

**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR, COIL 575VAC 60HZ

Product designation				Power contactor
Product type designat				BFK50
Contact characteristic	S			
Number of poles	111150/511		Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	8
Operational frequency	1			
		min	Hz	25
<del></del>		max	Hz	400
	air thermal current Ith		Α	90
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	22
		400V	kvar	40
		440480V	kvar	41
		690V	kvar	46
	current for 10s (IEC/EN60947-1)		Α	400
Protection fuse				
-		gG (IEC)	Α	80
Making capacity (RMS	•		Α	500
Breaking capacity at v	oltage			
		440V	Α	400
		500V	Α	352
		690V	Α	312
Resistance per pole (a	average value)		mΩ	0.8
Power dissipation per	pole (average value)			
		Ith	W	6.5
Tightening torque for t	rerminals			_
		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	Prodotti finiti
		max	lbin	Prodotti finiti
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	<u> </u>			
	Flexible w/o lug conductor section			
	•	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	-	min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	1090
Operations				



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Machaniaallifa					45000000
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data	0       ( EN	//00 40 400 4			
Performance level B1	od according to EN	/ISO 13489-1			10000
			rated load	cycles	400000
EN 10 (11 11)			mechanical load	cycles	15000000
EMC compatibility		Yes			
Rated AC voltage at 6	0Hz			V	575
AC coil operating					
AC operating voltage					
	of 60Hz coil power				
		pick-up		0/11	
			min	%Us	80
			max	%Us	110
		drop-out		0/11	
			min	%Us	20
			max	%Us	55
AC average coil consu					
	of 50/60Hz coil po	owered at 50Hz			
			in-rush	VA	210
			holding	VA	15
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	195
			holding	VA	13
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding			-	W	5
Max cycles frequency					
Max cycles frequency Mechanical operation				W cycles/h	
Max cycles frequency Mechanical operation Operating times					
Max cycles frequency Mechanical operation					
Max cycles frequency Mechanical operation Operating times					
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO			
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO	min		3600
Max cycles frequency Mechanical operation Operating times	ontrol	-	min max	cycles/h	3600
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO Opening NO		cycles/h	3600 12 28
Max cycles frequency Mechanical operation Operating times	ontrol	-		cycles/h	3600 12 28 8
Max cycles frequency Mechanical operation Operating times	ontrol in AC	-	max	cycles/h ms ms	3600 12 28
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	max min	cycles/h  ms ms ms	3600 12 28 8
Max cycles frequency Mechanical operation Operating times	ontrol in AC	-	max min max	cycles/h  ms ms ms	3600 12 28 8 22
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO	max min	cycles/h  ms ms ms	3600 12 28 8 22
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO  Closing NO	max min max	ms ms ms ms	3600 12 28 8 22
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO	max min max min	ms ms ms ms	3600 12 28 8 22 40 85
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO  Closing NO	max min max min	ms ms ms ms	3600 12 28 8 22 40 85 20
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC	Opening NO  Closing NO	max min max min max	ms ms ms ms	3600 12 28 8 22 40 85
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms ms ms	3600 12 28 8 22 40 85 20
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms ms ms	3600 12 28 8 22 40 85 20
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms ms ms	3600 12 28 8 22 40 85 20
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms ms ms	3600 12 28 8 22 40 85 20
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC	Opening NO  Closing NO	max min max min max min max	ms ms ms ms ms	3600 12 28 8 22 40 85 20 55
Max cycles frequency Mechanical operation Operating times Average time for Us c  UL technical data General USE	ontrol in AC	Opening NO  Closing NO	max min max min max min max	ms ms ms ms ms	3600 12 28 8 22 40 85 20 55
Max cycles frequency Mechanical operation Operating times Average time for Us c  UL technical data General USE  Ambient conditions	ontrol in AC	Opening NO  Closing NO  Opening NO	max min max min max min max	ms ms ms ms ms	3600 12 28 8 22 40 85 20 55
Max cycles frequency Mechanical operation Operating times Average time for Us c  UL technical data General USE  Ambient conditions	ontrol in AC  in DC  Contactor	Opening NO  Closing NO  Opening NO	max min max min max min max	ms ms ms ms ms	3600 12 28 8 22 40 85 20 55





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		max	°C	70
	Storage temperature			
	3 ,	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				
Wiring diagrams				
Certifications and com	pliance			
Compliance				
	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			
Certificates				
	CCC			
	cULus			
ETIM classification				
				EC001079 -
ETIM 8.0				Capacitor
				contactor