

BF4000A57560 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 60HZ, 575VAC



Product designation Product type designation			Power contactor BF40
Contact characteristics			DI IO
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	70
Operational current le			
	AC-1 (≤40°C)	А	70
	AC-1 (≤55°C)	А	60
	AC-1 (≤70°C)	А	50
	AC-3 (≤440V ≤55°C)	А	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 ≤ 1ms with 1 poles in series			
	≤24V	А	40
	48V	А	35
	75V	А	30
	110V	А	8
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	10 A V	•	10

≤24V

48

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	48V	Α	48
	75V	А	45
	110V	А	42
	220V	А	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	48
	48V	A	48
	48V 75V		48
		A	
	110V	A	44
	220V	Α	56
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	A	-
	48V	А	-
	75V	Α	-
	110V	Α	-
	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	А	30
	75V	A	27
	110V	Α	22
	220V	А	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	40
	48V	А	40
	75V	А	38
	110V	A	27
	220V	A	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201	Α	52
TEC max current le in DCS-DCS with Err 3 15ms with 4 poles in series	<241/	۸	
	≤24V	A	-
	48V	A	-
	75V	Α	-
	110V	А	-
	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	А	100
	aM (IEC)	А	50
Making capacity (RMS value)		А	400
Breaking capacity at voltage			
	440V	А	320
	500V	A	265
	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	lth	W	3.9
	AC-3	W	1.3
Tightening torque for terminals			



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		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for o	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			
		max		2
	Flexible w/o lug conductor section	The A		
		min	mm²	1.5
			mm²	35
		max	11111	00
	Flexible c/w lug conductor section			4 5
		min	mm²	1.5
		max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations		IIIdA		2
			avalaa	4500000
Mechanical life			cycles	1500000
Electrical life			cycles	1500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	60Hz		V	575
AC operating voltage				
no operating reliage	of 60Hz coil powered at 60Hz			
	pick-up		%Us	80
		min		
	· · · ·	max	%Us	110
	drop-out		0/11	
		min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			
AC average coil cons	umption at 20°C of 60Hz coil powered at 60Hz			
AC average coil consi	-	in-rush	VA	210
AC average coil cons	-	in-rush holding	VA VA	210 15





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Dissipation at holdi			W	5
Max cycles frequer			ovelee/b	2600
Mechanical operation			cycles/h	3600
Average time for U	s control			
	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
	in DC	max	ms	22
	IN DC Closing NO			
		min	ms	40
		max	ms	85
	Opening NO	max	1115	
	opointy to	min	ms	20
		max	ms	55
JL technical data				
Full-load current (F	LA) for three-phase AC motor			
		at 480V	А	40
		at 600V	А	32
Yielded mechanica				
	for single-phase AC motor			_
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	200/2001		10
		200/208V 220/230V	HP HP	10 15
		460/480V	HP	30
		575/600V	HP	30
General USE		010/0001		00
	Contactor			
	Contactor	AC current	А	70
Short-circuit protec	tion fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	150
A		Fuse class		RK5
Ambient conditions				
Femperature	Operating temperature			
	Operating temperature	min	°C	-50
		min	°C	-50 70
	Storage temporature	max	C	10
	Storage temperature	min	°C	-60
		max	°C	80
Max altitude		IIIdA	 	3000
Resistance & Prote	action			5000

BF4000A57560 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

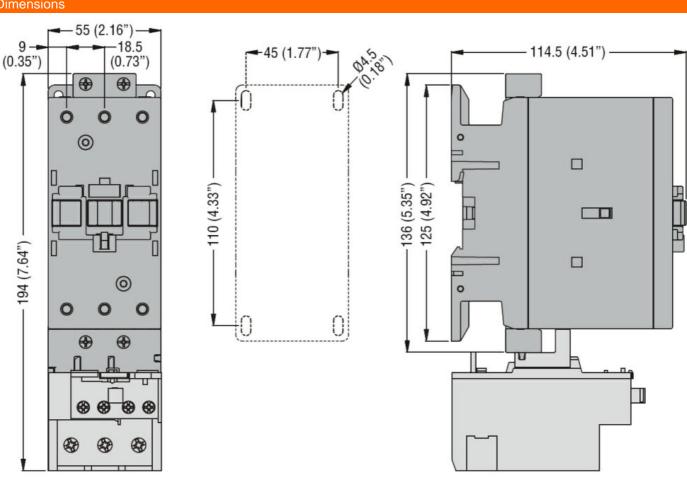


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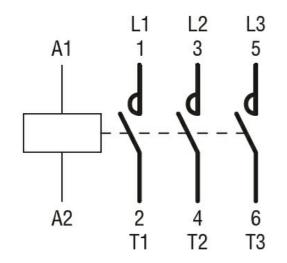
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Pollution degree





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 classificat	lion	
		EC000066 -
ETIM 8.0		Power contactor,

Power contactor, AC switching