



Product designation			Power contactor
Product type designation			BF12
Contact characteristics			D1 12
			3
Number of poles		nr.	
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	28
Operational current le			
•	AC-1 (≤40°C)	Α	28
	AC-1 (≤55°C)	Α	23
	AC-1 (≤70°C)	Α	20
	AC-3 (≤440V ≤55°C)	A	12
	AC-4 (400V)	Α	7.9
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)		1.5
Rated operational power AC-3 (1200 C)	0001/	1-147	0.0
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	17
	48V	A	15
	75V	A	13
	110V	A	6
	220V		
IFC may assument to in DC4 with L/D < 4 may with 2 males in agrica	220 V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	10.41.4		22
	≤24V	A	20
	48V	Α	20
	75V	Α	18
	110V	Α	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	16
	-		





	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	Α	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	12
	48V	Α	11
	75V	Α	10
	110V	Α	2
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max current le in boo-boo with bit 2 10ms with 2 poles in series	≤24V	Α	15
	48V	A	
	48 V 75 V		13 12
		A	
	110V	A	8
150	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	.= :		4.0
	≤24V	Α	18
	48V	Α	18
	75V	Α	15
	110V	Α	12
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	15
	48V	Α	15
	75V	Α	15
	110V	Α	16
	220V	Α	7
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			
	440V	Α	96
	500V	A	96
	690V	A	94
Resistance per note (average value)	090 v	mΩ	2.5
Resistance per pole (average value)		11177	۷.ن
Power dissipation per pole (average value)	I±L	147	2
	Ith	W	2
<del></del>	AC3	W	0.4
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8



BF1210A024

		max	lbft	0.74
Max number of wires	simultaneously connectable		nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section		2	
		min	mm²	1
	Florible with insulated anode lug conductor costion	max	mm²	4
	Flexible with insulated spade lug conductor section	min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529	IIIdx	111111	IP20 when wired
Mechanical features	ction according to 120/214 00029			ii 20 when whea
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
Filtra		3		Screw / DIN rail
Fixing				35mm
Weight			g	360
Auxiliary contact char	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	15			_
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	A	1.25
		125V	A	1.1
		220V 600V	A	0.55
Operations		0007	Α	0.2
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data			0,0100	
	10d according to EN/ISO 13489-1			
		rated load	cycles	2000000
	m	nechanical load	cycles	2000000
Mirror contats accord	ling to IEC/EN 609474-4-1		- , 5.55	yes
EMC compatibility	<u> </u>			yes
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	24
AC operating voltage				
, 5	of 50/60Hz coil powered at 50Hz			
	pick-up			
	·	max	%Us	110

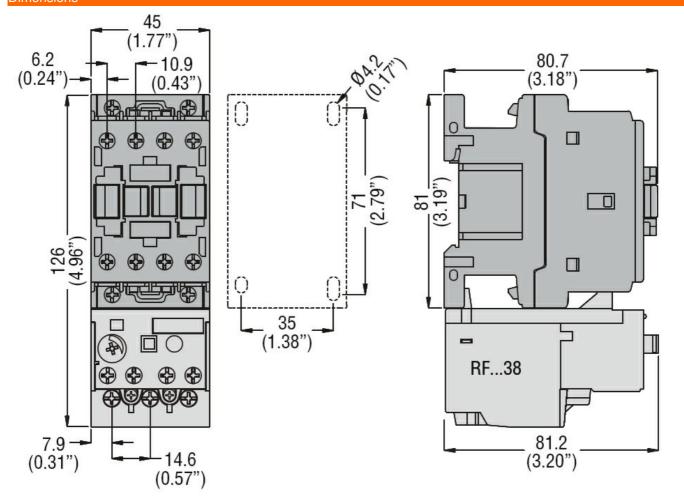


	dana and			
	drop-out	min	%Us	20
		min	%Us %Us	55
	of 50/60Hz coil powered at 60Hz	max	/005	55
	pick-up			
	рюк ир	min	%Us	85
		max	%Us	110
	drop-out		,,,,	
	·	min	%Us	20
		max	%Us	55
AC operating voltage	at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
	. ( 0011	holding	VA	6.5
	of 60Hz coil powered at 60Hz		3.74	7.5
		in-rush holding	VA VA	75 9
Dissipation at holding	<20°C 50∐¬	nolaing	W	2.5
Max cycles frequency			VV	2.5
Mechanical operation			cycles/h	3600
Operating times			oy oloo/11	0000
Average time for Us c	ontrol			
J	in AC			
	Closing NO			
	-	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			4.4
		min	ms	14
	Opening NC	max	ms	28
	Opening NC	min	ms	7
		max	ms	18
UL technical data		Hida		. 0
	) for three-phase AC motor			
(	,	at 480V	Α	11
		at 600V	Α	11
Yielded mechanical pe	erformance			
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	2
	for three-phase AC motor			
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	7.5
Operators of the Control of the Cont	Campanagata anna Process III	575/600V	HP	10
	iary contacts according to UL			A600 - P600
General USE				



#### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

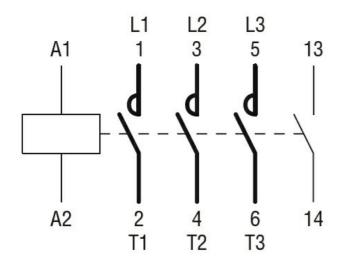
		AC current	Α	28
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
Dimensions				



Wiring diagrams

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT



#### Certifications and compliance

Compliance

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

Certificates

CCC

cULus

EAC

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching