

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 110VAC 50/60HZ



				_
Product designation				Power contactor
Product type designation				BFK09
Contact characteristic	S		Nla	3
Number of poles			Nr. V	<u> </u>
Rated insulation volta	-		kV	
Rated impulse withsta			ĸv	6
Operational frequency	y .			05
		min	Hz	25
IFC Conventional free	e air thermal current Ith	max	Hz	400
			A	25
Rated operational pov	Wer AC-6D $(1 \leq 40^{\circ}C)$	0001/		4 5
		230V	kvar	4.5
		400V	kvar	7.5
		440480V	kvar	9
Oh erst time e alleurable		690V	kvar	10
	current for 10s (IEC/EN60947-1)		A	150
Protection fuse				10
		gG (IEC)	<u>A</u>	16
Making capacity (RMS	-		Α	90
Breaking capacity at v	voltage	( ( 0) (		
		440V	A	72
		500V	A	72
		690V	<u>A</u>	71
Resistance per pole (			mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	1.6
Tightening torque for	terminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section		~	
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section		-	
		min	mm²	1

10 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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		max	mm²	4
	Flexible with insulated spade lug conductor	or section		
		min	mm²	1
		max	mm²	4
	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30° Screw / DIN rai
Fixing				35mm
Weight			g	416
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des				A600 - P600
Operating current AC1	C	0001/	^	2
		230V 400V	A A	3 1.9
		400V 500V	A	1.4
Operating current DC1	2	5007	Α	1.4
	2	110V	А	5.7
Operating current DC1	3			
		24V	А	5.7
		48V	А	2.9
		60V	A	2.3
		110V	Α	1.25
		125V	A	1.1
		220V	A	0.6
Operations		600V	A	0.1
Mechanical life			cycles	20000000
Electrical life			cycles	400000
Safety related data			eyelee	100000
	0d according to EN/ISO 13489-1			
	- -	rated load	cycles	400000
		mechanical load	cycles	2000000
Mirror contats accordir	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	<b>m</b> in	%Us	80
		min max	%Us %Us	80 110
	drop-out	mdX	/005	110
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz		-	
	pick-up			

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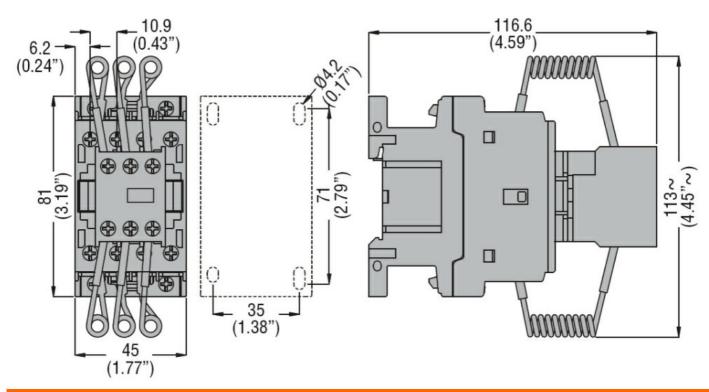
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		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	numerice at 20°C	Шал	/003	55
AC average con cons	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	Ŭ		
		in-rush	VA	75
		holding	VA	9
Disaination at halding		noiuing		
Dissipation at holding	·		W	2.5
Max cycles frequenc				
Mechanical operation	N		cycles/h	3600
Operating times				
Average time for Us	control			
2	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
UL technical data				
General USE				
	Contactor			
	Contactor	AC ourrent	٨	25
	Auguliant contacts	AC current	A	25
	Auxiliary contacts	•••	.,	
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Contact rating of aux	iliary contacts according to UL			A600 - P600
Ambient conditions	· · · · · · · · · · · · · · · · · · ·			
Temperature				
. omporataro	Operating temperature			
			° <b>^</b>	50
		min	°C °°	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Dimensions				
Dimensions				

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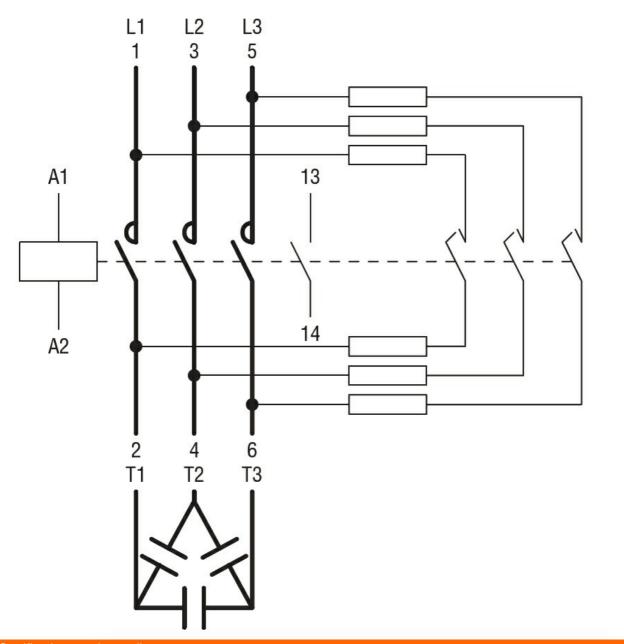


Wiring diagrams



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## Certifications and compliance

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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

contactor