

## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,



Product designation Product type designation		Power contactor BF65
Contact characteristics		2. 00
Number of poles	nr.	3
Rated insulation voltage Ui	V	1000
Rated impulse withstand voltage Uimp	kV	8
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	Α	100
Operating current		_
Operational current AC3 (≤440V ≤55°C)	Α	65
Operational current AC4 (400V)	Α	31
Short-time allowable current for 10s (IEC/EN60947-1)	Α	640
Protection fuse		
gG (IEC)	Α	125
aM (IEC)	Α	80
Making capacity (RMS value)	Α	650
Breaking capacity at voltage		
Breaking capacity 440V	Α	520
Breaking capacity 500V	Α	425
Breaking capacity 690V	A	376
Resistance per pole (average value)	mΩ	0.8
Power dissipation per pole (average value)		_
Power dissipation pole (average value) Ith	W	8
AC3	W	3.4
Tightening torque for terminals	Nima	4
min	Nm	4
max	Nm Ibft	5 2.95
min	lbft	3.69
Tightening torque for coil terminal	IDIL	3.09
min	Nm	0.8
max	Nm	1
min	lbft	0.59
max	lbft	0.74
max number of wires simultaneously connectable	nr.	2
Conductor section		
AWG		
min		18
max		2
Flexible w/o lug conductor section		
min	mm²	1.5
max	mm²	35
Power terminal protection according to IEC/EN 60529		IP20

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Ambient conditions				
emperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3,000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Veight			g	1
Operations				
Mechanical life			Cycles	15,000,000
Electrical life			Cycles	1400000
Safety related data				
Mirror contats accord	ing to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 5	50/60Hz, 60Hz			
		min	V	12
		max	V	600
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	_		
		min	%Us	80
		max	%Us	110
	drop-out	•	0/11-	00
		min	%Us	20
	of 50/001  - apil powered at 001  -	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		min max	%Us %Us	110
	drop-out	IIIdX	/003	110
	Grop out	min	%Us	40
		max	%Us	55
	of 60Hz coil powered at 60Hz	max		
	pick-up			
	F <b>%F</b>	min	%Us	80
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	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			
	of 50/60Hz coil powered at 60Hz	in-rush	VA	195 13



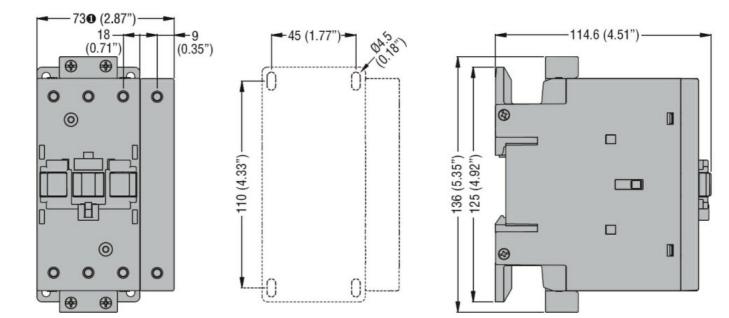


# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ, 24VAC

	of 60Hz coil powere	ed at 60Hz			
	01 001 12 0011 powere	74 41 001 12	in-rush	VA	210
			holding	VA	15
Dissipation at holding ≤20°C 50Hz				W	5
Max cycles frequency					
Mechanical operations				Cycles/h	3,600
Operating times				•	
Average time for Us co	ntrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO	_		_
			min	ms	8
			max	ms	22
	in DC	01 : 110			
		Closing NO	i		40
			min	ms	40
		Opening NO	max	ms	85
		Opening NO	min	ms	20
			max	ms	55
UL technical data			max	1113	
Full-load current (FLA)	for three-phase AC r	notor			
			at 480V	Α	65
			at 600V	Α	62
Yielded mechanical per	rformance				
•	for three-phase AC	motor			
	·		at 200/208V	hp	20
			at 220/230V	hp	25
			at 460/480V	hp	50
			at 575/600V	hp	60
Contact rating of auxilia	ary contacts according	g to UL			SI - A600
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contacts			_	
			AC voltage	V	600
			AC current	A	10
			DC voltage	V	250
Dimensions			DC current	Α	1
Dimensions					

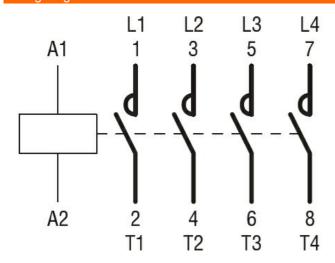
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### BF80T2 82mm/3.23"

#### 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