## BF8000A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ, 230VAC



Product designation			Power contactor
Product type designation			BF80
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
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		А	115
Operating current			
	Operational current AC1 (≤40°C)	А	115
	Operational current AC3 (≤440V ≤55°C)	А	80
	Operational current AC4 (400V)	А	38
Rated operational power AC1 (T≤40°C)			
	230V	kW	43
	400V	kW	76
	500V	kW	95
	690V	kW	120
Rated operational power AC3 (T≤55°C)			
	230V	kW	22
	400V	kW	45
	415V	kW	45
	440V	kW	45
	500V	kW	55
	690V	kW	55
	1000V	kW	37
Short-time allowable current for 10s (IEC/EN6	60947-1)	А	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	А	80
Making capacity (RMS value)		А	800
Breaking capacity at voltage			
	Breaking capacity 440V	А	640
	Breaking capacity 500V	А	625
	Breaking capacity 690V	А	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	7.9
	ÁC3	W	3.8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5

min

max

lbft

lbft

2.95

3.69



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Tightening torque for c	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires s	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			00
		min	mm²	1.5
		max	mm²	35
Power terminal protect	tion according to IEC/EN 60529	Παλ	111111	IP20 front
Auxiliary contact chara				
Operational current AC			A	115
			А	110
Operating current DC1	13			
		110V	А	Screw / DIN rail
				35mm
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°
Mounting				Screw / DIN rail
Mounting				35mm
Weight			g	1.02
Operations			Ŭ	
Mechanical life			Cycles	15000000
Electrical life			Cycles	1300000
Safety related data			e y el ce	1000000
	0d according to EN/ISO 13489-1			
		rated load	Cicli	1300000
		mechanical load	Cicli	1500000
Mirror contate according			CICII	
	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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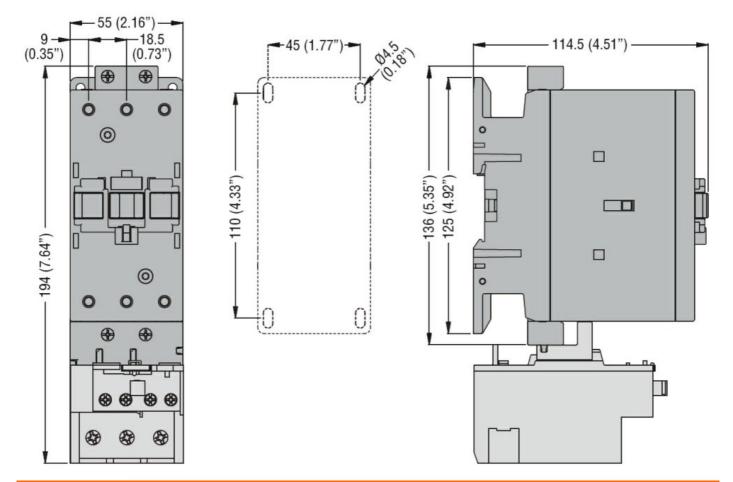
			min	%Us	0.2	
			max	%Us	0.55	
	of 50/60Hz coil power	red at 60Hz				
	0. 00,000. <u>–</u> 00., po 1.0.	pick-up				
		plok up	min	%Us	0.85	
			max	%Us	1.1	
		drop-out				
			min	%Us	0.4	
			max	%Us	0.55	
	of 60Hz coil powered	at 60Hz				
		pick-up				
			min	%Us	0.8	
			max	%Us	1.1	
		drop-out	Пах	/000		
		ulop-out	min	%Us	0.2	
			min			
			max	%Us	0.55	
AC operating voltage						
	of 50/60Hz coil power	ed at 50Hz				
			in-rush	VA	210	
			holding	VA	15	
	of 50/60Hz coil power	red at 60Hz	9			
			in-rush	VA	195	
	( 0011 - 11 - 1	( 00)	holding	VA	13	
	of 60Hz coil powered	at 60Hz				
			in-rush	VA	210	
			holding	VA	15	
Dissipation at holding :	≤20°C 50Hz			W	5.0	
				vv	5.0	
				vv	0.0	
Max cycles frequency						
Max cycles frequency Mechanical operations				Cycles/h		
Max cycles frequency Mechanical operations Operating times	;					
Max cycles frequency Mechanical operations	ontrol					
Max cycles frequency Mechanical operations Operating times	;					
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO		Cycles/ł	n 3600	
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO	min		12	
Max cycles frequency Mechanical operations Operating times	ontrol	-	min max	Cycles/ł	n 3600	
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO Opening NO		Cycles/h ms	12	
Max cycles frequency Mechanical operations Operating times	ontrol	-		Cycles/h ms	12	
Max cycles frequency Mechanical operations Operating times	ontrol	-	max	Cycles/h ms ms	12 28	
