

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 230VAC



Product designation		Power contactor
Product type designation		BF18
Contact characteristics		
Number of poles	nr.	4
Rated insulation voltage Ui	V	690
Rated impulse withstand voltage Uimp	kV	6
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	Α	32
Operating current		
Operational current AC1 (≤40°C)	Α	32
Operational current AC3 (≤440V ≤55°C)	Α	18
Operational current AC4 (400V)	Α	8.5
Rated operational power AC1 (T≤40°C)		
230V	kW	12
400V	kW	21
500V	kW	26
690V	kW	36
Rated operational power AC3 (T≤55°C)		
230V	kW	4
400V	kW	7.5
415V	kW	9
440V	kW	9
500V	kW	10
690V	kW	10
Short-time allowable current for 10s (IEC/EN60947-1)	Α	200
Protection fuse	_	
gG (IEC)	Α	32
aM (IEC)	Α	20
Making capacity (RMS value)	Α	180
Breaking capacity at voltage	^	4.4.4
Breaking capacity 440V	A	144
Breaking capacity 500V	A	120
Breaking capacity 690V	A mΩ	94 2.5
Resistance per pole (average value)  Power dissipation per pole (average value)	11177	2.5
, , , , ,	W	2.6
Power dissipation pole (average value) Ith AC3	W	2.6 0.8
Tightening torque for terminals	V V	0.0
min	Nm	1.5
max	Nm	1.8
min	lbft	1.1
max	lbft	1.5
Tightening torque for coil terminal	1511	1.0



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara	acteristics			
Operational current A	C1 (≤40°C)		Α	32
Operating current DC	13			
		110V	Α	Screw / DIN rail
		1100	Α	35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.36
Operations			9	0.00
Mechanical life			Cycles	20000000
Electrical life			Cycles	1600000
Safety related data			C ) 5.55	
· ·	10d according to EN/ISO 13489-1			
		rated load	Cicli	1600000
	man	hanical load	Cicli	2000000
Mirror contats accord	ing to IEC/EN 609474-4-1	. Idiliodi lodu	0.011	yes
EMC compatibility	ing to IEO/EN 000T/4 T 1			yes
AC coil operating				y <del>c</del> o
AC operating voltage				
Ac operating voitage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ριοκ-αρ	min	%Us	0.8
		111111	/003	0.0



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			max	%Us	1.1
		drop-out	Παλ	/003	1.1
		drop-out	min	0/110	0.2
			min	%Us	0.2
	. ( 50/0011		max	%Us	0.55
	of 50/60Hz coil po				
		pick-up	_		
			min	%Us	0.85
			max	%Us	1.1
		drop-out			
			min	%Us	0.2
			max	%Us	0.55
	of 60Hz coil power	red at 60Hz			
	·	pick-up			
			min	%Us	0.8
			max	%Us	1.1
		drop-out	max	7000	
		drop out	min	%Us	0.2
			max	%Us	0.55
AC an areting valtage			Παλ	/003	0.55
AC operating voltage	( 50/0011 "				
	of 50/60Hz coil po	wered at 50Hz			7-
			in-rush	VA	75
			holding	VA	9
	of 50/60Hz coil po	wered at 60Hz			
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil power	red at 60Hz			
	•		in much	VA	75
			in-rush	٧A	10
Dissipation at holding:	≤20°C 50Hz		holding	VA	9
Dissipation at holding:	≤20°C 50Hz				
Max cycles frequency			holding	VA W	9 2.5
Max cycles frequency Mechanical operations			holding	VA	9 2.5
Max cycles frequency Mechanical operations Operating times			holding	VA W	9 2.5
Max cycles frequency Mechanical operations	ontrol		holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times		Olasia w NO	holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO	holding	VA W Cycles/r	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO	holding	VA W Cycles/r ms	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol	-	holding	VA W Cycles/r	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO Opening NO	holding min max	VA W Cycles/r ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operations Operating times	ontrol	-	holding	VA W Cycles/r ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operations Operating times	ontrol	Opening NO	holding min max	VA W Cycles/r ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operations Operating times	ontrol	-	min max	VA W Cycles/r ms ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operations Operating times	ontrol	Opening NO	min max	VA W Cycles/r ms ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operations Operating times	ontrol	Opening NO	min max min max	VA W Cycles/r ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operations Operating times	ontrol	Opening NO Closing NC	min max min max	WCycles/rms ms ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operations Operating times	ontrol	Opening NO	min max min max min max	VA W Cycles/h ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times	ontrol	Opening NO Closing NC	min max min max min max min max	MS ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol	Opening NO Closing NC	min max min max min max	VA W Cycles/h ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max	MS ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max	WCycles/hms ms m	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max at 480V	WCycles/rms ms m	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max	WCycles/hms ms m	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC ofor three-phase AC	Opening NO Closing NC Opening NC motor	min max min max min max min max at 480V	WCycles/rms ms m	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC	Opening NO Closing NC Opening NC motor	min max min max min max at 480V at 600V	WCycles/rms ms m	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC ofor three-phase AC	Opening NO Closing NC Opening NC motor	min max min max min max min max at 480V	WCycles/rms ms m	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC ofor three-phase AC	Opening NO Closing NC Opening NC motor	min max min max min max at 480V at 600V	W Cycles/h ms ms ms ms ms ms A A	9 2.5 3600 8 24 10 20 14 28 7 18

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 230VAC

for three-phase AC motor			
·	at 200/208V	hp	5
	at 220/230V	hp	5
	at 460/480V	hp	10
	at 575/600V	qd	15

General USE

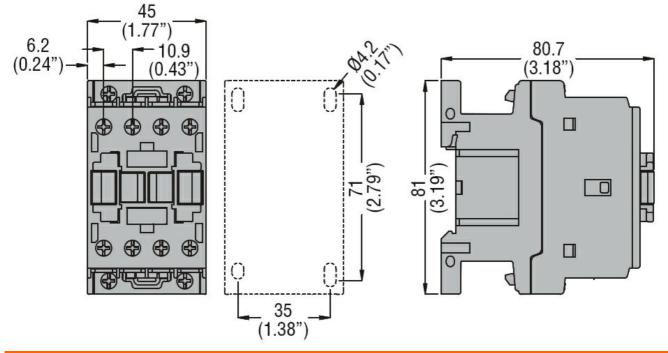
Contactor

AC current A 32

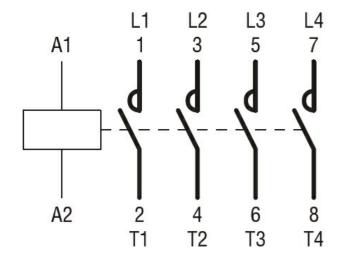
Other features

Pollution degree

### Dimensions



#### Wiring diagrams



#### Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1



**ENERGY AND AUTOMATION** 

#### BF18T4A230

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ,

	UL 60947-1	
	UL 60947-4-1	
Compliance		
-	CCC	
	cULus	
	FAC	

ETIM 6 classification

EC000066 - Power contactor, AC switching

BF18T4A230