

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 50KVAR, 400VAC 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		
Operational current AC3 (≤440V ≤55°C)	Α	80
Operational current AC4 (400V)	A	38
Short-time allowable current for 10s (IEC/EN60947-1)	Α	640
Protection fuse		
gG (IEC)	Α	125
aM (IEC)	A	80
Making capacity (RMS value)	Α	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 max	lbft	3.69
Tightening torque for coil terminal	Al.	0.0
min	Nm	0.8
max	Nm	1
min	lbft lbft	0.59
max number of wires simultaneously connectable	Ibft	0.74
max number of wires simultaneously connectable Conductor section	nr.	2
AWG min		18
		2
Flexible w/o lug conductor section		
riexible w/o lug conductor section min	mm²	1.5
max	mm²	35
Power terminal protection according to IEC/EN 60529	011101	IP20 front
i ower terminal protection according to IEO/EN 00323		n- 20 HOHL



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Ambient conditions				
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
Veight			g	1
Operations				
Mechanical life			Cycles	15,000,000
Electrical life			Cycles	1300000
Safety related data				
Mirror contats according	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			
		min	%Us	85
		max	%Us	110
	drop-out		0/!!	40
		min	%Us	40
	of college in an experience of	max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	90
		min	%Us	80
	drap out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us %Us	55
AC operating voltage		IIIdX	/005	00
to operating voltage	of 50/60Hz coil powered at 50Hz			
	or solouriz con powered at sunz	in-rush	VA	210
		in-rush holding	VA VA	15
	of 50/60Hz coil powered at 60Hz	Holding	٧٨	10
	or solver iz con powered at ounz	in-rush	VA	195
		holding	VA VA	195
		Holding	٧٨	10

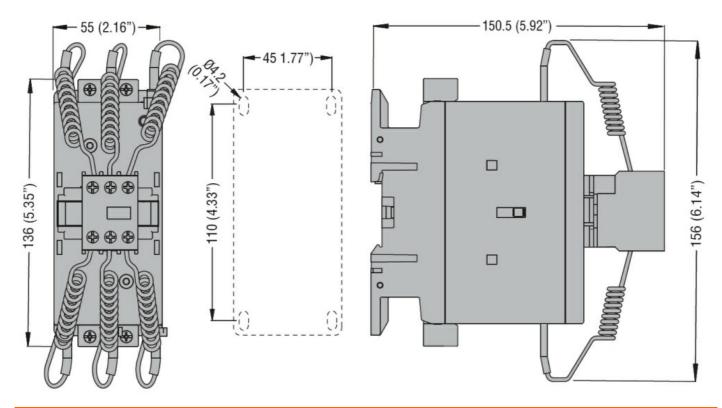




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	of 60Hz coil powered a	it 60Hz) /A	040
			in-rush	VA	210
D: : :: (1 11: 4	40000 FOLL		holding	VA	15
Dissipation at holding ≤	20°C 50Hz			W	5
Max cycles frequency				0	0.000
Mechanical operations				Cycles/h	3,600
Operating times	ntual				
Average time for Us co					
	in AC	Closing NO			
		Closing NO	min	mo	10
				ms ms	12 21
		Opening NO	max	1115	21
		Opening NO	min	ms	8
			max	ms	22
	in DC		Παλ	1113	
	111 00	Closing NO			
		Closing 140	min	ms	40
			max	ms	85
		Opening NO	max	1110	00
		Opening 110	min	ms	20
			max	ms	55
UL technical data			,,,,,,,,		
	for three-phase AC mot	or			
,	·		at 480V	Α	77
			at 600V	Α	77
Yielded mechanical per	rformance				-
'	for three-phase AC mo	otor			
	•		at 200/208V	hp	25
			at 220/230V	hp	30
			at 460/480V	hp	60
			at 575/600V	hp	75
Contact rating of auxilia	ry contacts according to	UL		•	SI - A600
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contacts				
	-		AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Dimensions					

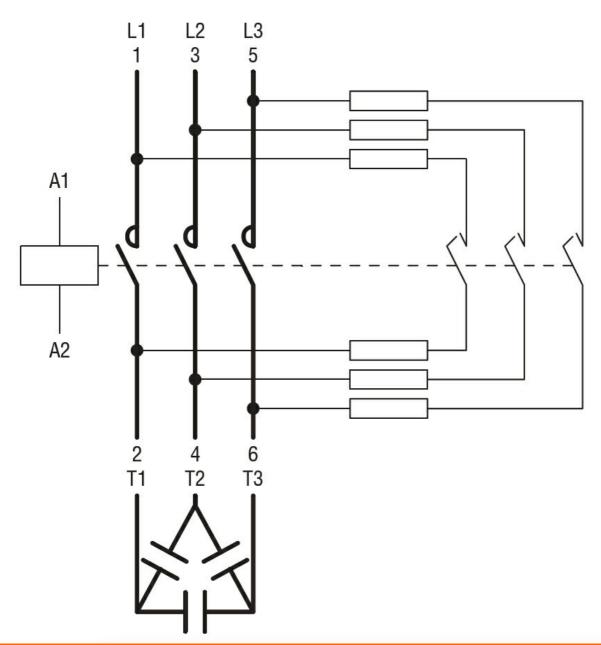
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Wiring diagrams

BFK8000A400

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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