BF40T4A048



Product designation

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 48VAC



Power contactor

Product type designation			BF40
Contact characteristics			
Number of poles		nr.	4
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	70
Operating current			
	Operational current AC1 (≤40°C)	А	70
	Operational current AC3 (≤440V ≤55°C)	А	40
	Operational current AC4 (400V)	А	24
Rated operational power AC1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
Rated operational power AC3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	18.5
Short-time allowable current for 10s (IEC/EN6	0947-1)	A	400
Protection fuse			
	gG (IEC)	A	100
	aM (IEC)	A	50
Making capacity (RMS value)		А	400
Breaking capacity at voltage	_	-	
	Breaking capacity 440V	A	320
	Breaking capacity 500V	A	265
	Breaking capacity 690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	3.9
The foreign for the second second	AC3	W	1.3
Tightening torque for terminals		NU	4
	min	Nm	4
	max	Nm	5
	min	lbft	2.95
	max	lbft	3.69



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Tightening torque for	coil 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
	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 protect	ction according to IEC/EN 60529	Παλ		IP20 front
Auxiliary contact chara	-			
Operational current A			A	70
-			А	10
Operating current DC	15			Sorow / DIN
		110V	А	Screw / DIN rail 35mm
Ambient conditions				5511111
Temperature				
	Operating temperature		° 0	
		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
				35mm
Weight			g	1.24
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	1500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
	-	rated load	Cicli	1500000
		mechanical load	Cicli	15000000
Mirror contats accordi	ing to IEC/EN 609474-4-1		-	yes
EMC compatibility	<u> </u>			yes
AC coil operating				,
AC operating voltage				
	of EQ/EQUIT coil powered at EQUIT			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	0.0
		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 powere					
		pick-up				
			min	%Us	0.85	
			max	%Us	1.1	
		drop-out				
			min	%Us	0.4	
			max	%Us	0.55	
	of 60Hz coil powered a					
		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 powere	ed at 50Hz				
	-		in-rush	VA	210	
			holding	VA	15	
	of 50/60Hz coil powere	ed at 60Hz				
			in-rush	VA	195	
			holding	VA	13	
	of 60Hz coil powered a	at 60Hz				
			in-rush	VA	210	
			holding	VA	15	
Dissipation at holding :	<20°C 50H7		¥	147	F 0	
				W	5.0	
Max cycles frequency				VV	5.0	
				vv Cycles/ł		
Max cycles frequency						
Max cycles frequency Mechanical operations						
Max cycles frequency Mechanical operations Operating times						
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO				
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO	min			
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO	min max	Cycles/ł	n 3600	
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO Opening NO		Cycles/h ms	1 3600 12	
Max cycles frequency Mechanical operations Operating times	ontrol	-		Cycles/h ms	1 3600 12	
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol	-	max	Cycles/h ms ms	12 28	
Max cycles frequency Mechanical operations Operating times	ontrol	-	max	Cycles/f ms ms ms	12 28 8	
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol	Opening NO	max	Cycles/f ms ms ms	12 28 8	
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO	max	Cycles/f ms ms ms	12 28 8	
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO	max min max	Cycles/h ms ms ms ms	12 28 8 22	
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC for three-phase AC mot	Opening NO	max min max at 480V	Cycles/f ms ms ms ms	12 28 8 22 40	
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 mot	Opening NO or	max min max at 480V	Cycles/f ms ms ms ms	12 28 8 22 40	
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 mot	Opening NO or	max min max at 480V	Cycles/f ms ms ms ms	12 28 8 22 40	
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 mot	Opening NO or	max min max at 480V at 600V	Cycles/f ms ms ms s	12 28 8 22 40 32	
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 mot	Opening NO or otor	max min max at 480V at 600V at 110/120V	Cycles/f ms ms ms ms A A A	12 28 8 22 40 32	
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 mot erformance for single-phase AC m	Opening NO or otor	max min max at 480V at 600V at 110/120V	Cycles/f ms ms ms ms A A A	12 28 8 22 40 32	
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 mot erformance for single-phase AC m	Opening NO or otor	max min max at 480V at 600V at 110/120V at 230V at 220/208V at 220/208V at 220/230V	Cycles/h ms ms ms ms A A A hp	12 28 8 22 40 32 3 7.5	
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 mot erformance for single-phase AC m	Opening NO or otor	max min max at 480V at 480V at 600V at 600V at 230V at 230V	Cycles/f ms ms ms ms A A A hp hp	12 28 8 22 40 32 3 7.5 10	
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 mot erformance for single-phase AC m	Opening NO or otor	max min max at 480V at 600V at 110/120V at 230V at 220/208V at 220/208V at 220/230V	Cycles/h ms ms ms ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15	
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 mot erformance for single-phase AC m	Opening NO or otor	max min max at 480V at 480V at 600V at 600V at 230V at 220/230V at 220/230V at 460/480V	Cycles/h ms ms ms ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15 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 mot erformance for single-phase AC m	Opening NO or otor	max min max at 480V at 480V at 600V at 600V at 230V at 220/230V at 220/230V at 460/480V	Cycles/h ms ms ms ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15 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 mot erformance for single-phase AC mo for three-phase AC mo	Opening NO or otor	max min max at 480V at 480V at 600V at 600V at 230V at 220/230V at 220/230V at 460/480V	Cycles/h ms ms ms ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15 30	

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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

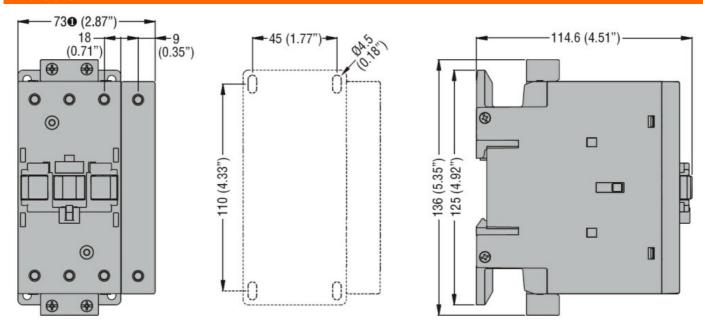


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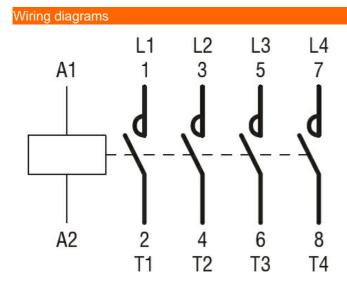
ENERGY AND AUTOMATION

Other features

Pollution degree Dimensions



BF80T2 82mm/3.23"



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
ETIM 6 classification	

EC000066 - Power contactor, AC switching

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