



Product designation			Power contactor
Product type designation			BF18
Contact characteristics			
Number of poles		Nr.	4
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	32
Operational current le			
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	А	26
	AC-1 (≤70°C)	А	23
	AC-3 (≤440V ≤55°C)	А	18
	AC-4 (400V)	А	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)		А	200
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	20
Making capacity (RMS value)		А	180
Breaking capacity at voltage			
	440V	А	144
	500V	А	120
	690V	А	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			
5 5 1	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	IIIdA	Nr.	2
wax number of wires simulaneously connectable		INI.	2



**BF18T0D060** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 60VDC, 4NC

Conductor section				
	AWG/Kcmil			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	max		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor	or section		
		min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	496
Conductor section				
	AWG/kcmil conductor section			
A 111		max		10
Auxiliary contact chara Thermal current Ith	acteristics		۸	32
IEC/EN 60947-5-1 de	prignation		A	32 A600 - P600
Operations				A000 - F 000
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data			ý	
	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			YES
EMC compatibility				yes
DC coil operating				
DC rated control volta			V	60
DC operating voltage				
	pick-up		0/11	70
		min	%Us	70
	drop-out	max	%Us	125
				40
		min	%   le	10
		min max	%Us %Us	10 40
Average coil consum		min max	%Us %Us	10 40
Average coil consum		max	%Us	40
Average coil consum		maxin-rush		
Average coil consum Max cycles frequency	ption ≤20°C	max	%Us W	40 5.4
-	ption ≤20°C	maxin-rush	%Us W	40 5.4 5.4

Average time for Us control

in AC

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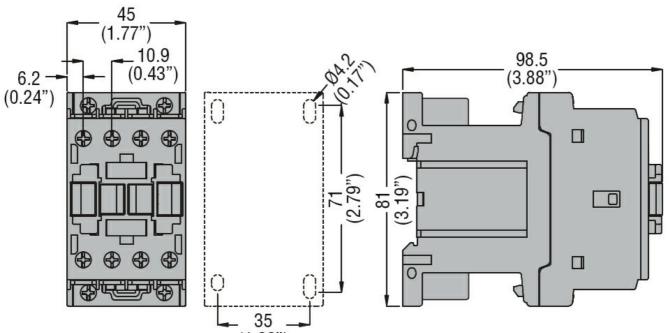


		Closing NO		100.0	0
			min	ms	8 24
		Opening NO	max	ms	24
		Opening NO	min	ms	10
			max	ms	20
		Closing NC	Пах	ine	20
		0.00	min	ms	14
			max	ms	28
		Opening NC			
		1 0	min	ms	7
			max	ms	18
	in DC				
		Closing NC			
		-	min	ms	24
			max	ms	30
		Opening NC			
			min	ms	47
			max	ms	57
UL technical data					
Full-load current (FLA	A) for three-phase A	AC motor			
			at 480V	Α	14
			at 600V	Α	17
Yielded mechanical p					
	for single-phase	AC motor			
			110/120V	HP	1
			230V	HP	3
	for three-phase	AC motor			
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contact	IS			
			AC voltage	V	600
			AC current	A	10
			DC voltage	V	250
Operator at 1991 1	11		DC current	A	1
Contact rating of auxi	mary contacts accor	aing to UL			SI - A600
Ambient conditions					
Temperature	Operating tame	oraturo			
	Operating temp	erature		°C	50
			min	°C O°	-50 70
	Storage temper	aturo	max	U	10
	Storage temperation	aluit	min	°C	-60
			min	°C O°	-60 80
Max altitude			max		3000
Resistance & Protect	tion			m	3000
Pollution degree					3
Dimensions					5
Binchalona					

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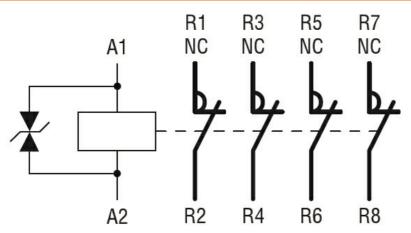


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(1.38")

Wiring diagrams



## Certifications and 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	1	
ETIM 8.0		EC000066 - Power contactor, AC switching