



Product designation			Power contactor
Product type designation			BF80
Contact characteristics			
Number of poles		Nr.	4
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	115
Operational current le			
	AC-1 (≤40°C)	А	115
	AC-1 (≤55°C)	A	95
	AC-1 (≤70°C)	A	80
	AC-3 (≤440V ≤55°C)	A	80
	AC-4 (400V)	A	38
Rated operational current AC-3 (T≤55°C)		~	30
	230V	А	80
	400V	A	80
	400V 415V	A	80
	413V 440V	A	80
	440V 500V		
	690V	A	78 57
	1000V	A A	28
Rated operational power AC-1 (T≤40°C)	1000 V	A	20
	230V	kW	43
	230V 400V		
		kW	76 05
	500V	kW	95
Chart time allowable current for 400 (IEC/ENCO047.4)	690V	kW	120
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse		•	405
	gG (IEC)	A	125
	aM (IEC)	<u>A</u>	80
Making capacity (RMS value)		A	800
Breaking capacity at voltage			
	440V	A	640
	500V	A	625
	690V	A	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5



BF80T2A400 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 50/60HZ,

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		min	lbin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
Power terminal prote	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	1360
Conductor section			5	
	AWG/kcmil conductor section			
		max		2
Operations		Пах		-
Mechanical life			cycles	15000000
			cycles	15000000
Electrical life			cycles cycles	15000000 1300000
Electrical life Safety related data	10d according to EN/ISO 13/89-1		-	
Electrical life Safety related data	10d according to EN/ISO 13489-1	rated load	cycles	1300000
Electrical life Safety related data	10d according to EN/ISO 13489-1	rated load	cycles cycles	1300000 1300000
Electrical life Safety related data Performance level B [*]		rated load mechanical load	cycles	1300000 1300000 15000000
Electrical life Safety related data Performance level B Mirror contats accord	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1		cycles cycles	1300000 1300000 15000000 YES
Electrical life Safety related data Performance level B ² Mirror contats accord EMC compatibility			cycles cycles	1300000 1300000 15000000
Electrical life Safety related data Performance level B ² Mirror contats accord EMC compatibility AC coil operating	ling to IEC/EN 609474-4-1		cycles cycles cycles	1300000 1300000 15000000 YES yes
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz		cycles cycles	1300000 1300000 15000000 YES
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz		cycles cycles cycles	1300000 1300000 15000000 YES yes
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz		cycles cycles cycles	1300000 1300000 15000000 YES yes
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz	mechanical load	cycles cycles cycles	1300000 1300000 15000000 YES yes 400
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz		cycles cycles cycles V	1300000 1300000 15000000 YES yes 400
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	cycles cycles cycles	1300000 1300000 15000000 YES yes 400
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	mechanical load	cycles cycles cycles V V %Us %Us	1300000 1300000 15000000 YES yes 400 80 110
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us	1300000 1300000 15000000 YES yes 400 80 110 20
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us	1300000 1300000 15000000 YES yes 400 80 110
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us	1300000 1300000 15000000 YES yes 400 80 110 20
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ling to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us	1300000 1300000 15000000 YES yes 400 80 110 20
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ting to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load	cycles cycles cycles V V %Us %Us %Us	1300000 1300000 15000000 YES yes 400 80 110 20
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ting to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max	cycles cycles cycles V V %Us %Us %Us %Us	1300000 1300000 15000000 YES yes 400 80 110 20 55
Electrical life Safety related data Performance level B Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 5	ting to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us	1300000 1300000 15000000 YES yes 400 80 110 20 55 85
	ding to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us	1300000 1300000 15000000 YES yes 400 80 110 20 55 85

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AC average coil consu					
	of 50/60Hz coil power	red at 50Hz			
			in-rush	VA	210
			holding	VA	15
	of 50/60Hz coil power	red at 60Hz			
			in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding	≤20°C 50Hz			W	5
Max cycles frequency					-
Mechanical operation				cycles/h	2600
				cycles/fi	3000
Operating times	· · ·				
Average time for Us c					
	in AC				
		Closing NO			
		-	min	ms	12
			max	ms	28
		Opening NO	max		_•
			min	me	8
				ms	
		<u>.</u>	max	ms	22
		Closing NC			
			min	ms	11
			max	ms	29
		Opening NC			
			min	ms	6
			max	ms	14
	in DC		max		
		Closing NO			4.0
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
) for three-phase AC mo	otor			
				٨	77
			at 480V	A	77
			at 600V	A	77
Yielded mechanical pe					
	for three-phase AC m	otor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
			J7 J/000 V	I IF	10
General USE					
	Contactor				
			AC current	А	115
Ambient conditions					
Temperature					
	Operating temperatur	e			
	Sportaning tomperatur	~	min	°C	-50
			min		
	<u></u>		max	°C	70
	Storage temperature				

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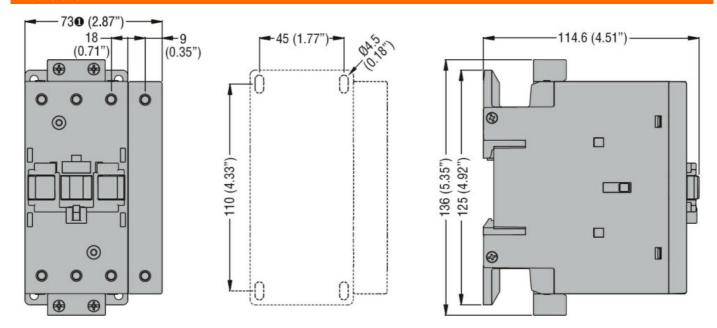


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 50/60HZ,

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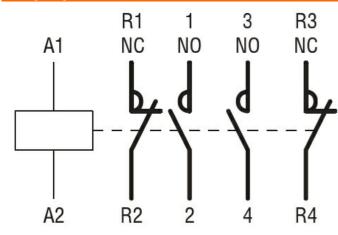
BF80T2A400





BF80T2 82mm/3.23"





Certifications and compliance Compliance

BF80T2A400

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
	cULus
ETIM classification	n

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





FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 50/60HZ, 400VAC, 2NO AND 2NC

ETIM 8.0

EC000066 -Power contactor, AC switching