max min	%Us %Us %Us %Us %Us	20 55 85 110 20
min max min max	%Us %Us %Us %Us	20 55 85 110
min max min	%Us %Us %Us	20 55 85
min max min	%Us %Us %Us	20 55 85
min max	%Us %Us	20 55
min	%Us	20
min	%Us	20
min	%Us	20
max	%Us	110
min		80
	V	24
		yes
		YES
	cycles	1100000
	cycles	15000000
	g	1
		35mm
		Screw / DIN rail
allowable		±30°
normal		Vertical plan
		0
mux		IP20
		35
min	mm²	1.5
	INI.	2
ттах		0.74
		0.59
		1
		0.8
	allowable	max Nm min Ibin Ibin Nr. min mm² mm² max mm² normal allowable g cycles cycles

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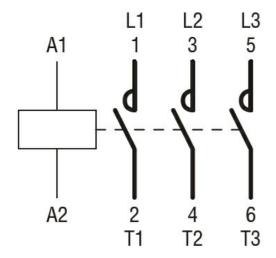
Operating times					
Average time for Us c	ontrol				
Avolugo unio ioi oo o	in AC				
	111710	Closing NO			
		Olosing NO	min	ms	12
			max	ms	28
		Opening NO	Παλ	1113	20
		Opening NO	min	ms	8
					22
	in DC		max	ms	22
	In DC	Clasing NO			
		Closing NO			40
			min	ms	40
		0	max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Full-load current (FLA	.) for three-phase AC m	notor			
			at 480V	Α	77
			at 600V	Α	77
Yielded mechanical pe	erformance				
	for three-phase AC	motor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
	• • • • • • • • • • • • • • • • • • • •		AC current	Α	115
Short-circuit protection	n fuse 600V		7.0 04.10.11	- , ,	110
Orion circuit protection	High fault				
	riigiriault		Short circuit current	kA	100
				A	200
			Fuse rating	А	_
	Cton doud foult		Fuse class		J
	Standard fault		Object already access of	I. A	40
			Short circuit current	kA	10
			Fuse rating	Α	200
A 12 (Fuse class		RK5
Ambient conditions					
Temperature	_				
	Operating temperatu	ıre			
			min	°C	-50
			max	°C	70
	Storage temperature	<u></u>			
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Dimensions					

ENERGY AND AUTOMATION





Wiring diagrams



Certifications and compliance

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



BF9400A024

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cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching