

Product designation

Number of poles

Product type designation

Rated insulation voltage Ui IEC/EN

Rated impulse withstand voltage Uimp

Contact characteristics



Power contactor **BF12** 3 nr. V 690 kV 6

Rated impulse withstand voltage oimp		IN V	0
Operational frequency			
	min	Hz	25
	max	Hz	400
Conventional free air thermal current Ith IEC/E	N	А	28
Operational current le			
	AC-1 (≤40°C)	А	28
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	А	7.9
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
Rated operational power AC-3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	6.2
	500V	kW	7.5
	690V	kW	10
Short-time allowable current for 10s (IEC/EN6	60947-1)	А	150
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	12
Making capacity (RMS value)		А	120
Breaking capacity at voltage			
	440V	А	96
	500V	А	96
	690V	А	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Power dissipation pole (average value) Ith	W	2
	ÁC3	W	0.4
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5

Tightening torque for coil terminal



BF1210A400 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT

Mounting Weight			35mm 0.365
			Screw / DIN rail
Operating position Operating position all			Vertical plan ±30°
Operational position			
Max altitude	-	m	3000
	min max	℃ ℃	-60 80
Storage temperature	-	°C	60
	max	°C	70
	min	°C	-50
Operating temperature			
Temperature			
Ambient conditions	600V	A	1.2
	220V	A	0.2
	125V	A	0.6
	110V	А	Screw / DIN rai 35mm
	60V	А	2.3
	48V	А	2.9
	24V	А	5.7
Operating current DC13	1100	~	0.1
Operating current DC12	110V	A	5.7
	500V	А	1.4
	400V	А	1.9
	230V	А	3
Operating current AC15			
Operational current le AC-1 (≤40°C)		Α	28
EC/EN 60947-5-1 designation			A600 - P600
Thermal current Ith		Α	10
Type of contact			1 NO
Power terminal protection according to IEC/EN 60529 Auxiliary contact characteristics			IP20 when wire
	max	mm²	4
	min	mm²	1
Flexible with insulated spade lug conductor section	_	_	
	max	mm²	4
	min	mm²	1
Flexible c/w lug conductor section			
	max	mm²	6
Flexible w/o lug conductor section	min	mm²	1
Flowible w/o lug conductor contian	max		10
	min		16
AWG			
Conductor section			
Max number of wires simultaneously connectable		nr.	2
	max	lbft	0.74
	min	lbft	0.8
	IIIaA		
	max	Nm	1

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400VAC, INO AUXILIARY CONTACT

Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	Cicli	2000000
		mechanical load	Cicli	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	0.8
		max	%Us %Us	0.o 1.1
	drop-out	Παλ	/005	1.1
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz	max	,	2.00
	pick-up			
	rr	min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	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 powered at 50Hz	in ruch	\/A	75
		in-rush	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	holding	٧٨	3
		in-rush	VA	70
		holding	VA VA	6.5
	of 60Hz coil powered at 60Hz	lioiding		5.0
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			Cycles/h	3600
Operating times			-	
Average time for Us o	control			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20

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Closing NC



min m max m Opening NC min m max m	us 28 us 7
Opening NC min m max m	is 7
Opening NC min m max m	is 7
min m max m	
max m	
	is 18
or	
at 480V A	A 11
at 600V F	A 11
otor	
Yielded mechanical performance at 110/120V h	p 1
	ρ 2
	_
•	
Yielded mechanical performance at 220/230V h	p 5
•	
-	A600 - P600
UL	A000 - P000
AC current	A 28
	0
	3
80.7 (3.18" (3.18" (3.18")	
1	at 600V A ptor Yielded mechanical performance at 110/120V h Yielded mechanical performance at 220/208V h Yielded mechanical performance at 220/230V h Yielded mechanical performance at 460/480V h Yielded mechanical performance at 575/600V h UL AC current A \$80.7 (3.18" (3.18")

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7.9-

(0.31")

14.6

(0.57")

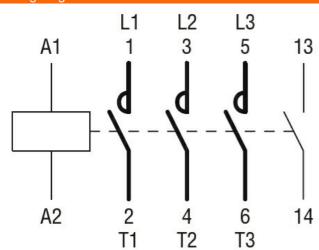
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

81.2 (3.20")



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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	
	CCC
	cULus
	EAC
ETIM 6 classification	

ETIM 6 classification

EC000066 - Power contactor, AC switching