

BF6500A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 60HZ, 120VAC



Product designation			Power contactor
Product type designation			BF65
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		IX V	0
Operational frequency			05
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	100
Operational current le			
	AC-1 (≤40°C)	A	100
	AC-1 (≤55°C)	А	80
	AC-1 (≤70°C)	Α	70
	AC-3 (≤440V ≤55°C)	А	65
	AC-4 (400V)	А	31
Rated operational power AC-3 (T≤55°C)			
	230V	kW	18.5
	400V	kW	30
	415V	kW	37
	440V	kW	37
	500V	kW	37
	690V	kW	45
	1000V	kW	30
Rated operational current AC-3 (T≤55°C)	10001		
	230V	А	65
	230V 400V		65
	400V 415V	A	
		A	65
	440V	A	65
	500V	A	53
	690V	A	47
	1000V	A	25
Rated operational power AC-1 (T≤40°C)			
	230V	kW	38
	400V	kW	65
	500V	kW	82
	690V	kW	114
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	50
	48V	А	50
	75V	A	50
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	2201		
$1 \ge 0$ max out on the integer with $E(X) \ge 0$ mis with Z poles in selies			

≤24V

70

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ENERGY AND AUTOMATION

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	48V	А	70
	75V	А	70
	110V	А	60
	220V	A	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2201		0
IEC max current le in DCT with L/K ≤ mis with 5 poles in series	<2417	۸	70
	≤24V	A	70
	48V	А	70
	75V	А	70
	110V	А	60
	220V	Α	90
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	70
	48V	А	70
	75V	A	70
	110V	A	70
	220V	A	110
	2200	A	110
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			0.5
	≤24V	Α	35
	48V	А	25
	75V	А	25
	110V	А	3
	220V	А	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	45
	48V	A	40
	75V	A	40
	110V	А	30
	220V	А	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	55
	48V	А	50
	75V	А	50
	110V	А	35
	220V	A	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201	~	52
The max current le in DC3-DC3 with $L/R \leq 15005$ with 4 poles in series	<2417	۸	<u> </u>
	≤24V	A	60
	48V	A	60
	75V	А	60
	110V	А	50
	220V	А	65
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	650
Breaking capacity at voltage		17	
Dicaning capacity at voltage	4 4 0 1 /	٨	520
	440V	A	520
	500V	A	425
	690V	A	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	8
	AC-3	W	3.4
Tightening torque for terminals			



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		min	Nm	٨
			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	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	,			
	AWG/Kcmil			
	AW O/Kemin	max		2
	Flowible w/a lug conductor contion	Παλ		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	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
	3 1 1 1	rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contate accordi	ing to IEC/EN 600474 4 1	meenamearioad	Cycles	
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	60Hz		V	120
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	max		
		min	%Us	20
	umption at 20°C	max	%Us	55
AC average coil cons	-			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15





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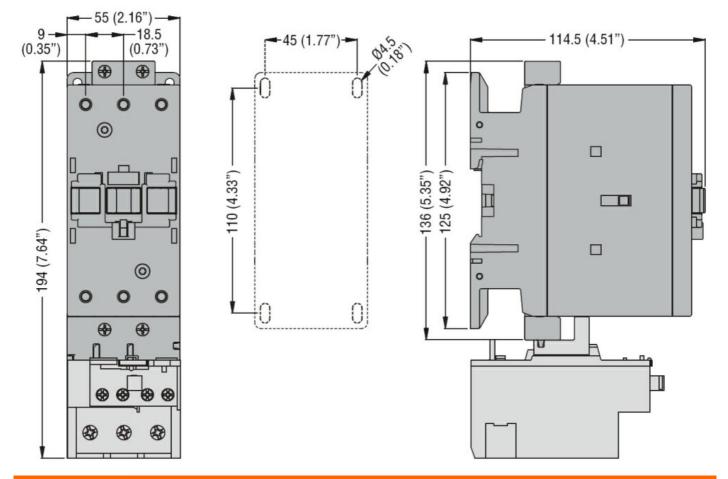
Dissipation at holdi	ng ≤20°C 50Hz			W	5
Max cycles frequer	•				
Mechanical operati	on			cycles/h	3600
Operating times					
verage time for U	s control				
Ū	in AC				
		Closing NO			
		Ū	min	ms	12
			max	ms	28
		Opening NO			
		515 5 5	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
		crooning into	min	ms	40
			max	ms	85
		Opening NO	Шах	mo	00
			min	ms	20
			max	ms	20 55
JL technical data				1115	55
	(I A) for three phase /	C motor			
un-ioau current (F	LA) for three-phase A			^	6 F
			at 480V	A	65
<u> </u>			at 600V	Α	62
rielded mechanica	-				
	for three-phase	AC motor			
			200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE					
	Contactor				
			AC current	Α	100
Short-circuit protec	tion fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	А	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	A	200
			Fuse class		RK5
Ambient conditions	;				
Femperature					
	Operating temp	erature			
	operating temp		min	°C	-50
			max	°C	70
	Storage tomos	aturo	IIIdX	0	10
	Storage tempera	aluie		°C	60
			min		-60
			max	°C	80
Max altitude				m	3000
Resistance & Prote	ection				
Pollution degree					3
Dimensions					

BF6500A12060 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

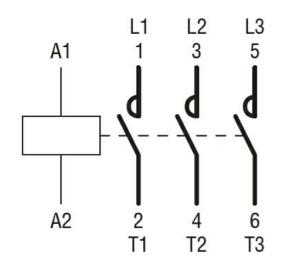
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Wiring diagrams



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

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching