

BF6500A46060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 60HZ, 460VAC



Product designation			Power contactor
Product type designation			BF65
Contact characteristics			<u>^</u>
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		A	100
Operational current le			
	AC-1 (≤40°C)	А	100
	AC-1 (≤55°C)	А	80
	AC-1 (≤70°C)	А	70
	AC-3 (≤440V ≤55°C)	А	65
	AC-4 (400V)	Α	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)			
	230V	А	65
	400V	А	65
	415V	А	65
	440V	А	65
	500V	А	53
	690V	А	47
	1000V	А	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 $L/R \le 1$ ms with 1 poles in series			
. ,	≤24V	А	50
	48V	A	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	23	
$1 \ge 0$ max suffer to in DO1 with $E/12 \ge 0$ mis with 2 points in 30165		_	

≤24V

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	48V	А	70
	75V	А	70
	110V	А	60
	220V	А	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70
	110V	А	60
	220V	A	90
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	70
	48V	A	70
	48V 75V	A	70
	110V	A	70
	220V	A	110
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			05
	≤24V	A	35
	48V	А	25
	75V	A	25
	110V	Α	3
	220V	Α	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	Α	45
	48V	А	40
	75V	А	40
	110V	А	30
	220V	А	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
·	≤24V	А	55
	48V	A	50
	75V	A	50
	110V	A	35
	220V	A	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201	Λ	52
	≤24V	۸	60
	≤24V 48V	A A	60 60
	75V	A	60 50
	110V	A	50
	220V	<u>A</u>	65
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse		-	
	gG (IEC)	A	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	650
Breaking capacity at voltage			
	440V	А	520
	500V	А	425
	690V	А	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
· · · · · · · · · · ·	lth	W	8
	AC-3	W	3.4
Tightening torque for terminals			



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		min	Nm	4
			Nm	5
		max		
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	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	Пах		2
	Tiexible w/o lug conductor section	min	mm^2	1 5
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section		_	
		min	mm²	1.5
		max	mm²	35
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			a	1020
Conductor section			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			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility	<u> </u>			yes
AC coil operating				,
Rated AC voltage at 6	0Hz		V	460
			v	400
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
AC average coil consi	umption at 20°C			
<u> </u>	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA VA	15
		noiuirig	٧A	





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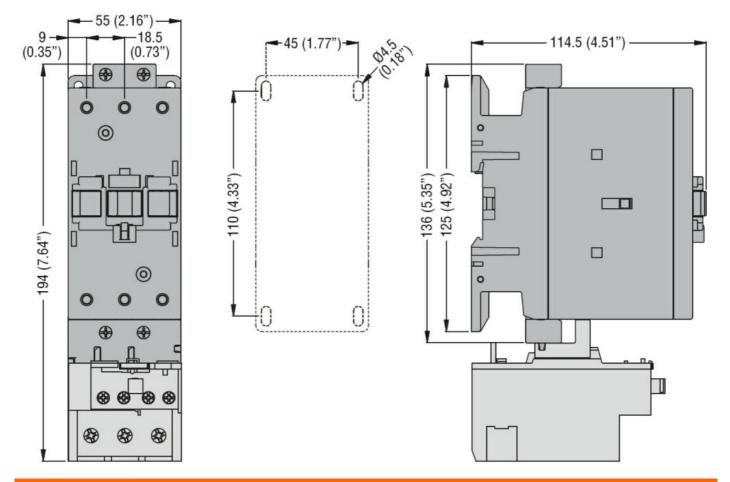
Dissipation at holdin	-			W	5
Max cycles frequenc					
Mechanical operation	n			cycles/h	3600
Operating times Average time for Us	control				
Average lime for US	in AC				
		Closing NO			
		5	min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC	Closing NO			
		Closing NO	min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Full-load current (FL	A) for three-phase A	C motor			<u></u>
			at 480V at 600V	A A	65 62
Yielded mechanical	nerformance		at 000V	A	02
Tielded mechanical	for three-phase A	AC motor			
			200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE					
	Contactor				100
			AC current	A	100
Short-circuit protecti	High fault				
	riigi lauit		Short circuit current	kA	100
			Fuse rating	A	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	А	200
Ambient			Fuse class		RK5
Ambient conditions Temperature					
remperature	Operating tempe	rature			
	operating tempe		min	°C	-50
			max	°Č	70
	Storage tempera	ture			
	-		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protec	tion				2
Pollution degree					3
Dimensions					

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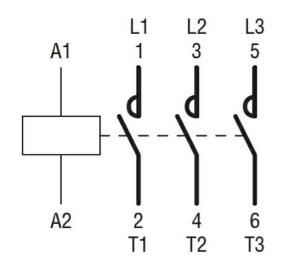
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Wiring diagrams



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

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching