

**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 12.5KVAR,

**COIL 230VAC 50/60HZ** 



Product designation				Power contactor
Product type designat				BFK12
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage	-		V	690
Rated impulse withsta			kV	6
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free air thermal current Ith			Α	28
Rated operational power AC-6b (T=40°C)				
		230V	kvar	7
		400V	kvar	12.5
		440480V	kvar	14
		690V	kvar	16
Short-time allowable	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	roltage			
		440V	Α	96
		500V	Α	96
		690V	Α	94
Resistance per pole (a	average value)		m?	2.5
Power dissipation per pole (average value)				_
		Ith	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	lbin	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			
		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 protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	418
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			1.0
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	0001		
	230V	A	3
	400V	A	1.9
On existing accurant DC42	500V	Α	1.4
Operating current DC12	110V	Α	5.7
Operating current DC13	1100		5.1
Operating current DO 10	24V	Α	5.7
	48V	A	2.9
	60V	A	2.3
	110V	Α	1.25
	125V	Α	1.1
	220V	Α	0.6
	600V	Α	0.1
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	400000
	chanical load	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	230
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up	min	%Us	80
	min	%Us %Us	110
drop-out	max	/0US	110
uiop-out	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz	παλ	,,,,,	
pick-up			
Prov. op			



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric including limiting resistors, maximum iec operational power 400V = 12.5KVAR,

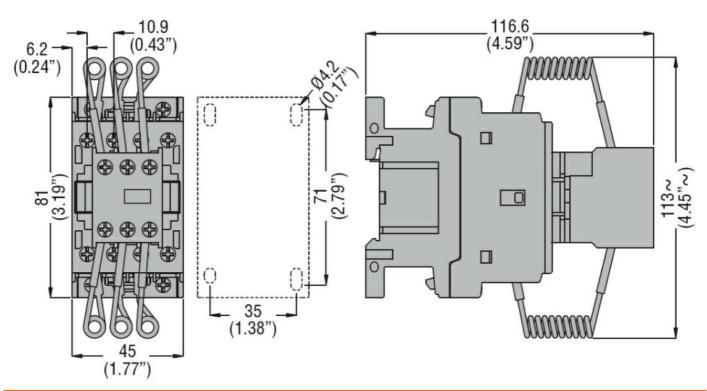
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COIL 230VAC 50/60HZ

		min	%Us	85
		max	%Us	110
	drop-out		0/11	0.0
		min	%Us	20
10		max	%Us	55
AC average coil consu	·			
	of 50/60Hz coil powered at 50Hz	in-rush	VA	75
		holding	VA VA	9
	of 50/60Hz coil powered at 60Hz	Holding	VA	9
	or 30/00/12 con powered at 00/12	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	noianig_	***	
	0. 00. 12 00 poo 04 00. 12	in-rush	VA	75
		holding	VA	9
Dissipation at holding	=20°C 50Hz	<u></u>	W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of	ontrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
III ta desiral data		max	ms	28
UL technical data General USE				
General USE	Contactor			
	Contactor	AC current	Α	28
	Auxiliary contacts	AC current	^	20
	Auxiliary corracts	AC voltage	V	600
		AC voltage AC current	A	10
		DC voltage	V	250
		DC current	Å	1
Contact rating of auxili	ary contacts according to UL	2 233		A600 - P600
Ambient conditions				
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				

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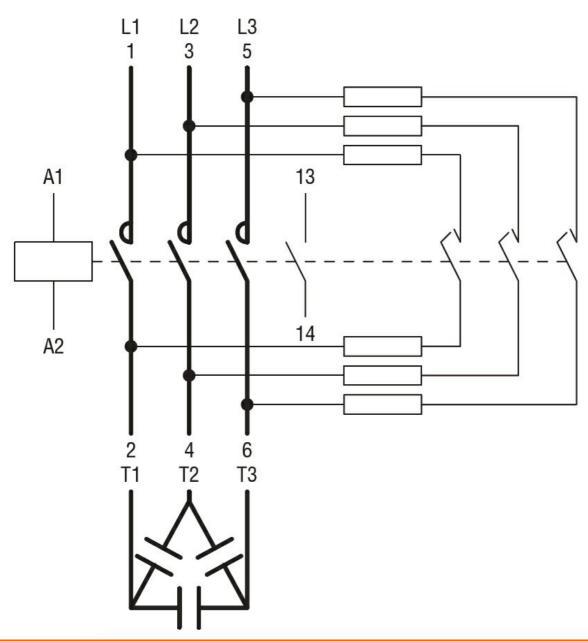
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Wiring diagrams

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## Certifications and compliance

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

EAC

ETIM classification

**ETIM 8.0** 

EC001079 -Capacitor contactor