

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 110VAC



		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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min	Nm	0.8
max	Nm	1
min	lbft	0.8
max	lbft	0.74
	nr.	2
min		14
		2
THOX		
min	mm²	1.5
		35
IIIdA	111111	
min	mm²	1.5
max	mm-	35
		IP20 front
	^	70
	Α	70
110V	Α	Screw / DIN rail
		35mm
min		-50
max	°C	70
min		-60
max	°C	80
	m	3000
normal		Vertical plan
allowable		±30°
		Screw / DIN rail
		35mm
		1.24
	g	1.24
	g	1.24
	Cycles	15000000
	Cycles	15000000
rated land	Cycles Cycles	15000000 1500000
rated load	Cycles Cycles Cicli	15000000 1500000 1500000
rated load mechanical load	Cycles Cycles	1500000 1500000 1500000 15000000
	Cycles Cycles Cicli	15000000 1500000 1500000 15000000 yes
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	Cycles Cycles Cicli	15000000 1500000 1500000 15000000 yes
	Cycles Cycles Cicli Cicli	15000000 1500000 1500000 15000000 yes yes
	Cycles Cycles Cicli	1500000 1500000 1500000 15000000 yes
mechanical load	Cycles Cycles Cicli Cicli	15000000 1500000 1500000 15000000 yes yes
mechanical load	Cycles Cycles Cicli Cicli	15000000 1500000 1500000 15000000 yes yes
	min max min max 110V min max normal	max lbft nr. min max min mm² max mm² min mm² max mm² A 110V A min °C max °C max °C max °C mormal





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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

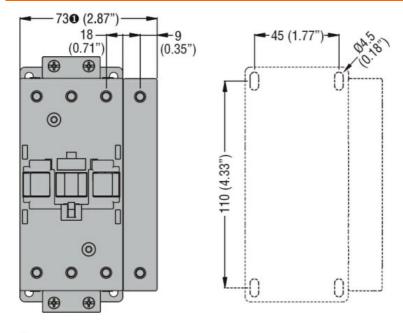
ENERGY AND AUTOMATION

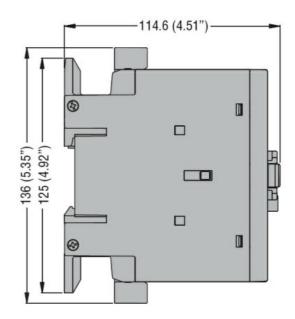
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Other features

Pollution degree 3

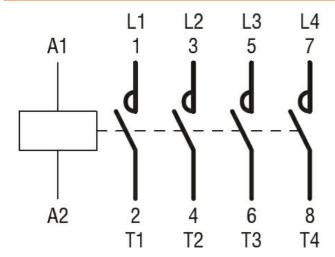
Dimensions





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