

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 400VAC



Product designation Product type designation			Power contactor 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
0	perational 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)	A	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			
	Breaking capacity 440V	Α	144
	Breaking capacity 500V	Α	120
	Breaking capacity 690V	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
Pow	ver dissipation pole (average value) Ith	W	2.6
	AC3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
Tightening torque for coil terminal	max	Ibft	1.5



BF18T4A400

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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		2	
		min	mm²	1
		max	mm²	4
	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact char			Δ	00
Operational current A			Α	32
Operating current DC	13			Oanassa / DINI nail
		110V	Α	Screw / DIN rail 35mm
Ambient conditions				3311111
Temperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIdx		70
	Clorage temperature	min	°C	-60
		max	°C	80
Max altitude		max	 m	3000
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		anowabic		Screw / DIN rail
Mounting				35mm
Weight			g	0.368
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	1600000
Safety related data				
· ·	0d according to EN/ISO 13489-1			
	-	rated load	Cicli	1600000
	mech	nanical load	Cicli	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
EMC compatibility	-			yes
AC coil operating				·
AC operating voltage				
. 5 5	of 50/60Hz coil powered at 50Hz			
	pick-up			
	· ·	min	%Us	0.8





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		max	%Us	1.1
	drop-out		,,,,,	
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	pron ap	min	%Us	0.85
		max	%Us	1.1
	drop-out			
	·	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	, pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
	-1	min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
1330	of 50/60Hz coil powered at 50Hz			
	o. co, co co poo. co. a. co	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
	or octor in con powerou at cornin	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
	0. 00. 12 00. poworou at 00. 12		VA	75
		in-rush	VA	
		in-rush holdina		
Dissipation at holding:	≤20°C 50Hz	in-rusn 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	ontrol in AC	holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times	ontrol	holding	VA W	9 2.5
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding	VA W Cycles/r	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding	VA W Cycles/h	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	holding	VA W Cycles/h	9 2.5 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	holding min max	VA W Cycles/r ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	min max	VA W Cycles/r ms ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO 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 in AC Closing NO 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 in AC Closing NO Opening NO	min max min max	VA W Cycles/r ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	min max min max	VA W Cycles/r ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC	min max min max min max	VA W Cycles/h 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 Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	VA W Cycles/r 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 Closing NO Opening NO Closing NC	min max min max min max min max	VA W Cycles/r 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 Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	VA W Cycles/r 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 Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max min max	VA W Cycles/h ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max at 480V	VA W Cycles/r ms ms ms ms ms ms ms	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 Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max at 480V	VA W Cycles/r ms ms ms ms ms ms ms	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 Closing NO Opening NO Closing NC Opening NC of three-phase AC motor	min max min max min max at 480V	VA W Cycles/r ms ms ms ms ms ms ms	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 Closing NO Opening NO Closing NC Opening NC of three-phase AC motor	min max min max min max at 480V at 600V	VA 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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for three-phase AC motor			
·	at 200/208V	hp	5
	at 220/230V	hp	5
	at 460/480V	hp	10
	at 575/600V	hp	15

General USE

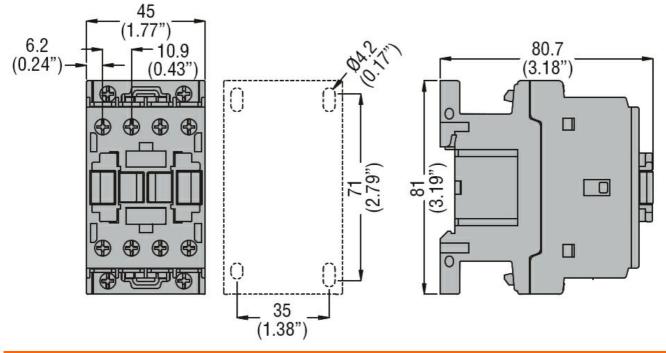
Contactor

AC current A 32

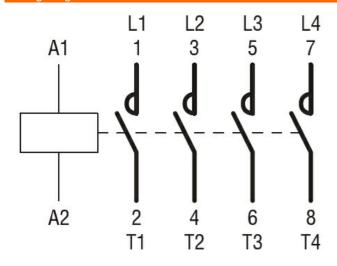
Other features

Pollution degree 3

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

BF18T4A400

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 400VAC

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

ETIM 6 classification

EC000066 - Power contactor, AC switching