

BFK8000A230

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 50KVAR, COIL 230VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK80
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	115
Rated operational power AC-6b (T≤40°C)			
· · · · · · · · · · · · · · · · · · ·	230V	kvar	30
	400V	kvar	50
	440480V	kvar	56
	690V	kvar	65
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
110100110111000	gG (IEC)	Α	125
Making capacity (RMS value)	go (iLo)	A	800
Breaking capacity (KWIO value)			000
breaking capacity at voltage	440V	٨	640
	500V	A	625
		A	
Decistance manufacture value)	690V	Α	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section	HICA		
Tioxible of windy contractor section	min	mm²	1.5
	111111	111111	1.0





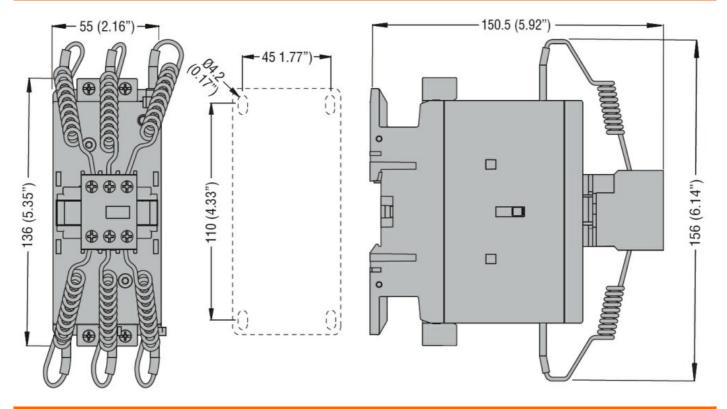
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		max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1090
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating	10 (00)			
Rated AC voltage at 5	ou/buHz		V	230
AC operating voltage	of FO/COLLE as it removed at FOLLE			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	max	7003	110
	Grop out	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	20
		max	%Us	55
AC average coil consi	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
	( 50/00LL	holding	VA	15
	of 50/60Hz coil powered at 60Hz		١/٨	105
		in-rush	VA VA	195 13
	of 60Hz coil powered at 60Hz	holding	VA	10
	or our iz con powered at our iz	in-rush	VA	210
		holding	VA VA	15
Dissipation at holding	≤20°C 50Hz	noiding	W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c	ontrol			
-	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			



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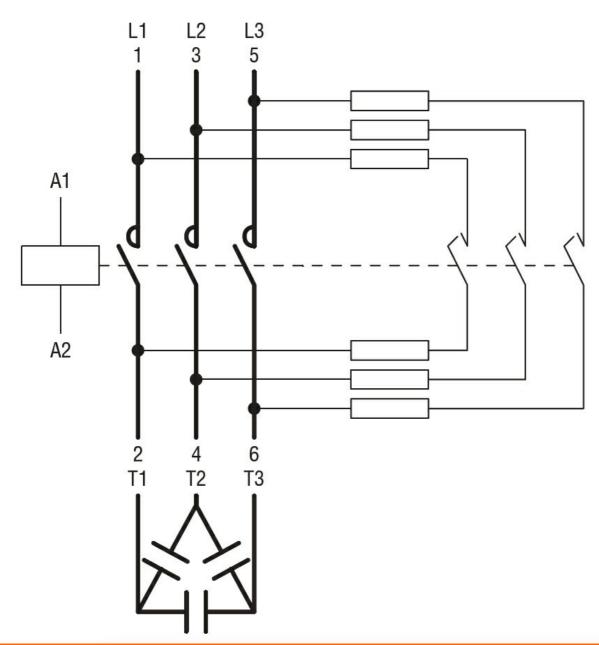
			min	ms	8	
			max	ms	22	
	in DC					
		Closing NO				
		ŭ	min	ms	40	
			max	ms	85	
		Opening NO	max	0	00	
		oponing i to	min	ms	20	
			max	ms	55	
UL technical data			IIIAX	1113	33	
	ogo AC (III.)			V	600	
Rated operational volta	age AC (UL)			V	600	
General USE						
	Contactor					
			AC current	Α	115	
Ambient conditions						
Temperature						
Temperature	Operating temperatur	re				
Temperature	Operating temperatur	re	min	°C	-50	
Temperature	Operating temperatur	re	min max		-50 70	
Temperature		re		°C °C	-50 70	
Temperature	Operating temperature  Storage temperature	re	max	°C	70	
Temperature		re	max min	°C	70 -60	
		re	max	°C °C	70 -60 80	
Max altitude	Storage temperature	re	max min	°C	70 -60	
Max altitude Resistance & Protection	Storage temperature	re	max min	°C °C	-60 80 3000	
Max altitude	Storage temperature	re	max min	°C °C	70 -60 80	



## Wiring diagrams



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## Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

ETIM classification

**ETIM 8.0** 

EC001079 -Capacitor contactor