

BF9400A22060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 60HZ, 220VAC



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	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201	~~~~	50
	≤24V	А	115
	48V	A	115
	48V 75V		
	110V	A	115
		A	110
IFC may summant to in DC2 DCE with L/D < 45 ms with 4 mstas in series	220V	A	115
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	<04)/	۸	A F
	≤24V	A	45
	48V	A	33
	75V	A	33
	110V	А	3
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	65
	48V	А	55
	75V	А	55
	110V	А	43
	220V	А	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	86
	48V	А	75
	75V	А	75
	110V	A	64
	220V	A	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		01
	≤24V	А	96
	48V	A	95
	48V 75V	A	95
	110V	A	80
	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A A	640
		A	640
Protection fuse		•	405
	gG (IEC)	A	125
	aM (IEC)	A	100
Making capacity (RMS value)		A	950
Breaking capacity at voltage			
	440V	A	640
	500V	А	625
	690V	А	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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ENERGY AND AUTOMATION				220VAC
Tightening torque for co	pil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	Ibin	0.74
	multaneously connectable		Nr.	2
Conductor section				
	Flexible w/o lug conductor section		2	
		min	mm²	1.5
-		max	mm²	35
	ion according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1100000
Safety related data				
Mirror contats accordin	g to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60)Hz		V	220
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consul	mption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210

	in-rush N	/A 210	
	holding	/A 15	
Dissipation at holding ≤20°C 50Hz		W 5	
Max cycles frequency			
Mechanical operation	сус	les/h 3600)
Operating times			
Average time for Us control			

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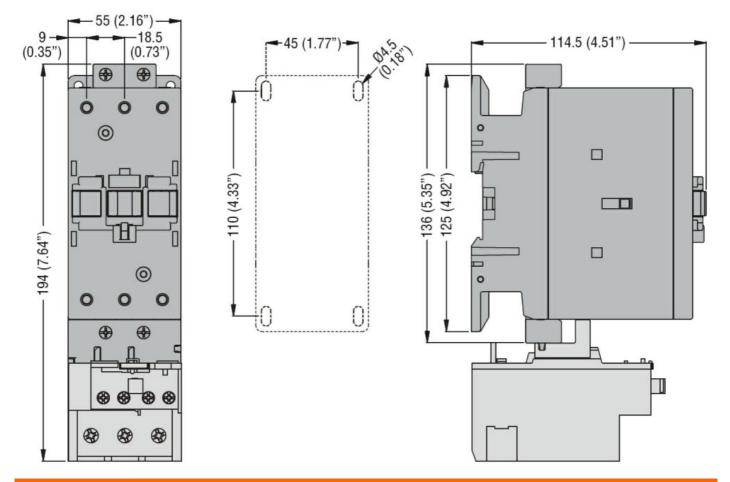
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	in AC	Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO	min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Full-load current (FLA) for three-phase AC mo	otor		-	
			at 480V	A	77
Violded meshaniaal n			at 600V	A	77
Yielded mechanical pe	for three-phase AC m	otor			
	Ior unree-phase AC III		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					
	High fault		Short circuit current	kA	100
			Fuse rating	ка А	200
			Fuse class	A	J
	Standard fault				-
			Short circuit current	kA	10
			Fuse rating	А	200
			Fuse class		RK5
Ambient conditions					
Temperature	Operating to product	^			
	Operating temperatur	e	min	°C	-50
			max	°C	-50 70
	Storage temperature		max	0	
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Dimensions					

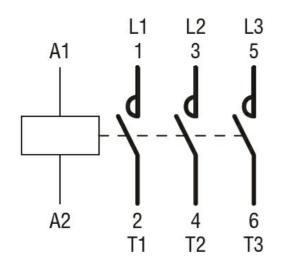
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Wiring diagrams



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	
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cULus	
EAC	
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching