

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ,



		Control Control
Product designation		Power contacto
Product type designation		BF40
Contact characteristics		
Number of poles	nr.	4
Rated insulation voltage Ui	V	1000
Rated impulse withstand voltage Uimp	kV	8
Operating frequency	IX V	0
	⊔	25
Operational frequency min		25
Operational frequency max		400
Conventional free air thermal current Ith	Α	70
Operating current	_	
Operational current AC1 (≤40°C)		70
Operational current AC3 (≤440V ≤55°C)		40
Operational current AC4 (400V)	A	24
Rated operational power AC1 (T≤40°C)		
230\		26
400V	kW	46
500V	kW	58
690V	kW	79
Rated operational power AC3 (T≤55°C)		
230\	kW	11
400∨	kW	18.5
415V	kW	22
440\	kW	22
500V	kW	22
690V	kW	30
1000V		18.5
Short-time allowable current for 10s (IEC/EN60947-1)	Α	400
Protection fuse		
gG (IEC)	Α	100
aM (IEC)		50
Making capacity (RMS value)	A	400
Breaking capacity (Kikis value)		700
	^	320
Breaking capacity 440V		
Breaking capacity 500V Breaking capacity 690V		265 256
Resistance per pole (average value)	mΩ	0.8
Power dissipation per pole (average value)	147	0.0
Power dissipation pole (average value) Ith		3.9
AC3	W	1.3
Fightening torque for terminals		
mir		4
max		5
	lbft	2.95
mir	IDIL	

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Tightening torque for c	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires s	simultaneously connectable		nr.	2
Conductor section	•			
	AWG			
		min		14
		max		2
	Flexible w/o lug conductor section	THOX		
	rickible w/o lag conductor scotlori	min	mm²	1.5
		max	mm²	35
	Flevible of what conductor costion	IIIax	111111	33
	Flexible c/w lug conductor section	min	mm²	1 5
		min	mm²	1.5
	"	max	mm²	35
	tion according to IEC/EN 60529			IP20 front
Auxiliary contact chara			^	70
Operational current AC			Α	70
Operating current DC1	13			
		110V	Α	Screw / DIN rail
		1101	,,	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				
- F		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Mounting				35mm
Weight			g	1.24
Operations			9	1.27
Mechanical life			Cyclos	15000000
			Cycles	
Electrical life			Cycles	1500000
Safety related data	0ddia n to EN//00 40400 4			
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	Cicli	1500000
		mechanical load	Cicli	15000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	r	min	%Us	0.8
		max	%Us	1.1
	drop-out	max	,003	
	arop out			





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		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	ριοιν αρ	min	%Us	0.85
		max	%Us	1.1
	drop-out	IIIdx	7003	1.1
	drop-out	min	%Us	0.4
			%Us	0.55
	. (0011	max	%08	0.55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	0.0
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				_
	of 50/60Hz coil powered at 50Hz			
	-	in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	0. 00,001.2 00 po0.0 a 002	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	Holding	٧, ١	
	of doll 12 coll powered at doll 12	in-rush	VA	210
Dissipation at halding	<00°O 5011-	holding	VA	15
Dissipation at holding	≤20°C 50HZ		W	5.0
A CONTRACTOR OF THE CONTRACTOR				
Max cycles frequency			0 1 "	2222
Mechanical operations			Cycles/h	3600
Mechanical operations Operating times			Cycles/h	3600
Mechanical operations	ontrol		Cycles/h	3600
Mechanical operations Operating times	ontrol in AC		Cycles/h	3600
Mechanical operations Operating times	ontrol		Cycles/h	3600
Mechanical operations Operating times	ontrol in AC	min	Cycles/h	12
Mechanical operations Operating times	ontrol in AC			
Mechanical operations Operating times	ontrol in AC	min	ms	12
Mechanical operations Operating times	ontrol in AC Closing NO	min	ms	12
Mechanical operations Operating times	ontrol in AC Closing NO	min max	ms ms	12 28
Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO	min max min	ms ms	12 28 8
Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO	min max min	ms ms	12 28 8
Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO	min max min max	ms ms ms	12 28 8 22
Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO	min max min max at 480V	ms ms ms ms	12 28 8 22
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of three-phase AC motor	min max min max	ms ms ms	12 28 8 22
Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance	min max min max at 480V	ms ms ms ms	12 28 8 22
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of three-phase AC motor	min max min max at 480V at 600V	ms ms ms ms	12 28 8 22 40 32
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance	min max min max at 480V at 600V	ms ms ms A A	12 28 8 22 40 32
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance for single-phase AC motor	min max min max at 480V at 600V	ms ms ms ms	12 28 8 22 40 32
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance	min max min max at 480V at 600V at 110/120V at 230V	ms ms ms A A	12 28 8 22 40 32 3 7.5
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance for single-phase AC motor	min max min max at 480V at 600V at 110/120V at 230V at 200/208V	ms ms ms ms	12 28 8 22 40 32 3 7.5
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance for single-phase AC motor	min max min max at 480V at 600V at 110/120V at 230V at 200/208V at 220/230V	ms ms ms A A	12 28 8 22 40 32 3 7.5
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance for single-phase AC motor	min max min max at 480V at 600V at 110/120V at 230V at 220/230V at 220/230V at 460/480V	ms ms ms ms	12 28 8 22 40 32 3 7.5
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance for single-phase AC motor	min max min max at 480V at 600V at 110/120V at 230V at 200/208V at 220/230V	ms ms ms A A	12 28 8 22 40 32 3 7.5
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA)	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance for single-phase AC motor	min max min max at 480V at 600V at 110/120V at 230V at 220/230V at 220/230V at 460/480V	ms ms ms A A	12 28 8 22 40 32 3 7.5
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA) Yielded mechanical pe	Closing NO Opening NO Opening NO Of three-phase AC motor erformance for single-phase AC motor for three-phase AC motor	min max min max at 480V at 600V at 110/120V at 230V at 220/230V at 220/230V at 460/480V	ms ms ms A A	12 28 8 22 40 32 3 7.5
Mechanical operations Operating times Average time for Us of UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC Closing NO Opening NO of for three-phase AC motor erformance for single-phase AC motor	min max min max at 480V at 600V at 110/120V at 230V at 220/230V at 220/230V at 460/480V	ms ms ms A A	12 28 8 22 40 32 3 7.5

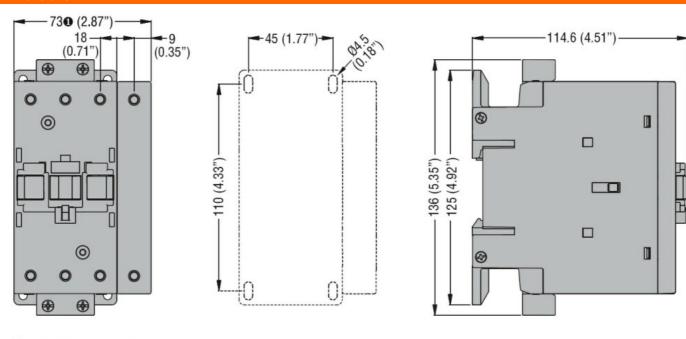
ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ,

Other features

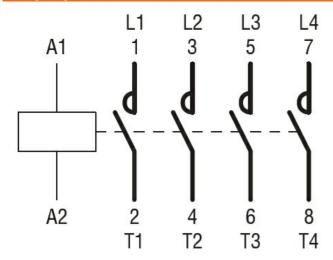
Pollution degree 3

Dimensions



BF80T2 82mm/3.23"

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

UL 60947-1

UL 60947-4-1

Compliance

cULus

ETIM 6 classification

EC000066 - Power contactor, AC switching