

## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL LOW CONSUMPTION, 24VDC, 1NC AUXILIARY CONTACT



Product designation		Power contactor
Product type designation		BF12
Contact characteristics		
Number of poles	nr.	3
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	28
Operating current		
Operational current AC1 (≤40°C)	Α	28
Operational current AC3 (≤440V ≤55°C)	Α	12
Operational current AC4 (400V)	Α	7.9
Rated operational power AC1 (T≤40°C)		
230V	kW	10
400V	kW	18
500V	kW	23
690V	kW	32
Rated operational power AC3 (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/EN60947-1)	Α	150
Protection fuse		
gG (IEC)	Α	32
aM (IEC)	Α	12
Making capacity (RMS value)	Α	120
Breaking capacity at voltage		
Breaking capacity 440V	Α	96
Breaking capacity 500V	Α	96
Breaking capacity 690V	Α	94
Resistance per pole (average value)	mΩ	2.5
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	2
AC3	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		





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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
may number of wires	simultanequaly connectable	max	Ibft	0.74
Conductor section	simultaneously connectable		nr.	
Conductor Section	AWG			
	AVVG	min		16
		max		10
	Flexible w/o lug conductor section	max		
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	•	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			_
		min	mm²	1
		max	mm²	4
-	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact char	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - P600
Operational current A			Α	28
Operating current AC	15		_	_
		230V	A	3
		400V	A	1.9
Operation augreent DC	40	500V	A	1.4
Operating current DC	012	110V	۸	5.7
Operating current DC	213	1100	A	5.7
Operating current DC	,13	24V	Α	5.7
		48V	A	2.9
		60V	A	2.3
				Screw / DIN rail
		110V	Α	35mm
		125V	Α	0.6
		220V	Α	0.2
		600V	Α	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
	-	max	°C	70
	Storage temperature		0.0	00
		min	°C	-60
Max altitude		max	°C	80
Max altitude			m	3000
Operating position		normal		Vertical plan
		allowable		±30°
		นแบพสมเธ		Screw / DIN rail
Mounting				35mm
Weight			g	0.5
			<u> </u>	-



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Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
-	Od according to EN/ISO 13489-1			
	-	rated load	Cicli	2000000
		mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				
DC rated control voltage	je			
		min	V	6
		max	V	250
DC operating voltage				
	pick-up			
		min	%Us	0.8
		max	%Us	1.10
	drop-out			
		min	%Us	0.1
		max	%Us	0.40
Average coil consuption	on ≤20°C			
		in-rush	W	2.4
		holding	W	2.4
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co				
	in DC			
	Closing NO			
		min	ms	75
		max	ms	91
	Opening NO			
		min	ms	15
	0	max	ms	19
	Closing NC			
		min	ms	24
	0 : 110	max	ms	30
	Opening NC	•	,	67
		min	ms	67
III taabulaalalata		max	ms	81
UL technical data	for three phase AC mater			
ruii-ioad current (FLA)	for three-phase AC motor	-1.40014	۸	44
		at 480V	A	11
Vialdad os sale o divid		at 600V	A	11
Yielded mechanical pe				
	for single-phase AC motor	-1.440/4001/	L.	4
		at 110/120V	hp	1
	fanthura mhara AO sastas	at 230V	hp	2
	for three-phase AC motor	-1.000/0001	1 .	_
		at 200/208V	hp	5
		at 220/230V	hp	5
			L ·	7 -
		at 460/480V	hp	7.5
Contest actions of a ""	ary contacts according to UL		hp hp	7.5 10 A600 - P600

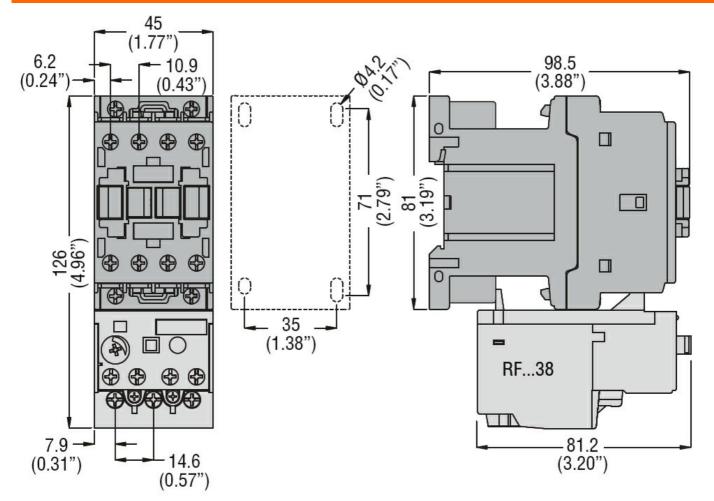
**ENERGY AND AUTOMATION** 

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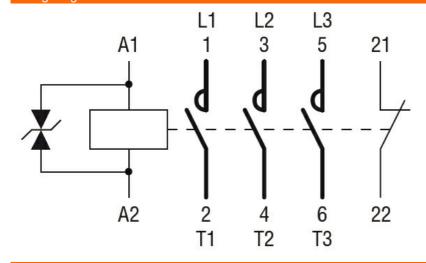
#### General USE

Contactor

	AC current	Α	28
Other features			
Pollution degree			3
Dimensions			



# Wiring diagrams



### Certifications and compliance

Certifications

CSA C22.2 n° 60947-1



#### BF1201L024

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	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
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	UL 60947-1
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching