

**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric including limiting resistors, maximum iec operational power 400V = 12.5KVAR, COIL 460VAC 60HZ



Product designation			Power contactor
Product type designation			BFK12
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		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 value)	<b>5</b> ( )	Α	120
Breaking capacity at voltage			
	440V	Α	96
	500V	Α	96
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
, , ,	Ith	W	2
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			
	min	mm²	1



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	max	mm²	4
Flexible with insulated spade lug conductor section			
	min max	mm² mm²	1 4
Power terminal protection 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	428
Conductor section			
AWG/kcmil conductor section			
A. w. illians a contact at all any atomictics	max		10
Auxiliary contact characteristics  Thermal current Ith		A	10
IEC/EN 60947-5-1 designation		A	A600 - P600
Operating current AC15			A000 - F000
Operating current AC13	230V	Α	3
	400V	A	1.9
	500V	Α	1.4
Operating current DC12			
	110V	Α	5.7
Operating current DC13			
	24V	Α	5.7
	48V	Α	2.9
	60V	Α	2.3
	110V	Α	1.25
	125V	A	1.1
	220V	A	0.6
Operations	600V	Α	0.1
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data		oy oldo	100000
Performance level B10d according to EN/ISO 13489-1			
Ŭ	rated load	cycles	400000
n	nechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz		V	460
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up	min	0/11~	90
	min	%Us %Us	80 110
drop-out	max	/005	110
urop-out	min	%Us	20
	max	%Us	55



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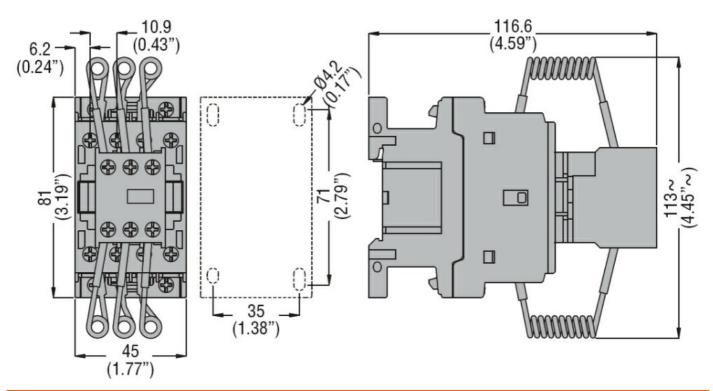
of 60Hz coil powered at 60Hz

	or ouriz con powered a	11 00112			
			in-rush	VA	75
			holding	VA	9
Dissipation at holding			3	W	2.5
	-20 O 301 IZ			V V	2.0
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
<b>G</b>	in AC				
	, 10	Closing NO			
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Clasina NC	IIIAX	1113	20
		Closing NC	_		
			min	ms	14
			max	ms	28
UL technical data					
General USE					
	Contactor				
	Contactor		A C	٨	00
			AC current	Α	28
	Auxiliary contacts				
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Å	1
0 ( ) ( )		1.11	DC current	A	
	ary contacts according to	UL			A600 - P600
Ambient conditions					
Temperature					
•	Operating temperature	<b>!</b>			
	operating temperature		min	°C	-50
				°C	
			max	C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	n			111	
	VII				
Pollution degree					3
Dimensions					



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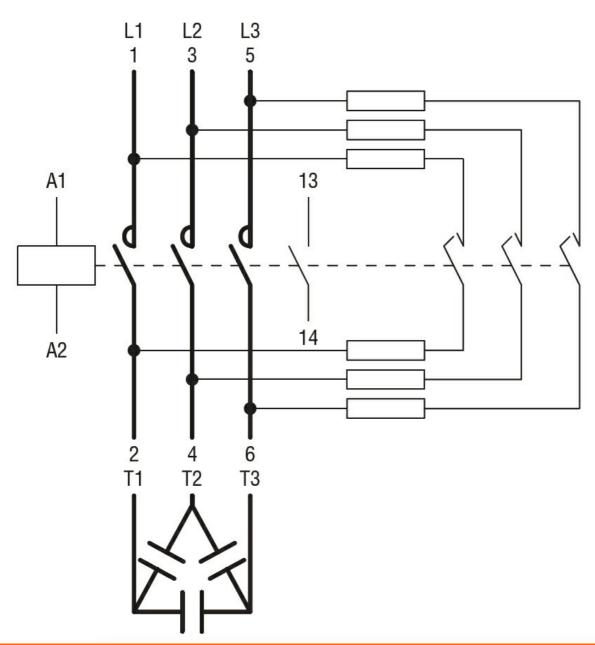


Wiring diagrams



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## Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

**ETIM 8.0** 

EC001079 -Capacitor contactor