

BF9400A23060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 60HZ, 230VAC



Product designation			Power contactor
Product type designation			BF94
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	115
Operational current le			-
	AC-1 (≤40°C)	А	115
	AC-1 (≤55°C)	A	95
	AC-1 (≤70°C)	A	80
	AC-3 (≤440V ≤55°C)	A	95
	AC-4 (400V)	A	45
Rated operational power AC-3 (T≤55°C)	7.0 1 (1007)		
	230V	kW	30
	400V	kW	55
	400V 415V	kW	55
	440V	kW	55
	500V	kW	55
	690V	kW	55
	1000V	kW	37
Rated operational current AC-3 (T≤55°C)	10001		01
	230V	А	94
	400V	A	94
	400V 415V	A	94
	440V	A	94
	500V	A	78
	690V	A	57
	1000V	A	28
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	10001		20
	≤24V	А	77
	48V	A	66
	75V	A	66
	110V	A	8
	220V	A	-
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series	2201	<u></u>	
	≤24V	А	110
	48V	A	110
	48V 75V	A	110
	110V	A	90
	220V		
	2200	A	9

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



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	≤24V	А	110
	48V	A	110
	75V	A	110
	110V	A	93
	220V	A	
IFC may aureant to in DC1 with 1/D < 1 may with 4 nation in partice	220 V	A	95
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	-041/	٨	445
	≤24V	A	115
	48V	A	115
	75V	А	115
	110V	А	110
	220V	A	115
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	Α	45
	48V	Α	33
	75V	А	33
	110V	А	3
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	65
	48V	A	55
	48V 75V	A	55
	110V		
		A	43
	220V	A	5
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	86
	48V	А	75
	75V	А	75
	110V	А	64
	220V	Α	64
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	96
	48V	А	95
	75V	А	95
	110V	А	80
	220V	А	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			010
	gG (IEC)	А	125
			100
Making consoity (PMS value)	aM (IEC)	A A	950
Making capacity (RMS value)		A	950
Breaking capacity at voltage	44017	Δ	C 4 0
	440V	A	640
	500V	A	625
	690V	<u>A</u>	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	lth	W	7.9
	AC-3	W	5.4
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	3
	max	Ibin	3.7
	max		~



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electric		(,	, , , , , , , , , , , , , , , , , , ,
ENERGY AND AUTOMATION				230VAC
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	tion according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
-				35mm
Veight			g	1
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1100000
Safety related data				
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				000
Rated AC voltage at 6	UHZ		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out		0/11-	00
		min	%Us	20
	of 50/001 to opil new grad at 001 to	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		min	%Us %Us	85 110
	drop-out	max	/005	110
	arop-out	min	%Us	20
		max	%Us	55
	of 60Hz coil powered at 60Hz	IIIdX	/003	
	pick-up			
	μισκ-αμ	min	%Us	80
		max	%Us %Us	110
	drop-out	Παλ	/003	
	diop-out	min	%Us	20
		11111	/005	20

AC average coil consumption at 20°C

of 60Hz coil powered at 60Hz			
	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			

Average time for Us control

%Us

max

55

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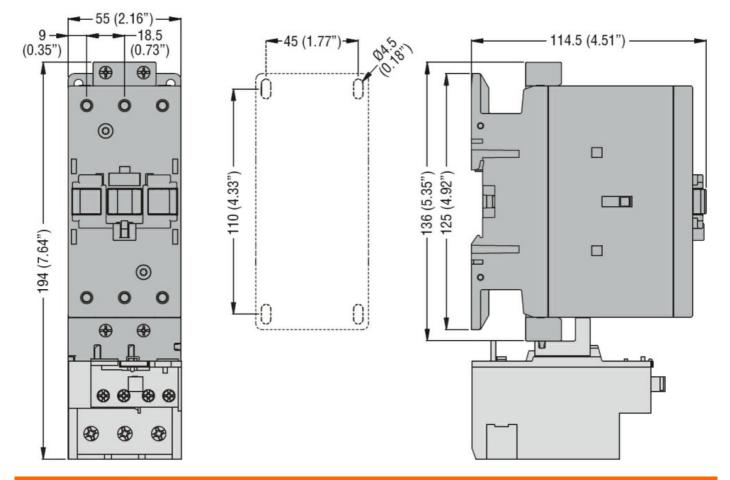
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	in AC				
		Closing NO			
		-	min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO	min		20
			min	ms	20 55
UL technical data			max	ms	55
Full-load current (FLA) for three-phase A	C motor			
			at 480V	А	77
			at 600V	A	77
Yielded mechanical p	erformance		4.0007		
······	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	А	115
Short-circuit protectio	on fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	А	200
			Fuse class		J
	Standard fault				4.0
			Short circuit current	kA	10
			Fuse rating	A	200 BK5
Ambient conditions			Fuse class		RK5
Temperature					
Inpolatione	Operating tempe	erature			
	oporating tompt		min	°C	-50
			max	°Č	70
	Storage tempera	ature		-	-
	21212.30 101.1001		min	°C	-60
			max	°Č	80
Max altitude				m	3000
Dimensions					

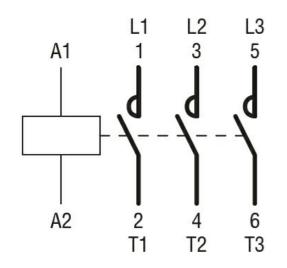
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Wiring diagrams



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

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CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching