BF8000A400



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ, 400VAC



Product designation		Power contactor
Product type designation		BF80
Contact characteristics		
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		400
Conventional free air thermal current Ith	А	115
Operating current		
Operational current AC3 (≤440V ≤55°C)	А	80
Operational current AC4 (400V)	А	38
Short-time allowable current for 10s (IEC/EN60947-1)	А	640
Protection fuse		
gG (IEC)	А	125
aM (IEC)		80
Making capacity (RMS value)	А	800
Breaking capacity at voltage		
Breaking capacity 440V	Α	640
Breaking capacity 500V	Α	625
Breaking capacity 690V	Α	456
Resistance per pole (average value)	mΩ	0.6
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	7.9
AC3	W	3.8
Tightening torque for terminals		
min	Nm	4
max	Nm	5
min	lbft	2.95
max	lbft	3.69
Tightening torque for coil terminal		
min		0.8
max		1
min		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		1.5
max	mm²	35
Power terminal protection according to IEC/EN 60529		IP20

Power terminal protection according to IEC/EN 60529

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Ambient conditions Temperature

Temperature				
	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
Weight			g	1
Operations				
Mechanical life			Cycles	15,000,000
Electrical life			Cycles	1300000
Safety related data			2,5.00	
	ling to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				100
Rated AC voltage at {	50/60Hz 60Hz			
Nated AO Voltage at C		min	V	12
		max	v	600
AC operating voltage		Παλ	v	000
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/110	00
		min	%Us	80
		max	%Us	110
	drop-out		0/11	
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	40
		max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up			
		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			
		in-rush	VA	195

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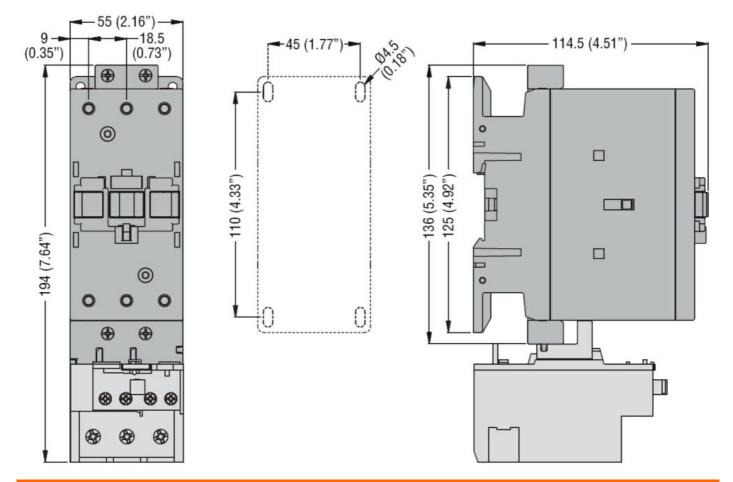
	of 60Hz coil powere	d at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding	≤20°C 50Hz		<u>0</u>	W	5
Max cycles frequency					
Mechanical operations				Cycles/h	3,600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			10
			min	ms	40
			max	ms	85
		Opening NO			20
			min	ms	20 55
UL technical data			max	ms	55
Full-load current (FLA)	for three-phase AC m	otor			
			at 480V	А	77
			at 600V	A	77
Yielded mechanical pe	erformance		4,0001		
	for three-phase AC	notor			
			at 200/208V	hp	25
			at 220/230V	hp	30
			at 460/480V	hp	60
			at 575/600V	hp	75
Contact rating of auxilia	ary contacts according	to UL		· ·	SI - A600
General USE					
	Contactor				
			AC current	А	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	А	10
			DC voltage	V	250
			DC current	А	1
Dimensions					

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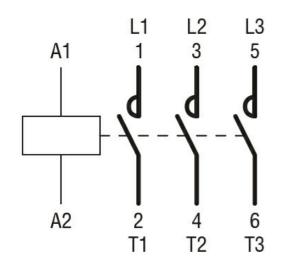
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Wiring diagrams



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

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ETIM 6 classification

EC000066 - Power contactor, AC switching