BF8000A110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ, 110VAC



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		A	115
Operating current			110
	Operational current AC1 (≤40°C)	А	115
	Operational current AC3 (≤440V ≤55°C)	A	80
	Operational current AC4 (400V)	A	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)	0001		120
	230V	kW	22
	400V	kW	45
	400V 415V	kW	45
	440V	kW	45
	500V	kW	55
	690V	kW	55
	1000V	kW	37
Short-time allowable current for 10s (IEC/EN6		A	640
Protection fuse			040
	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	800
Breaking capacity at voltage		Α	000
breaking capacity at voltage	Breaking capacity 440V	А	640
	Breaking capacity 500V	A	625
	Breaking capacity 500V Breaking capacity 690V	A	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)		11122	0.0
rower ussipation per pole (average value)	Power dissipation pole (average value) Ith	W	7.9
	AC3	W	3.8
Tightening torque for terminals	AC3	٧V	5.0
	min	Nm	Λ
	min	Nm Nm	4 5
	max min	Nm Ibft	
	I I II I		2.95

lbft

max

3.69



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Tightening torque for	coll terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		max		2
	Flowible w/o lug conductor costion	IIIax		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
Auxiliary contact char				
Operational current A			А	115
			Α	115
Operating current DC	13			0
		110V	А	Screw / DIN rail
				35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°Č	70
	Storage temperature	Пах	<u> </u>	10
	Slorage lemperature	min	°C	60
		min		-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Mounting				35mm
Weight			0	1.02
			g	1.02
Operations			<u> </u>	
Mechanical life			Cycles	15000000
Electrical life			Cycles	1300000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
	<u> </u>	rated load	Cicli	1300000
		mechanical load	Cicli	15000000
Mirror contate accord	ing to IEC/EN 609474-4-1	meenamearioau	0.00	
	ing to IEC/EN 009474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8
			%Us	1.1
	1	max	/005	1.1
	drop-out			

