

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 12.5KVAR, COIL 110VAC 50/60HZ



**BFK1210A110** 

Product designation				Power contactor
Product type designat	tion			BFK12
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation volta	ge Ui IEC/EN		V	690
Rated impulse withsta	and voltage Uimp		kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		А	28
Rated operational pov	wer AC-6b (T≤40°C)			
		230V	kvar	7
		400V	kvar	12.5
		440480V	kvar	14
		690V	kvar	16
	current for 10s (IEC/EN60947-1)		Α	150
Protection fuse				
		gG (IEC)	Α	25
Making capacity (RMS	S value)		Α	120
Breaking capacity at v	voltage			
		440V	А	96
		500V	А	96
		690V	Α	94
Resistance per pole (	average value)	mΩ 2		2.5
Power dissipation per	pole (average value)			
		lth	W	2
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

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		max	mm²	4
	Flexible with insulated spade lug conductor	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 allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	415
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	10
EC/EN 60947-5-1 des	-			A600 - P600
Operating current AC1	5			0
		230V	A	3
		400V 500V	A A	1.9 1.4
Operating current DC1	2	500 v	A	1.4
	۷	110V	А	5.7
Operating current DC1	3			
		24V	Α	5.7
		48V	A	2.9
		60V	A	2.3
		110V	A	1.25
		125V 220V	A A	1.1 0.6
		600V	A	0.1
Operations		000 V	Α	0.1
Mechanical life			cycles	20000000
Electrical life			cycles	400000
Safety related data				
	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				
Rated AC voltage at 50	0/60Hz		V	110
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			

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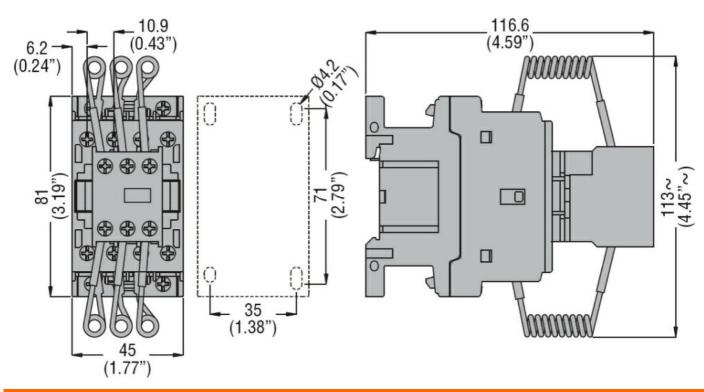
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	sumption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	noiding	•/ (	0
		in-rush	VA	70
			VA VA	6.5
		holding	VA	0.0
	of 60Hz coil powered at 60Hz	· · · · · ·	1/4	75
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequenc				
Mechanical operation	)		cycles/h	3600
Operating times				
Average time for Us	control			
-	in AC			
	Closing NO			
	e.com.g e	min	ms	8
		max	ms	24
	Opening NO	Шах	1113	<b>_</b> T
		min	ms	10
				20
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
UL technical data				
General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			
	-	AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	Å	1
Contact rating of aux	iliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature	Operating temperature			
	Operating temperature		• •	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				

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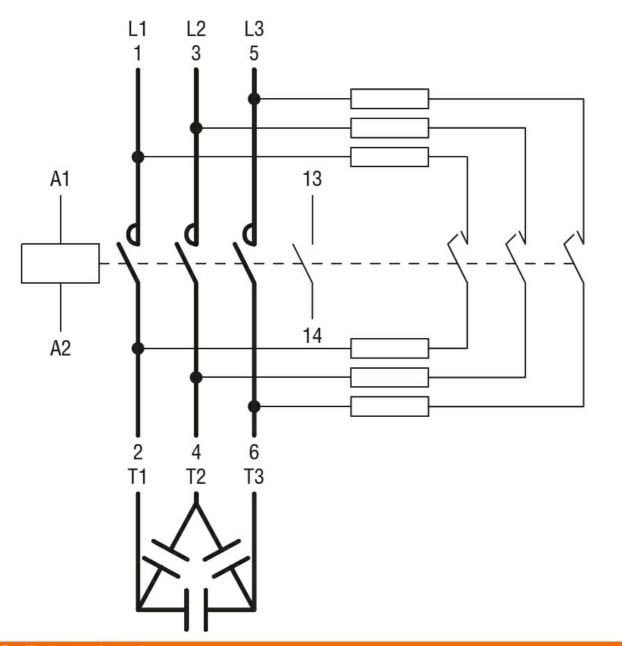
Wiring diagrams

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## Certifications and compliance

Comp	liance
Comp	nance

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