

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, 1NO AUXILIARY CONTACT



Product designation Product type designation			Power contactor 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
O	perational 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)	<u> </u>	mΩ	2.5
Power dissipation per pole (average value)			
	ver 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



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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	Пах		
		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 NO
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	Α	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	0.487

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Operations					
Mechanical life				Cycles	20000000
Electrical life				Cycles	2000000
Safety related data					
Performance level B10	od according to EN	I/ISO 13489-1			
			rated load	Cicli	2000000
			mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 6094	74-4-1			yes
EMC compatibility					yes
DC coil operating					
DC rated control voltage	je				
DO			min	V	6
DC operating voltage	miale				
	pick-up		min	%Us	0.7
			max	%Us	1.25
	drop-out		IIIdX	/005	1.20
	arop out		min	%Us	0.1
			max	%Us	0.40
Average coil consuption	on ≤20°C				
<u> </u>	-		in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operations				Cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NC			
			min	ms	14
		0 ' 10	max	ms	28
		Opening NC			7
			min	ms	7 18
	in DC		max	ms	10
	III DC	Closing NO			
		Cidality NO	min	ms	54
			max	ms	66
		Opening NO	man	3	
		1 - 3	min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase A	C motor			
			at 480V	Α	11
			at 600V	Α	11
Yielded mechanical pe					
	for single-phase	AC motor		_	
			at 110/120V	hp	1
	<u> </u>	10	at 230V	hp	2
	for three-phase A	AC motor	-1.000/0001	L	_
			at 200/208V	hp	5 5
				nn	_
			at 220/230V	hp	
			at 220/230V at 460/480V at 575/600V	hp hp	7.5 10

ENERGY AND AUTOMATION

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Contact rating of auxiliary contacts according to UL

A600 - P600

General USE

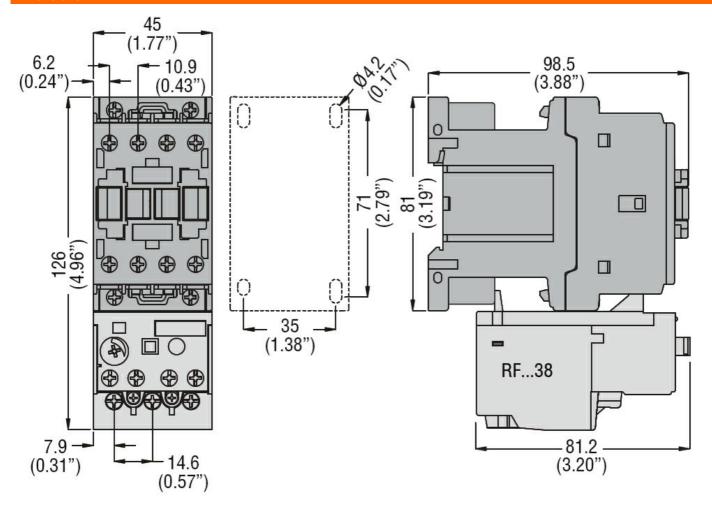
Contactor

AC current A 28

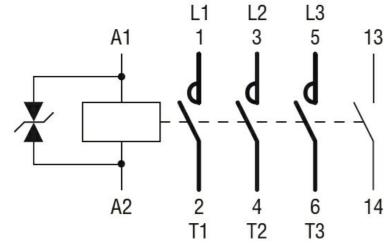
Other features
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Certifications



BF1210D024

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	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

EC000066 - Power contactor, AC switching