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			min	%Us	0.2	
			max	%Us	0.55	
	of 50/60Hz coil powered at					
	pic	sk-up		0/11	o o -	
			min	%Us	0.85	
	dr	an out	max	%Us	1.1	
	dit	op-out	min	%Us	0.4	
			max	%Us	0.4	
	of 60Hz coil powered at 60)Hz	Шах	/000	0.00	
	-	x-up				
	P	··· •F	min	%Us	0.8	
			max	%Us	1.1	
	dro	op-out				
			min	%Us	0.2	
			max	%Us	0.55	
AC operating voltage						
	of 50/60Hz coil powered at	t 50Hz				
			in-rush	VA	210	
			holding	VA	15	
	of 50/60Hz coil powered at	t 60Hz				
			in-rush	VA	195	
	<u> </u>		holding	VA	13	
	of 60Hz coil powered at 60)Hz			0.4.0	
			in-rush	VA	210	
Dissignation of holding.			holding	VA	15	
Dissipation at holding	SZU C 50HZ			W	5.0	
Max avalas fraguanav						
Max cycles frequency				Cycles/	3600	
Mechanical operations				Cycles/ł	n 3600	
Mechanical operations Operating times				Cycles/ł	n 3600	
Mechanical operations	ontrol			Cycles/ł	n 3600	
Mechanical operations Operating times	ontrol in AC	osing NO		Cycles/ł	n 3600	
Mechanical operations Operating times	ontrol in AC	osing NO	min	Cycles/h ms	12	
Mechanical operations Operating times	ontrol in AC	osing NO	min max			
Mechanical operations Operating times	ontrol in AC Clo	osing NO pening NO		ms	12	
Mechanical operations Operating times	ontrol in AC Clo	-		ms	12 28 8	
Mechanical operations Operating times Average time for Us co	ontrol in AC Clo	-	max	ms ms	12 28	
Mechanical operations Operating times Average time for Us of UL technical data	ontrol in AC Clo Op	-	max	ms ms ms	12 28 8	
Mechanical operations Operating times Average time for Us of UL technical data	ontrol in AC Clo	-	max min max	ms ms ms ms	12 28 8 22	
Mechanical operations Operating times Average time for Us of UL technical data	ontrol in AC Clo Op	-	max min max at 480V	ms ms ms ms	12 28 8 22 77	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Clo Op o for three-phase AC motor	-	max min max	ms ms ms ms	12 28 8 22	
Mechanical operations Operating times Average time for Us of UL technical data	ontrol in AC Clo Op o for three-phase AC motor	-	max min max at 480V	ms ms ms ms	12 28 8 22 77	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Clo Op o for three-phase AC motor	-	max min max at 480V at 600V	ms ms ms ms A A	12 28 8 22 77 77	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Clo Op o for three-phase AC motor	-	max min max at 480V at 600V at 200/208V	ms ms ms Ms A A	12 28 8 22 77 77 77 25	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Clo Op o for three-phase AC motor	-	max min max at 480V at 600V at 200/208V at 220/208V at 220/230V	ms ms ms A A hp hp	12 28 8 22 77 77 77 25 30	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Clo Op o for three-phase AC motor	-	max min max at 480V at 480V at 600V at 220/208V at 220/230V at 460/480V	ms ms ms A A A	12 28 8 22 77 77 77 25 30 60	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC Clo Op o for three-phase AC motor	-	max min max at 480V at 600V at 200/208V at 220/208V at 220/230V	ms ms ms A A hp hp	12 28 8 22 77 77 77 25 30	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC Clo Op o for three-phase AC motor erformance for three-phase AC motor	-	max min max at 480V at 480V at 600V at 220/208V at 220/230V at 460/480V	ms ms ms A A A	12 28 8 22 77 77 77 25 30 60	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC Clo Op o for three-phase AC motor	-	max min max at 480V at 480V at 600V at 220/208V at 220/230V at 460/480V	ms ms ms A A A	12 28 8 22 77 77 77 25 30 60	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC Clo Op o for three-phase AC motor erformance for three-phase AC motor	-	max min max at 480V at 480V at 600V at 200/208V at 220/230V at 220/230V at 460/480V at 575/600V	ms ms ms A A hp hp hp hp	12 28 8 22 77 77 77 25 30 60 75	
Mechanical operations Operating times Average time for Us ca UL technical data Full-load current (FLA) Yielded mechanical per General USE	ontrol in AC Clo Op o for three-phase AC motor erformance for three-phase AC motor	-	max min max at 480V at 480V at 600V at 200/208V at 220/230V at 220/230V at 460/480V at 575/600V	ms ms ms A A hp hp hp hp	12 28 8 22 77 77 77 25 30 60 75	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical per General USE Other features	ontrol in AC Clo Op o for three-phase AC motor erformance for three-phase AC motor	-	max min max at 480V at 480V at 600V at 200/208V at 220/230V at 220/230V at 460/480V at 575/600V	ms ms ms A A hp hp hp hp	12 28 8 22 77 77 77 25 30 60 75 32	

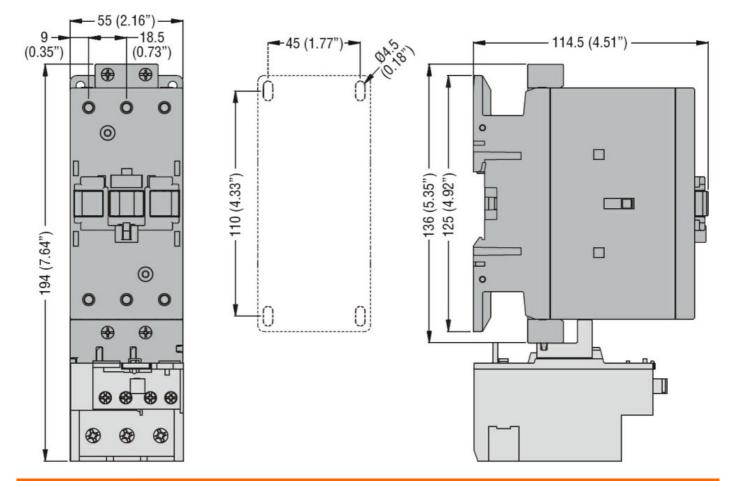
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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

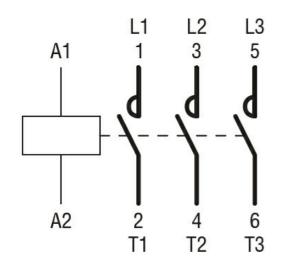
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Wiring diagrams



Certifications and compliance

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