



Product designation			Power contactor
Product type designation			BF12
Contact characteristics			
Number of poles		Nr.	3
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		А	28
Operational current le			
	AC-1 (≤40°C)	А	28
	AC-1 (≤55°C)	А	23
	AC-1 (≤70°C)	А	20
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	А	7.9
Rated operational power AC-3 (T≤55°C)			
	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	17
	48V	A	15
	75V	A	13
	110V	A	6
IFC may automate to in DC1 with 1/D < 1 may with 2 malos in action	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	<241/	٨	20
	≤24V 48V	A	20
	48 V 75 V	A A	20 18
	75V 110V	A	13
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2200	A	I
$1 \ge 0$ max current is in DOT with $L/R \ge 1005$ with 3 poiss II selles	≤24V	٨	22
	≤24∨ 48V	A A	22
	46V 75V	A	22
	110V	A	16
	1100	л	10



BF1201A46060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ,

## 460VAC, 1NC AUXILIARY CONTACT 220V А 11 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 20

	≥∠4 v	A	20	
	48V	А	20	
	75V	A	20	
	110V	A	16	
	220V	Α	12	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series				
	≤24V	А	12	
	48V	A	11	
	75V	Α	10	
	110V	A	2	
	220V	Α	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series				
	≤24V	А	15	
	48V	A	13	
	75V	A	12	
	110V	Α	8	
	220V	Α	2	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series				
·	≤24V	А	18	
	48V	A	18	
	75V	A	15	
	110V	Α	12	
	220V	А	6	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series				
	≤24V	А	15	
	48V	Α	15	
	75V	Α	15	
	110V	А	16	
	220V	А	7	
Short-time allowable current for 10s (IEC/EN60947-1)		А	150	
Protection fuse		73	100	
FIOLECTION TUSE				
	gG (IEC)	A	32	
	aM (IEC)	Α	12	
Making capacity (RMS value)		Α	120	
Breaking capacity at voltage				
	440V	А	96	
	500V	A	96	
	690V	A	94	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	lth	W	2	
	AC-3	W	0.4	
Tightoning torque for terminale	70.0	vv	0.4	
Tightening torque for terminals				
	min	Nm	1.5	
	max	Nm	1.8	
	min	Ibin	1.1	
	max	lbin	1.5	
Tightening torque for coil terminal				
		N lun-	0.0	
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 460VAC, 1NC AUXILIARY CONTACT

BF1201A46060

		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	Awg/Kcmii	moy		10
	Flexible w/o lug conductor section	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	IIIdA	111111	0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	Шал	111111	4
	Flexible with insulated spade lug conductor section	min	mm²	1
		max	mm²	4
		Шал	111111	IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				property wired
Operating position				
		normal		Vertical plan
		allowable		±30°
		anowabid		Screw / DIN rai
Fixing				35mm
Weight			g	368
Conductor section			3	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	₹			
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
opoisig carron 2 c	-	110V	А	5.7
Operating current DC	13	1100	7.	0.1
		24V	А	5.7
		24 V 48 V	A	2.9
		4AV	/ \	
				2.3
		60V	А	2.3 1 25
		60V 110V	A A	1.25
		60V 110V 125V	A A A	1.25 1.1
		60V 110V 125V 220V	A A A A	1.25 1.1 0.55
Operations		60V 110V 125V	A A A	1.25 1.1
Operations Mechanical life		60V 110V 125V 220V	A A A A	1.25 1.1 0.55 0.2
Mechanical life		60V 110V 125V 220V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life		60V 110V 125V 220V	A A A A	1.25 1.1 0.55 0.2
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	60V 110V 125V 220V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	60V 110V 125V 220V 600V	A A A A cycles cycles	1.25 1.1 0.55 0.2 20000000 2000000
Mechanical life Electrical life Safety related data	-	60V 110V 125V 220V 600V	A A A A cycles cycles	1.25 1.1 0.55 0.2 20000000 2000000
Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	med	60V 110V 125V 220V 600V	A A A A cycles cycles	1.25 1.1 0.55 0.2 20000000 2000000 2000000 2000000
Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	-	60V 110V 125V 220V 600V	A A A A cycles cycles	1.25 1.1 0.55 0.2 20000000 2000000



BF1201A46060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 460VAC, 1NC AUXILIARY CONTACT

Rated AC voltage a	at 60Hz		V	460
C operating volta	ge			
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	
		min	%Us	20
	noumption at 20°C	max	%Us	55
AC average coll co	nsumption at 20°C			
	of 60Hz coil powered at 60Hz	in-rush	VA	75
		holding	VA VA	9
Dissipation at hold	ng <20°C 50Hz	Totaling	W	2.5
Max cycles freque			vv	2.0
Mechanical operati			cycles/h	3600
Operating times			5,000,11	
Average time for U	s control			
0	in AC			
	Closing NO			
	U U	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			_
		min	ms	7
JL technical data		max	ms	18
	LA) for three-phase AC motor			
	LA) for three-phase AC motor	at 480V	А	11
		at 600V	A	11
/ielded mechanica	l performance	at 000 v	Λ	11
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	2
	for three-phase AC motor	2007		-
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			
	-	AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protect	tion fuse, 600V			
	High fault			



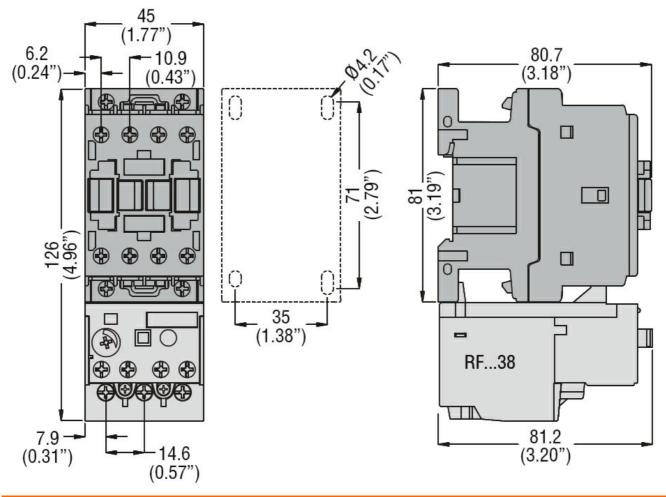
BF1201A46060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ,

ENERGY AND AUTOMATION	460VAC, 1NC AUXILIARY CONTAC		
	Short circuit current	kA	100
	Fuse rating	А	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	А	70
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			

Temperature

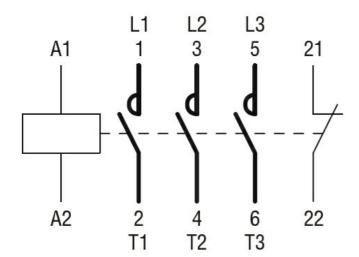
remperature					
-	Operating temperature				
		min	°C	-50	
		max	°C	70	
	Storage temperature				
		min	°C	-60	
		max	°C	80	
Max altitude			m	3000	
Resistance & Prot	tection				
Pollution degree				3	
D'un state					

Dimensions



## Wiring diagrams





## Certifications and compliance

Comp	liance

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

**ETIM 8.0** 

EC000066 -Power contactor, AC switching