



Product designation Product type designation			Power contactor BF18
Contact characteristics			DF10
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ιτν	0
opolational inequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Пах	A	32
Operational current le			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)	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	Α	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	lbin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
<u></u>	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2



Conductor	section
Conductor	300000

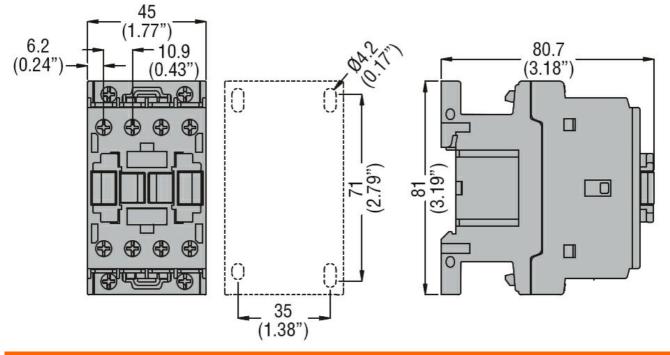
Conductor section				
	AWG/Kcmil			4.0
		max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	IIIdx	111111	0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conduct			·
		min	mm²	1
		max	mm²	4
Power terminal protect	tion according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	360
Conductor section			0	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			А	32
IEC/EN 60947-5-1 de	signation			A600 - P600
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			4000000
		rated load mechanical load	cycles	1600000 20000000
Mirror contate accordi	ng to IEC/EN 609474-4-1	mechanicarioau	cycles	YES
EMC compatibility	ng to iec/en 609474-4-1			
AC coil operating				yes
Rated AC voltage at 6	:0Hz		V	230
AC operating voltage			•	200
	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 consi	•			
	of 60Hz coil powered at 60Hz			7-
		in-rush	VA	75
Dissipation at helding	<20°C 50H-	holding	VA W	9
Dissipation at holding			VV	2.5
Max cycles frequency Mechanical operation			cycles/h	3600
			5,003/11	



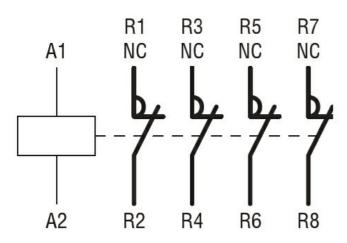
Operating times				
Average time for Us	control			
0	in AC			
	Closing NO			
	5	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
	Ŭ	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
	A) for three-phase AC motor			
Υ.		at 480V	А	14
		at 600V	A	17
Yielded mechanical	performance			
	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		010,0001		
	Contactor			
	Contactor	AC current	А	32
	Auxiliary contacts			02
	Advinary contacto	AC voltage	V	600
		AC current	Å	10
		DC voltage	V	250
		DC voltage DC current	Å	1
Contact rating of au	xiliary contacts according to UL	Do ouriont	/ \	SI - A600
Ambient conditions				
Temperature				
romporature	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIdX	U	10
	Giorage iemperature	min	°C	-60
			°C	80
Max altitude		max		3000
Resistance & Protect	ction		m	3000
				3
Pollution degree				ა
Dimensions				



BF18T0A23060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 230VAC, 4NC



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		
ETIM 8.0		EC000066 - Power contactor, AC switching