



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					
aparamag magazara)	Operational frequency min	Hz	25		
	Operational frequency max	Hz	400		
Conventional free air thermal current Ith	- p - r - s - r - r - r - r - r - r - r - r	Α	28		
Operating current					
- F	Operational current AC1 (≤40°C)	Α	28		
Opera	tional 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) A 1					
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)					
	issipation 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		



		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	s simultaneously connectable		nr.	2
Conductor section	•			
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section	max		
	Tioxible We lag conductor cocilen	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max	111111	0
	Flexible C/W lug colludciol Section	min	mm²	1
				1
	Ele Silve Silve Late Level Level Level Level Constitution	max	mm²	4
	Flexible with insulated spade lug conductor section		2	4
		min	mm²	1
		max	mm²	4
	ection according to IEC/EN 60529			IP20 when wired
Auxiliary contact cha	racteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 c	designation			A600 - P600
Operational current	AC1 (≤40°C)		Α	28
Operating current A				
. 0		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current D	<u></u>		- ' '	
Operating content b	012	110V	Α	5.7
Operating current De	<u>^</u> 12	1100		5.1
Operating current D	013	24V	٨	E 7
			A	5.7
		48V	A	2.9
		60V	Α	2.3
		110V	Α	Screw / DIN rail
				35mm
		125V	A	0.6
		220V	A	0.2
A 11		600V	Α	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
		anomabio		Screw / DIN rail
Mounting				35mm
Weight			g	0.358
TTOIGHT			9	0.000



Operations					
Mechanical life				Cycles	20000000
Electrical life				Cycles	2000000
Safety related data					
Performance level B10	Od according to EN/ISO 134	489-1			
			rated load	Cicli	2000000
			mechanical load	Cicli	20000000
	ng to IEC/EN 609474-4-1				yes
EMC compatibility					yes
AC coil operating					
AC operating voltage					
	of 50/60Hz coil powered a				
	р	ick-up		0/11	
			min	%Us	0.8
	_i		max	%Us	1.1
	a	rop-out	min	%Us	0.2
			min	%Us %Us	0.2
	of 50/60Hz coil powered a	ot 60∐-z	max	/005	0.55
	·	ick-up			
	Р	ick-up	min	%Us	0.85
			max	%Us	1.1
	d	rop-out	max	7000	
			min	%Us	0.2
			max	%Us	0.55
	of 60Hz coil powered at 6	0Hz			
	•	ick-up			
	·	·	min	%Us	0.8
			max	%Us	1.1
	d	rop-out			
			min	%Us	0.2
			max	%Us	0.55
AC operating voltage					
	of 50/60Hz coil powered a	at 50Hz			
			in-rush	VA	75
	_		holding	VA	9
	of 50/60Hz coil powered a	at 60Hz			
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil powered at 6	0Hz			
			in-rush	VA	75
Discipation of bolds	<00°C 501!-		holding	VA	9
Dissipation at holding:	≥∠U U DUHZ			W	2.5
DC coil operating	20				
DC rated control voltage	J <del>c</del>		mey	\/	250
Max cycles frequency			max	V	250
Mechanical operations				Cycles/h	3600
Operating times				Cycles/II	3000
Average time for Us co	ontrol				
Average unite for 03 CC	in AC				
		losing NO			
	C	nosing NO	min	ms	8
			max	ms	24
			IIIdX	1113	<u></u>

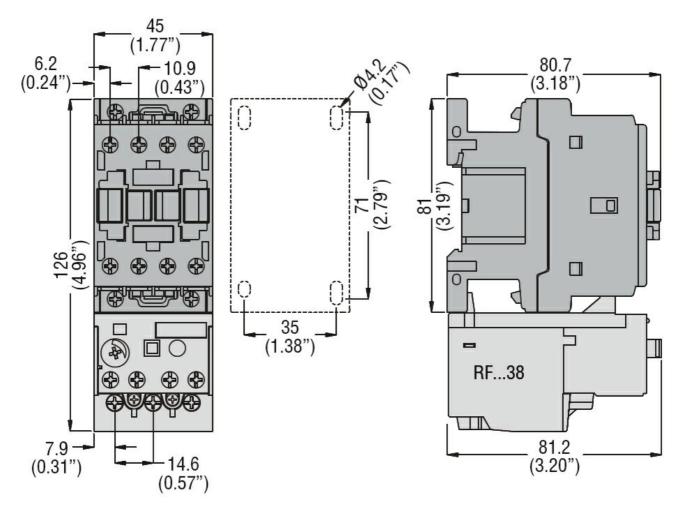




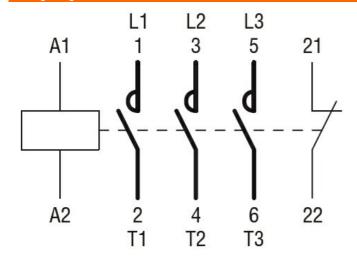
	Opening NO			
	Opening NO	min	ms	10
		max	ms	20
	Clasing NC	Шах	1115	20
	Closing NC			4.4
		min	ms	14
	O a a da a NO	max	ms	28
	Opening NC			_
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA	) for three-phase AC motor			
		at 480V	Α	11
		at 600V	Α	11
Yielded mechanical pe	erformance			
	for single-phase AC motor			
		at 110/120V	hp	1
		at 230V	hp	2
	for three-phase AC motor		<u> </u>	
	•	at 200/208V	hp	5
		at 220/230V	hp	5
		at 460/480V	hp	7.5
		at 575/600V	hp	10
Contact rating of auxili	iary contacts according to UL			A600 - P600
General USE	,			
30.101di 30L	Contactor			
	Contactor	AC current	Α	28
Other features		AC current		20
				2
Pollution degree				3
Dimensions				

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT



### 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



#### BF1201A110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT

CCC			
cULus	 _	_	
FAC			

ETIM 6 classification

EC000066 - Power contactor, AC switching