## ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 120VAC 60HZ



BFK0910A12060

Product designation			Power contactor
Product type designation			BFK09
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	25
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	4.5
	400V	kvar	7.5
	440480V	kvar	9
	690V	kvar	10
Short-time allowable current for 10s (IEC/EN60947-1)		А	150
Protection fuse			
	gG (IEC)	А	16
Making capacity (RMS value)		А	90
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	А	71
Resistance per pole (average value)		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	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires 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			

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		max	mm²	4
	Flexible with insulated spade lug conducto	or section		
		min	mm²	1
		max	mm²	4
Power terminal protect	tion according to IEC/EN 60529			IP20 when
· · · ·				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
			-	35mm
Weight			g	416
Conductor section				
	AWG/kcmil conductor section			10
	otovistico	max		10
Auxiliary contact chara Thermal current Ith			A	10
	ignation		А	A600 - P600
IEC/EN 60947-5-1 des Operating current AC1				A000 - P600
Operating current AC1	3	230V	۸	2
		230V 400V	A	3 1.9
		400V 500V	A A	1.9
Operating current DC1	2	500 v	A	1.4
Operating current DC1	2	110V	А	5.7
Operating current DC1	2	1100	A	5.7
	5	24V	А	5.7
		24 V 48 V	A	2.9
		48 V 60 V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.6
		600V	A	0.1
Operations		0001	7.	0.1
Mechanical life			cycles	20000000
Electrical life			cycles	400000
Safety related data			eyelee	100000
	Dd according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	20000000
Mirror contats accordir	ng to IEC/EN 609474-4-1		.,	YES
EMC compatibility				yes
AC coil operating				,
	)Hz		V	120
Rated AC voltage at 60				-
Rated AC voltage at 60 AC operating voltage				
AC operating voltage at 60	of 60Hz coil powered at 60Hz			
	of 60Hz coil powered at 60Hz pick-up			
	of 60Hz coil powered at 60Hz pick-up	min	%Us	80
	-	min max	%Us %Us	80 110
	pick-up		%Us %Us	80 110
	-			

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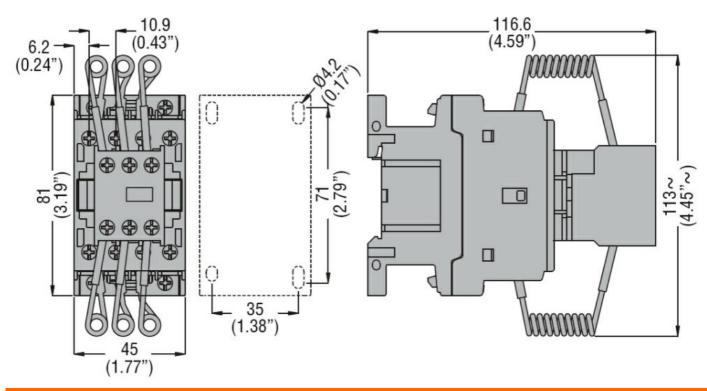
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of 60Hz coil powered at 60Hz			
	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz	· · · ·	W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
-	min	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			
	AC current	А	25
Auxiliary contacts			
	AC voltage	V	600
	AC current	А	10
	DC voltage	V	250
	DC current	А	1
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
<b>č</b> .	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			
r olidion degree			3

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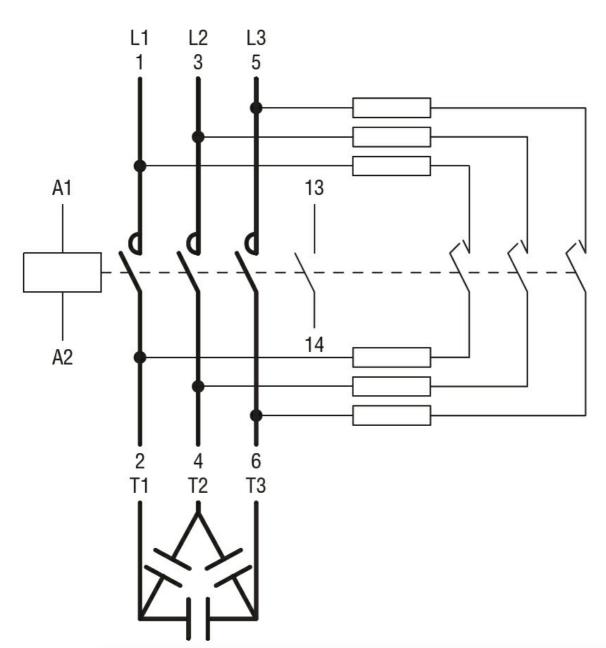


Wiring diagrams

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## Certifications and compliance

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Comp	nance
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	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