

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 230VAC



		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)	Α	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	ibit	

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Tightening torque for co	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires s	imultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		max		2
	Flexible w/o lug conductor section			
	3	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	Tionible of Wildy confederal decitor	min	mm²	1.5
		max	mm²	35
Dower terminal protect	tion according to IEC/EN 60529	IIIdx	111111	IP20 front
Auxiliary contact chara				11 20 110111
Operational current AC			А	70
	,		А	10
Operating current DC1	J			Corour / DINI!
		110V	Α	Screw / DIN rail 35mm
Ambient conditions				JUIIII
Ambient conditions				
Temperature				
	Operating temperature		0.0	
		min	°C	-50
	2:	max	°C	70
	Storage temperature		2.0	
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	1.24
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	1500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	Cicli	1500000
		mechanical load	Cicli	15000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility	-			yes
AC coil operating				,
AC operating voltage				
, to operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ріск-ир	min	%Us	0.8
		min		
	-l	max	%Us	1.1
	drop-out			



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		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.4
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up	_		
		min	%Us	0.8
		max	%Us	1.1
	drop-out		0/11-	0.0
		min	%Us	0.2
A O		max	%Us	0.55
AC operating voltage	of FO/GOLLT gold newared at FOLLT			
	of 50/60Hz coil powered at 50Hz	in-rush	VA	210
		holding	VA VA	15
	of FO/60Hz and navored at 60Hz	nolaling	VA	13
	of 50/60Hz coil powered at 60Hz	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	Holding	٧٨	13
	or our iz con powered at our iz	in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz	nolalig	W	5.0
	-20 0 00.12			0.0
Max cycles frequency				
Max cycles frequency Mechanical operations			Cycles/h	3600
Max cycles frequency Mechanical operations Operating times			Cycles/h	3600
Mechanical operations			Cycles/h	3600
Mechanical operations Operating times			Cycles/h	3600
Mechanical operations Operating times	ontrol		Cycles/h	
Mechanical operations Operating times	ontrol in AC	min	Cycles/h	12
Mechanical operations Operating times	ontrol in AC Closing NO			
Mechanical operations Operating times	ontrol in AC	min max	ms ms	12 28
Mechanical operations Operating times	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	min max	ms ms	12 28
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
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	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 at 220/230V	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 220/230V at 220/230V at 460/480V	ms ms ms ms hp hp hp hp	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 ms hp hp hp hp	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 Of three-phase AC motor Of three-phase AC motor Of 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 ms hp hp hp hp	12 28 8 22 40 32 3 7.5

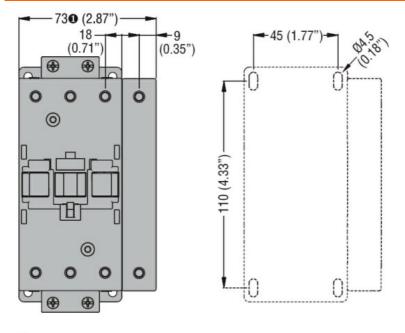
ENERGY AND AUTOMATION

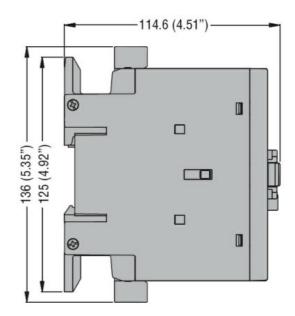
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Other features

Pollution degree 3

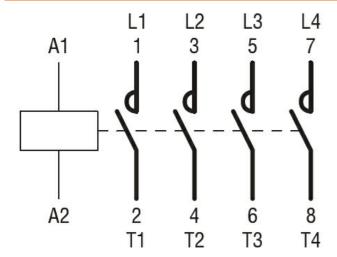
Dimensions





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