

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 110VAC



Product designation Product type designation			Power contactor BF18
Contact characteristics			
Number of poles		nr.	4
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	32
Operating current			
•	Operational current AC1 (≤40°C)	Α	32
0	perational current AC3 (≤440V ≤55°C)	Α	18
	Operational current AC4 (400V)	Α	8.5
Rated operational power AC1 (T≤40°C)	·		
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Rated operational power AC3 (T≤55°C)			
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
Short-time allowable current for 10s (IEC/EN60947-	1)	Α	200
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			
	Breaking capacity 440V	Α	144
	Breaking capacity 500V	Α	120
	Breaking capacity 690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
Pov	ver dissipation pole (average value) Ith	W	2.6
	AC3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5



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	mir		0.8
	max		1
	mir		0.8
	max		0.74
	simultaneously connectable	nr.	2
Conductor section			
	AWG		40
	mir		16
	Flovible w/e lug conductor costion	•	10
	Flexible w/o lug conductor section	mm²	1
	mir max		1 6
	Flexible c/w lug conductor section	. 111111	0
	mir	mm²	1
	max	_	4
	Flexible with insulated spade lug conductor section		
	mir	mm²	1
	ma)	•	4
Power terminal protect	tion according to IEC/EN 60529		IP20 when wired
Auxiliary contact chara			II 20 WHOII WHOO
Operational current AC		Α	32
Operating current DC1	·		
	110\	Α	Screw / DIN rail 35mm
Ambient conditions			
Temperature			
	Operating temperature		
	mir		-50
	max	°C	70
	Storage temperature		
	mir	_	-60
B.A. Idea I	max		80
Max altitude		m	3000
Operating position			M. Calaba
	norma		Vertical plan
	allowable		±30°
Mounting			Screw / DIN rail 35mm
Weight		g	0.358
Operations		<u> </u>	00000000
Mechanical life		Cycles	20000000
Electrical life		Cycles	1600000
Safety related data	Od according to FN/ISO 40400 4		
renormance level B1	0d according to EN/ISO 13489-1	O: -II	4000000
	rated load		1600000
Mirror contate accession	mechanical load	Cicli	20000000
-	ng to IEC/EN 609474-4-1		yes
EMC compatibility AC coil operating			yes
AC coll operating AC operating voltage			
AC operating voltage	of 50/60Hz coil powered at 50Hz		
	of 50/60Hz coil powered at 50Hz		
	pick-up mir	%Us	0.8
	mir	70US	0.0





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		max	%Us	1.1
	drop-out			
	·	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	0.2
	(001)	max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	0.0
		min	%Us	0.8
	drap out	max	%Us	1.1
	drop-out	min	%Us	0.2
		max	%Us	0.55
AC operating voltage		IIIdx	7003	0.55
Ac operating voltage	of 50/60Hz coil powered at 50Hz			
	of 30/00112 con powered at 30112	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	noising .	• • • • • • • • • • • • • • • • • • • •	
	01 00/001 12 0011 poworod at 001 12	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	<u></u>		
		in ruch	VA	75
		111-110511	٧A	10
		in-rush holding	VA	9
Dissipation at holding	≤20°C 50Hz	holding		
Dissipation at holding Max cycles frequency	≤20°C 50Hz		VA	9
Max cycles frequency Mechanical operations		holding	VA	9 2.5
Max cycles frequency Mechanical operations Operating times	3	holding	VA W	9 2.5
Max cycles frequency Mechanical operations	ontrol	holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times	ontrol	holding	VA W Cycles/h	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding	VA W Cycles/h	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	holding	VA W Cycles/h	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding min max	VA W Cycles/r ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	min max	VA W Cycles/r ms ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	holding min max	VA W Cycles/r ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	min max min max	VA W Cycles/r ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	min max min max	VA W Cycles/r ms ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	min max min max	VA W Cycles/r ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	min max min max min max	VA W Cycles/h ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	min max min max min max min max	W Cycles/h ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	min max min max min max	VA W Cycles/h ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC	min max min max min max min max	W Cycles/h ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	W Cycles/h ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	W Cycles/h ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max at 480V	VA W Cycles/r ms ms ms ms ms ms A	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us or UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max at 480V	VA W Cycles/r ms ms ms ms ms ms A	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us or UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max at 480V at 600V	VA W Cycles/r ms ms ms ms ms ms A	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us or UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max at 480V at 600V	W Cycles/h ms ms ms ms ms ms A A	9 2.5 3600 8 24 10 20 14 28 7 18



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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 110VAC

for three-phase AC motor			
·	at 200/208V	hp	5
	at 220/230V	hp	5
	at 460/480V	hp	10
	at 575/600V	qd	15

General USE

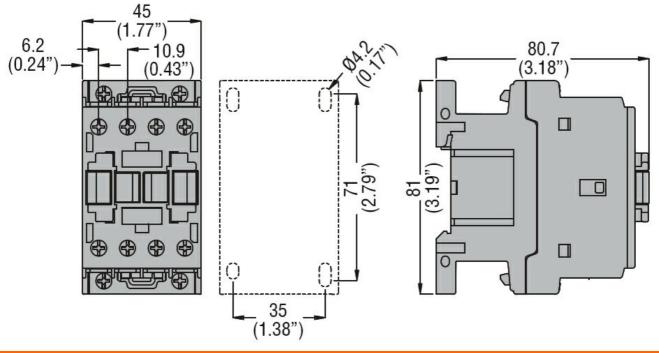
Contactor

AC current A 32

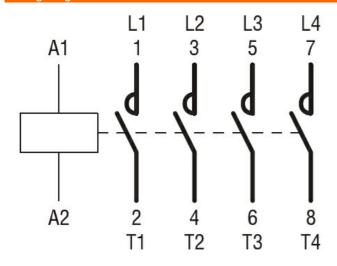
Other features

Pollution degree

Dimensions



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



ENERGY AND AUTOMATION

BF18T4A110

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ,

	UL 60947-1	
	UL 60947-4-1	
Compliance		
	CCC	
	cULus	
	FΔC	

ETIM 6 classification

EC000066 - Power contactor, AC switching

BF18T4A110