

OVALO CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 50KVAR, 230VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK80
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	Hz	400
Conventional free air thermal current Ith		Α	115
Operating current			
O	perational 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)	A	80
Making capacity (RMS value)		A	800
Breaking capacity at voltage			
	Breaking capacity 440V	A	640
	Breaking capacity 500V	A	625
	Breaking capacity 690V	<u>A</u>	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)		14/	7.0
POW	ver dissipation pole (average value) Ith	W W	7.9
Tightening torque for terminals	AC3	vv	3.8
rightening torque for terminals	min	Nm	4
	max	Nm	5
	min	lbft	2.95
	max	lbft	3.69
Tightening torque for coil terminal	Пах	1010	0.00
	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 s	ection		
	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 6052	29		IP20 front



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Ambient conditions

Amplent conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	5	min	°C	-60
		max	°C	80
Max altitude			m	3,000
Operating position				0,000
operaning peemer		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rai
Mounting				35mm
Weight			n	1
Operations			g	1
Mechanical life			Cycles	15,000,000
Electrical life			Cycles	1300000
			Cycles	1300000
Safety related data				Vee
	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 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			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	hier eh	min	%Us	85
		max	%Us	110
	drop-out	max	,	
		min	%Us	40
		max	%Us	55
	of 60Hz coil powered at 60Hz	IIIdX	/003	55
	-			
	pick-up		0/11-	80
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
10 dt 10		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

BFK8000A230

holding

VA

13

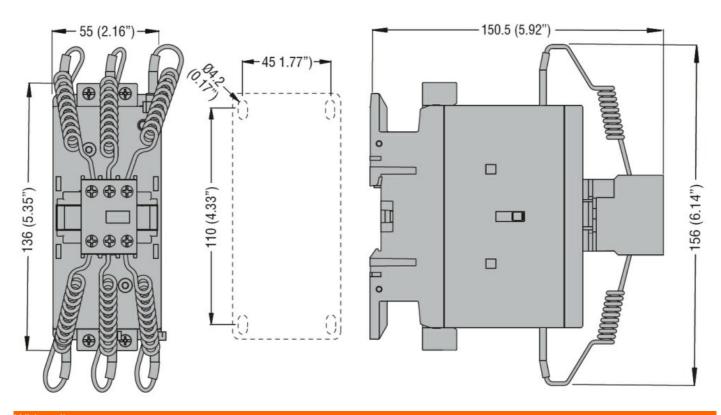


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	of 60Hz coil powe	ared at 60Hz			
			in-rush	VA	210
			holding	VA VA	15
Dissipation at holding	<20°C 50H-		Tiololing	W	5
Max cycles frequency				VV	5
Mechanical operations				Cycles/h	3 600
Operating times				Cycles/II	3,000
Average time for Us co	ontrol				
/werage time for 05 of	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO	max	ino	
		ere	min	ms	8
			max	ms	22
	in DC				<u> </u>
		Closing NO			
		ereen g	min	ms	40
			max	ms	85
		Opening NO			
		513 5	min	ms	20
			max	ms	55
UL technical data					
Full-load current (FLA)	for three-phase A	C motor			
	-		at 480V	А	77
			at 600V	А	77
Yielded mechanical pe	erformance				
	for three-phase A	C motor			
	·		at 200/208V	hp	25
			at 220/230V	hp	30
			at 460/480V	hp	60
			at 575/600V	hp	75
Contact rating of auxili	ary contacts accord	ing 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					



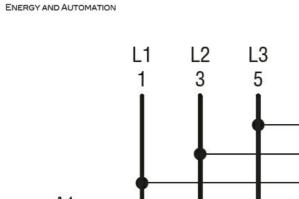
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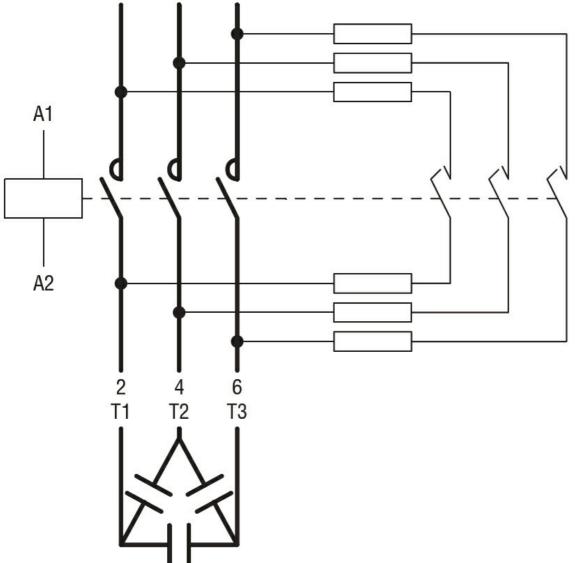


Wiring diagrams



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### Certifications and compliance

Certifications

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

BFK8000A230