## BF12T4A400



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 28A, AC COIL 50/60HZ, 400VAC



Product designation			Power contactor
Product type designation	n		BF12
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage	Ui	V	690
Rated impulse withstand		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air the	ermal current Ith	А	28
Operating current			
	Operational current AC3 (≤440V ≤55°C)	А	12
	Operational current AC4 (400V)	А	7.9
Short-time allowable cur	rrent for 10s (IEC/EN60947-1)	А	150
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	12
Making capacity (RMS v		А	120
Breaking capacity at volt	,		
0 1 2	Breaking capacity 440V	А	96
	Breaking capacity 500V	А	96
	Breaking capacity 690V	А	94
Resistance per pole (av	erage value)	mΩ	2.5
Power dissipation per po			
	Power dissipation pole (average value) Ith	W	2
	AC3	W	0.4
Tightening torque for ter	minals		
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5
Tightening torque for co	il terminal		
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
max number of wires sir	nultaneously connectable	nr.	2
Conductor section			
	AWG		
	min		16
	max		10
	Flexible w/o lug conductor section		
	min	mm²	1
	max	mm²	6

Flexible c/w lug conductor section

ENERGY AND AUTOMATION

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			2	
		min	mm²	1
	Elevitele with included an edge bar and deater a sting	max	mm²	4
	Flexible with insulated spade lug conductor section			4
		min	mm² mm²	1
Power terminal protect	ion according to IEC/EN 60529	max	11111-	4 IP20
Auxiliary contact chara				IF20
Type of contact				1 NA
Thermal current Ith			А	28
IEC/EN 60947-5-1 des	ignation		Λ	A600
Ambient conditions				A000
Temperature				
remperature	Operating temperature			
	operating temperature	min	°C	-50
		max	°Č	70
	Storage temperature	max		
		min	°C	-60
		max	°Č	80
Max altitude			m	3,000
Operating position				-,
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.367
Operations			g	0.307
Mechanical life			Cycles	20,000,000
Electrical life			Cycles	2000000
Safety related data			0,0100	2000000
	Dd according to EN/ISO 13489-1 -			
	d according to EN/ISO 13489-1 - Performance level B10d accordi	ing to EN/IS	50 <b>0</b> 18489	-11 000000ad
	d according to EN/ISO 13489-1 - Performance level B10d accordi Performance level B10d accordi	-		
Performance level B10	Performance level B10d accordi	-		
Performance level B10 Mirror contats accordin	Performance level B10d accordi Performance level B10d accordi	-		-12000000000000000000000000000000000000
Performance level B10	Performance level B10d accordi Performance level B10d accordi	-		-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility	Performance level B10d accordi Performance level B10d accordi ng to IEC/EN 609474-4-1	-		-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	Performance level B10d accordi Performance level B10d accordi ng to IEC/EN 609474-4-1	-		-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	Performance level B10d accordi Performance level B10d accordi ng to IEC/EN 609474-4-1	ng to EN/IS	600@#89	-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	Performance level B10d accordi Performance level B10d accordi ng to IEC/EN 609474-4-1	ng to EN/IS min	SOCIE489	12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ng to IEC/EN 609474-4-1	ng to EN/IS min	SOCIE489	12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ng to IEC/EN 609474-4-1 D/60Hz, 60Hz	ng to EN/IS min	0038489 V V	12 12 12 12 600
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz	ng to EN/IS min	SOCI264489 V V V V	- 12 00 00 00 00 00 00 00 00 00 00 00 00 00
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	mg to EN/IS	0038489 V V	12 12 12 12 600
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz	min min max min max	SOCI 264489 V V V %Us %Us	-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	min min max min	SOCI 124489 V V V %Us %Us %Us	-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min min max min max	SOCI 264489 V V V %Us %Us	-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min min max min max min	SOCI 124489 V V V %Us %Us %Us	-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min min max min max	SOCI 264489 V V %Us %Us %Us %Us	-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min min max min max min max min max	SOCI 264489 V V V %Us %Us %Us %Us	-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ag to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min min max min max	SOCI 264489 V V %Us %Us %Us %Us	-12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ing to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min min max min max min max	SOCI 264489 V V V %Us %Us %Us %Us %Us	12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ag to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max min max min max	SOCI 264489 V V V %Us %Us %Us %Us %Us %Us	- 12000000000000000000000000000000000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 50	Performance level B10d accordi Performance level B10d accordi ag to IEC/EN 609474-4-1 D/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min min max min max min max	SOCI 264489 V V V %Us %Us %Us %Us %Us	12000000000000000000000000000000000000

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	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	тал	/000	110
	diop-out		0/11-	00
		min	%Us	20
		max	%Us	55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	·	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	noiding		•
		in much	١/٨	70
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
			Overlag /h	2 000
Mechanical operations	5 		Cycles/h	3,600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
	0.00	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
	-	min	ms	14
		max	ms	28
	Opening NC	тах	1110	20
				7
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA)	) for three-phase AC motor			
		at 480V	А	11
		at 600V	А	11
Yielded mechanical pe	rformanco	41.0001		
neided mechanical pe				
	for single-phase AC motor			
		at 110/120V	hp	1
		at 230V	hp	2
	for three-phase AC motor			
		at 200/208V	hp	5
		at 220/230V	hp	5
		at 460/480V	hp	7.5
		at 575/600V	-	10
Original and the state of the state	en enterte errendien († 19	at 373/000V	hp	
	ary contacts according to UL			SI - A600
General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			-
		AC voltors	V	600
		AC voltage	V	600

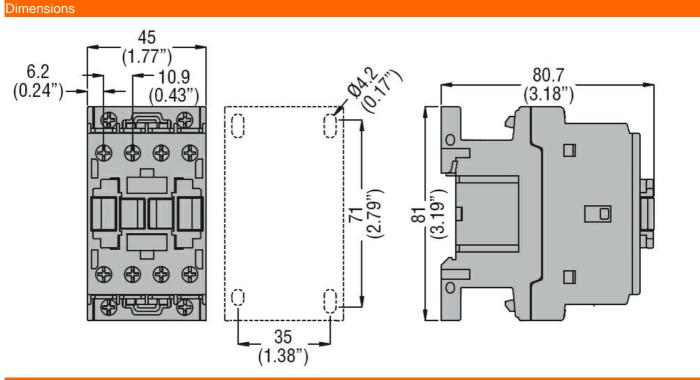
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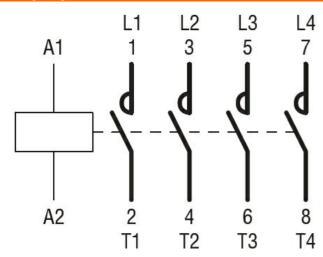
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AC current	Α	10
DC voltage	V	250
DC current	А	1

**BF12T4A400** 



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	
	CCC
	cULus
	EAC
ETIM 6 classificat	ion

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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EC000066 - Power contactor, AC switching