

BF4000A23060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 60HZ, 230VAC



Product designation			Power contactor
Product type designation Contact characteristics			BF40
Number of poles		Nr.	3
		V	1000
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp		kV	8
		KV	0
Operational frequency			25
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	70
Operational current le			
	AC-1 (≤40°C)	A	70
	AC-1 (≤55°C)	А	60
	AC-1 (≤70°C)	A	50
	AC-3 (≤440V ≤55°C)	A	40
	AC-4 (400V)	A	24
Rated operational power AC-3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	22
Rated operational current AC-3 (T≤55°C)			
	230V	А	40
	400V	А	40
	415V	А	40
	440V	А	40
	500V	А	33
	690V	А	32
	1000V	А	21
Rated operational power AC-1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	40
	48V	A	35
	48V 75V	A	30
	110V	A	8
	220V	A	0
IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series	220 V	~	-
$L \cup \max \bigcup \bigcup$		-	

≤24V

48

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	48V	А	48
	75V	А	45
	110V	А	42
	220V	Α	5
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	48
	48V	А	48
	75V	А	48
	110V	А	44
	220V	А	56
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	_
	220V	А	70
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
,	≤24V	А	27
	48V	A	23
	75V	A	19
	110V	A	3
	220V	A	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	32
	48V	A	30
	75V	A	27
	110V	A	22
	220V	A	5
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series	2201	Α	0
	≤24V	А	40
	48V	A	40
	48V 75V	A	38
	110V	A	27
	220V	A	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201	A	32
IEC max current le in DC3-DC3 with L/K = 15ms with 4 poles in series	≤24V	۸	
	≤24∨ 48V	A	-
	46V 75V	A	-
	75V 110V	A A	_
	220V		_ 40
Short-time allowable current for 10s (IEC/EN60947-1)	22U V	A A	40
Protection fuse		A	400
FIDLECHOTHUSE		^	100
	gG (IEC)	A	100
Making apparity (DMC value)	aM (IEC)	A	50
Making capacity (RMS value)		A	400
Breaking capacity at voltage			
	440V	A	320
	500V	A	265
	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	3.9
	AC-3	W	1.3
Tightening torque for terminals			



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		min	Nm	1
			Nm	4 5
		max		
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	· · · · · · · · · · · · · · · · · · ·			
	AWG/Kcmil			
	AWOAChin	may		2
	Elevible w/e lue conductor contion	max		2
	Flexible w/o lug conductor section		2	
		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 front
Mechanical features				
Operating position				
51		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Maight			~	1020
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
	ő	rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contate accord	ing to IEC/EN 609474-4-1	moonamoanoau	0,000	
	119 10 100/011 003474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	DUHZ		V	230
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		-	
		min	%Us	20
		max	%Us	55
	umption at 20°C	IIIdX	/003	00
AC average coil cons				
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15





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Dissipation at holding	1 <20°C 50Hz			W	5
Max cycles frequenc				VV	5
Mechanical operation				cycles/h	3600
Operating times	•			eyelee/11	0000
Average time for Us	control				
	in AC				
		Closing NO			
		0	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			00
			min	ms	20
			max	ms	55
UL technical data	$\Lambda$ for three phase $\Lambda C$	motor			
Full-load current (FL/	A) for three-phase AC r		at 480V	А	40
			at 600V	A	40 32
Yielded mechanical p	orformanco		at 000 v	~	52
	for single-phase AC	motor			
	ior single-phase Ac		110/120V	HP	3
			230V	HP	7.5
	for three-phase AC	motor	2007		1.0
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE					
	Contactor				
			AC current	А	70
Short-circuit protection	on fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	А	150
			Fuse class		J
	Standard fault		<b>.</b>		_
			Short circuit current	kA	5
			Fuse rating	А	150 DK5
Anabianation l'iteration			Fuse class		RK5
Ambient conditions					
Temperature	On exeting a target of				
	Operating temperat	uie	<b></b>	°C	-50
			min	°C	-50 70
	Storago tomporatur	2	max	U	10
	Storage temperatur	C	min	°C	-60
			max	°C	80
Max altitude			Παλ	 	3000

**BF4000A23060** The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

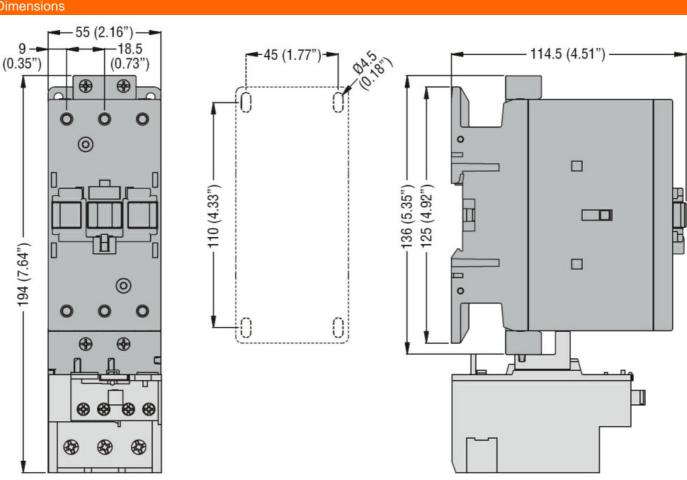


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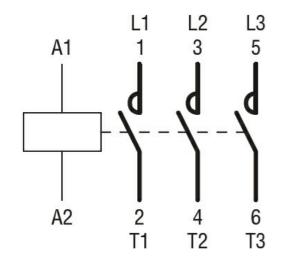
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## Pollution degree





## 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



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Certificates		
	CCC	
	cULus	
ETIM classification	tion	
		EC000066 -
ETIM 8.0		Power contactor,

Power contactor, AC switching