



Product designation Product type designation			Power contactor BF18
Contact characteristics			BITO
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		А	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)	Α	20
Making capacity (RMS value)		Α	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)			
	lth	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	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		Nr.	2



48VAC, 2NO AND 2NC

Conductor section

Conductor Section	AWG/Kcmil			
	AWG/RCIIII	max		10
	Flexible w/o lug conducto			10
	0	min	mm²	1
		max	mm²	6
	Flexible c/w lug conducto			
		min	mm²	1
	Flexible with insulated spa	max	mm²	4
	Flexible with insulated spa	ade lug conductor section min	mm²	1
		max	•	4
	tion opporting to IEC/EN C			IP20 when
Power terminal protec	ction according to IEC/EN 60	1529		properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	362
Conductor section			9	
	AWG/kcmil conductor sec	ction		
		max		10
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data	0 L	100.1		
Performance level B1	0d according to EN/ISO 134			400000
		rated load mechanical load	cycles cycles	1600000 20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		Cycles	YES
EMC compatibility				yes
AC coil operating				yes
Rated AC voltage at 6	60Hz		V	48
AC operating voltage				
	of 60Hz coil powered at 6	0Hz		
	р	ick-up		
		min	%Us	80
		max	%Us	110
	d	rop-out		
		min		20
	mention at 00%0	max	%Us	55
AC average coil cons	•	047		
	of 60Hz coil powered at 6	UHZ in-rush	VA	75
		holding	VA VA	9
Dissipation at holding	≤20°C 50Hz	noung	W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of	ontrol			
	in AC			

BF18T2A04860

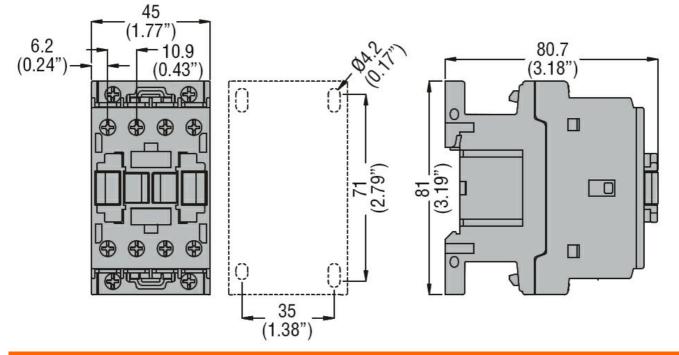


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 48VAC, 2NO AND 2NC

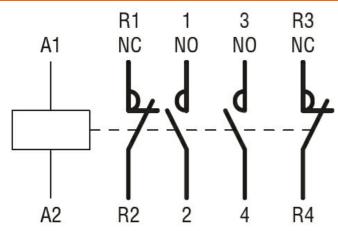
	Closing NO			
	-	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
	) for three-phase AC motor			
, , , , , , , , , , , , , , , , , , ,	, i	at 480V	А	14
		at 600V	А	17
Yielded mechanical pe	erformance			
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	3
	for three-phase AC motor	2001		0
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE		010/0001		10
	Contactor			
	Contactor	AC current	А	32
Ambient conditions		AC current	~	52
Temperature				
remperature	Operating tomporature			
	Operating temperature	min	°C	-50
		min	°C O°	-50 70
	Storago tomporaturo	max	U	10
	Storage temperature		°C	60
		min	°C °C	-60
NA		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			<u>^</u>
Pollution degree				3
Dimensions				



BF18T2A04860 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 48VAC, 2NO AND 2NC



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