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol	-	max	Cycles/h ms ms ms	12 28 8	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC	Opening NO	max	Cycles/h ms ms ms	12 28 8	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data	ontrol	Opening NO	max min max	Cycles/r ms ms ms ms	12 28 8 22	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC	Opening NO	max min max at 480V	Cycles/h ms ms ms ms	12 28 8 22 77	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC ) for three-phase AC mo	Opening NO	max min max	Cycles/r ms ms ms ms	12 28 8 22	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC ) for three-phase AC mo	Opening NO	max min max at 480V	Cycles/h ms ms ms ms	12 28 8 22 77	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC ) for three-phase AC mo	Opening NO	max min max at 480V at 600V	Cycles/r ms ms ms ms A A	12 28 8 22 77 77 77	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC ) for three-phase AC mo	Opening NO	max min max at 480V at 600V at 200/208V	Cycles/h ms ms ms Ms A A A	12 28 8 22 77 77 77 25	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC ) for three-phase AC mo	Opening NO	max min max at 480V at 600V at 200/208V at 220/230V	Cycles/r ms ms ms ms A A	12 28 8 22 77 77 77	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC ) for three-phase AC mo	Opening NO	max min max at 480V at 600V at 200/208V	Cycles/h ms ms ms Ms A A A	12 28 8 22 77 77 77 25	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC ) for three-phase AC mo	Opening NO	max min max at 480V at 600V at 200/208V at 220/230V	Cycles/h ms ms ms ms A A A hp	12 28 8 22 77 77 77 25 30	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC ) for three-phase AC mo	Opening NO	max min max at 480V at 480V at 600V at 220/208V at 220/230V at 460/480V	Cycles/h ms ms ms ms A A A	12 28 8 22 77 77 77 25 30 60	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC ) for three-phase AC mo erformance for three-phase AC m	Opening NO	max min max at 480V at 480V at 600V at 220/208V at 220/230V at 460/480V	Cycles/h ms ms ms ms A A A	12 28 8 22 77 77 77 25 30 60	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC ) for three-phase AC mo	Opening NO	max min max at 480V at 480V at 600V at 600V at 220/230V at 220/230V at 460/480V at 575/600V	Cycles/h ms ms ms Ms A A A hp hp hp hp	12 28 8 22 77 77 77 25 30 60 75	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical per General USE	ontrol in AC ) for three-phase AC mo erformance for three-phase AC m	Opening NO	max min max at 480V at 480V at 600V at 220/208V at 220/230V at 460/480V	Cycles/h ms ms ms ms A A A hp	12 28 8 22 77 77 77 25 30 60	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe General USE Other features	ontrol in AC ) for three-phase AC mo erformance for three-phase AC m	Opening NO	max min max at 480V at 480V at 600V at 600V at 220/230V at 220/230V at 460/480V at 575/600V	Cycles/h ms ms ms Ms A A A hp hp hp hp	12 28 8 22 77 77 77 25 30 60 75 32	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical per General USE Other features Pollution degree	ontrol in AC ) for three-phase AC mo erformance for three-phase AC m	Opening NO	max min max at 480V at 480V at 600V at 600V at 220/230V at 220/230V at 460/480V at 575/600V	Cycles/h ms ms ms Ms A A A hp hp hp hp	12 28 8 22 77 77 77 25 30 60 75	
Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe General USE Other features	ontrol in AC ) for three-phase AC mo erformance for three-phase AC m	Opening NO	max min max at 480V at 480V at 600V at 600V at 220/230V at 220/230V at 460/480V at 575/600V	Cycles/h ms ms ms Ms A A A hp hp hp hp	12 28 8 22 77 77 77 25 30 60 75 32	

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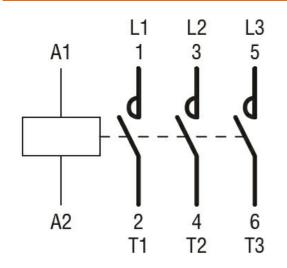
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## Wiring diagrams



## Certifications and compliance

Certifications	
	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
	UL 60947-4-1
Compliance	
	cULus

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ETIM 6 classification

EC000066 - Power contactor, AC switching