



Product designation			Power contactor
Product type designation Contact characteristics			BF18
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	0
operational mequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	32
Operational current le		7.	02
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	18
	AC-4 (400V)	A	8.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	17
	48V	А	15
	75V	А	15
	110V	А	6
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	20
	48V	A	20
	75V	A	20
	110V	Α	13
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	A	22
	48V	A	22
	75V	A	20
	110V	А	16



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	220V	А	11	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	А	22	
	48V	А	22	
	75V	А	20	
	110V	А	18	
	220V	А	13	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	А	12	
	48V	А	11	
	75V	А	11	
	110V	А	2	
	220V	А	—	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	15	
	48V	А	13	
	75V	А	13	
	110V	А	8	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series				
	≤24V	А	18	
	48V	А	18	
	75V	А	16	
	110V	А	12	
	220V	Α	6	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series				
	≤24V	А	18	
	48V	А	18	
	75V	А	16	
	110V	A	13	
	220V	A	8	
Short-time allowable current for 10s (IEC/EN60947-1)		А	200	
Protection fuse				
	gG (IEC)	A	32	
	aM (IEC)	A	20	
Making capacity (RMS value)		Α	180	
Breaking capacity at voltage				
	440V	Α	144	
	500V	A	120	
	690V	A	94	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	Ith	W	2.6	
	AC-3	W	0.8	
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			0.0	
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	



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Man and the first		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
		max		10
	Flexible w/o lug conductor section			4
		min	mm²	1
	Flowible of the conductor contine	max	mm²	6
	Flexible c/w lug conductor section	min	mm2	4
		min	mm² mm²	1 4
	Elevible with insulated anode lug conductor postion	max		4
	Flexible with insulated spade lug conductor section	min	mm²	1
		max	mm²	1 4
		max		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				property wrea
Operating position				
		normal		Vertical plan
		allowable		±30°
		2.10112010		Screw / DIN ra
Fixing				35mm
Weight			g	360
Conductor section			0	
	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	15			
		230V	А	3
		400V	A	1.9
		400V 500V	A A	1.9 1.4
Operating current DC	:12			
Operating current DC	:12			
		500V	Α	1.4
Operating current DC Operating current DC		500V	Α	1.4
		500V 110V	A	1.4   5.7   5.7
		500V 110V 24V 48V	A A A A	1.4 5.7 5.7 2.9
		500V 110V 24V	A A A	1.4   5.7   5.7   2.9   2.3
		500V 110V 24V 48V 60V 110V	A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25
		500V 110V 24V 48V 60V 110V 125V	A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1
		500V 110V 24V 48V 60V 110V	A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operations Mechanical life Electrical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life Safety related data	213	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4     5.7     2.9     2.3     1.25     1.1     0.55     0.2     20000000     1600000
Operating current DC Operations Mechanical life Electrical life Safety related data	213 10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	213 10d according to EN/ISO 13489-1 me	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4     5.7     2.9     2.3     1.25     1.1     0.55     0.2     20000000     1600000     1600000     20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	213 10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000 1600000



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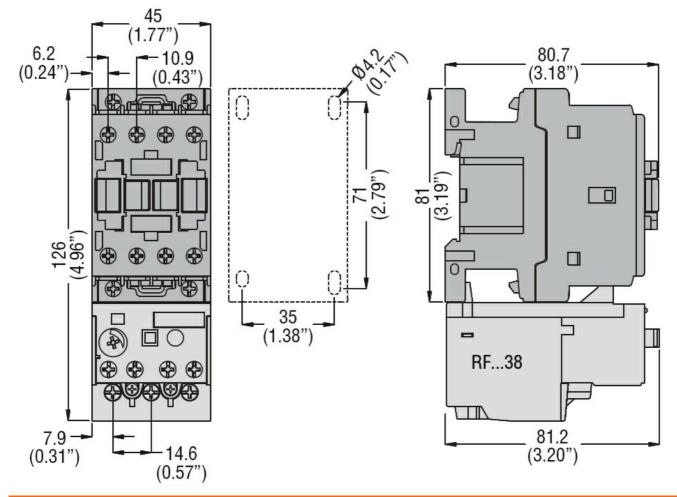
AC operating voltage	60Hz		V	48
to operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil con				
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holdin	g ≤20°C 50Hz		W	2.5
Max cycles frequenc	y .			
Mechanical operation	۱		cycles/h	3600
Operating times				
Average time for Us	control			
	in AC			
	Closing NO			
		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
		max	ms	18
JL technical data				
	A) for three-phase AC motor			
Υ.	, ,	at 480V	А	14
		at 600V	А	17
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	3
		2001		-
	for three-phase AC motor			
	for three-phase AC motor	200/208\/	HP	5
	for three-phase AC motor	200/208V 220/230V	HP HP	5 5
	for three-phase AC motor	220/230V	HP	5
	for three-phase AC motor	220/230V 460/480V	HP HP	5 10
General LISE	for three-phase AC motor	220/230V	HP	5
General USE		220/230V 460/480V	HP HP	5 10
General USE	for three-phase AC motor Contactor	220/230V 460/480V 575/600V	HP HP HP	5 10 15
General USE	Contactor	220/230V 460/480V	HP HP	5 10
General USE		220/230V 460/480V 575/600V AC current	HP HP HP	5 10 15 32
General USE	Contactor	220/230V 460/480V 575/600V AC current AC voltage	HP HP HP A	5 10 15 32 600
General USE	Contactor	220/230V 460/480V 575/600V AC current AC voltage AC current	HP HP A A	5 10 15 32 600 10
General USE	Contactor	220/230V 460/480V 575/600V AC current AC voltage AC current DC voltage	HP HP A A V A V	5 10 15 32 600 10 250
General USE Short-circuit protecti	Contactor Auxiliary contacts	220/230V 460/480V 575/600V AC current AC voltage AC current	HP HP A A	5 10 15 32 600 10



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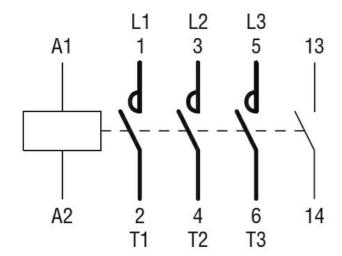
OR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ,	
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	Short circuit current	kA	100
	Fuse rating	А	60
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	А	80
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



## Wiring diagrams





## Certifications and compliance

## Compliance

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