BF5000A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 50/60HZ, 230VAC



Product designation			Power contactor
Product type designation			BF50
Contact characteristics			Broo
Number of poles		nr.	3
		V	1000
Rated insulation voltage Ui			
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	90
Operating current			
	Operational current AC1 (≤40°C)	А	90
	Operational current AC3 (≤440V ≤55°C)	А	50
	Operational current AC4 (400V)	А	28
Rated operational power AC1 (T≤40°C)	· · · ·		
	230V	kW	34
	400V	kW	59
	500V	kW	74
	690V	kW	102
Rated operational power AC3A (T≤55°C)	0001		102
	Poted operational new or AC2 (T<55°C) 220	N/ L/A/	15
	Rated operational power AC3 (T≤55°C) 230		
	Rated operational power AC3 (T<55°C) 400		22
	Rated operational power AC3 (T≤55°C) 415		30
	Rated operational power AC3 (T≤55°C) 440		30
	Rated operational power AC3 (T≤55°C) 500		30
	Rated operational power AC3 (T≤55°C) 690		37
	Rated operational power AC3 (T≤55°C) 100	00VkW	22
Short-time allowable current for 10s (IEC/EN6	60947-1)	Α	400
Protection fuse			
	gG (IEC)	А	100
	aM (IEC)	А	50
Making capacity (RMS value)		А	500
Breaking capacity at voltage			
3 - 1 - 3 3 -	Breaking capacity 440V	А	400
	Breaking capacity 500V	A	352
	Breaking capacity 690V	A	312
Posistance per pole (average value)	Dicaking capacity 000 v	mΩ	0.8
Resistance per pole (average value)		11152	0.0
Power dissipation per pole (average value)			o -
	Power dissipation pole (average value) Ith	W	6.5
	AC3	W	2
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbft	2.95

lbft

max

3.69



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Tightening torque for c	coil terminal		Niss	0.0
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	ő	min	mm²	1.5
		max	mm²	35
Power terminal protect	tion according to IEC/EN 60529	Пал		IP20 front
Auxiliary contact chara				
Operational current AC			А	90
Operating current DC1			Λ	50
Operating current DC	15			Screw / DIN rail
		110V	А	35mm
Ambient conditione				3311111
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Maria				Screw / DIN rail
Mounting				35mm
Weight			g	1.02
Operations			5	
Mechanical life			Cycles	15000000
Electrical life			Cycles	1400000
Safety related data			Cycles	1400000
-	0d according to EN/ISO 13489-1			
	ou according to EIV/ISO 13409-1	rotod local	Ciali	1400000
		rated load	Cicli	1400000
Minnen eentete en e		mechanical load	Cicli	1500000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			

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		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.4
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	J. J		
	·	in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz		W	5.0
Max cycles frequency				
Max cycles frequency Mechanical operations			Cycles/h	3600
Mechanical operations			Cycles/h	3600
Mechanical operations Operating times			Cycles/h	3600
Mechanical operations			Cycles/h	3600
Mechanical operations Operating times	ontrol in AC		Cycles/h	3600
Mechanical operations Operating times	ontrol	min		
Mechanical operations Operating times	ontrol in AC	min max	ms	12
Mechanical operations Operating times	ontrol in AC Closing NO	min max		
Mechanical operations Operating times	ontrol in AC	max	ms ms	12 28
Mechanical operations Operating times	ontrol in AC Closing NO		ms	12
Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO	max	ms ms ms	12 28 8
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO	max	ms ms ms	12 28 8
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC Closing NO	max min max	ms ms ms ms	12 28 8 22
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO	max min max at 480V	ms ms ms ms	12 28 8 22 52
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO for three-phase AC motor	max min max	ms ms ms ms	12 28 8 22
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V	ms ms ms ms	12 28 8 22 52
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 600V	ms ms ms ms A A	12 28 8 22 52 41
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 600V at 110/120V	ms ms ms Ms A A	12 28 8 22 52 41 5
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 600V	ms ms ms ms A A	12 28 8 22 52 41
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 480V at 600V at 110/120V at 230V	ms ms ms ms A A A	12 28 8 22 52 41 5 10
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 480V at 600V at 110/120V at 230V at 200/208V	ms ms ms ms A A A hp hp	12 28 8 22 52 41 5 10 15
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 480V at 600V at 600V at 200/208V at 220/208V at 220/230V	ms ms ms ms A A hp hp hp	12 28 8 22 52 41 5 10 15 20
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 600V at 600V at 200V at 230V at 220/230V at 220/230V at 460/480V	ms ms ms A A A hp hp hp	12 28 8 22 52 41 5 10 15 20 40
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 480V at 600V at 600V at 200/208V at 220/208V at 220/230V	ms ms ms ms A A hp hp hp	12 28 8 22 52 41 5 10 15 20
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO for three-phase AC motor for single-phase AC motor for three-phase AC motor	max min max at 480V at 600V at 600V at 200V at 230V at 220/230V at 220/230V at 460/480V	ms ms ms A A A hp hp hp	12 28 8 22 52 41 5 10 15 20 40
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC Closing NO Opening NO for three-phase AC motor	max min max at 480V at 600V at 600V at 200V at 230V at 220/230V at 220/230V at 460/480V	ms ms ms A A A hp hp hp	12 28 8 22 52 41 5 10 15 20 40

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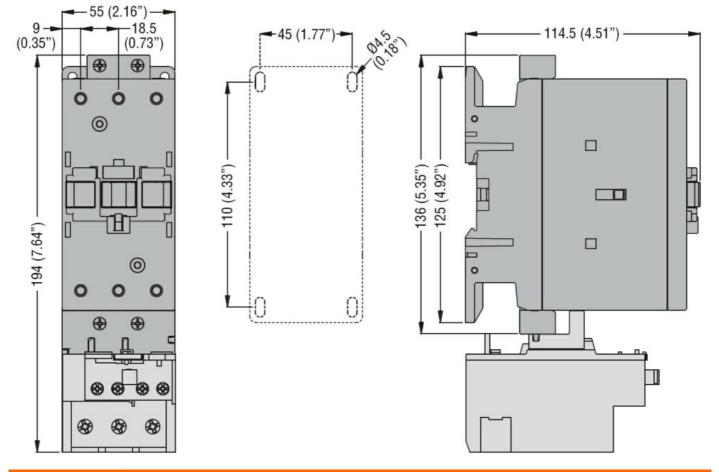
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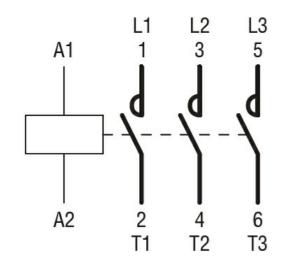
ENERGY AND AUTOMATION

Other features

Pollution degree Dimensions



Wiring diagrams



Certifications and compliance

CSA C22.2 n° 60947-1		
CSA C22.2 n° 60947-4-1		
IEC/EN 60947-1		
IEC/EN 60947-4-1		
UL 60947-1		



Certifications



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	UL 60947-4-1	
Compliance		
	CCC	
	cULus	
ETIM 6 classification	ึงท	

EC000066 - Power contactor, AC switching