

**ENERGY AND AUTOMATION** 



Product designation			Power contacto
Product type designation			BFK12
Contact characteristics		NI.	•
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			0.5
	min	Hz	25
1500 (1)	max	Hz	400
IEC Conventional free air thermal current Ith		Α	28
Rated operational power AC-6b (T≤40°C)	2221		_
	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)		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			<del>-</del>
AWG/Kcmil			
7.11. G/1.0/11	max		10
Flexible w/o lug conductor section	max		
Tioxibio W/o lug conductor section	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section	Шах	111111	
i lexible G/W lug colludotol section	min	mm²	1
	HIII	111111	1



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	max	mm²	4
Flexible with insulated spade lug conductor sec	ction		
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	418
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
0 11 12010	500V	A	1.4
Operating current DC12	440)/	•	<i>-</i>
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	110V	Α	5.7
Operating current DC13	0.41/	Δ.	
	24V	A	5.7
	48V 60V	A A	2.9 2.3
	110V	A	2.3 1.25
	125V	A	1.1
	220V	A	0.6
	600V	A	0.1
Operations	0001	,,	0.1
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
•	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	24
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
(F0/0011 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			



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

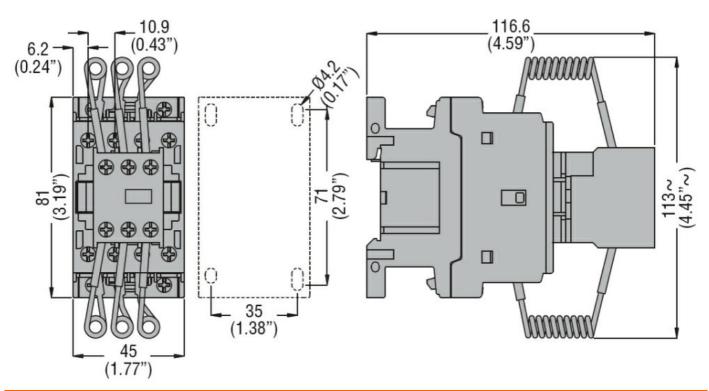
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BFK1210A024

COIL 24VAC 50/60HZ

		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	·			
	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	•	١./٨	75
		in-rush	VA	75
B: : : : : : : : : : : : : : : : : : :	10000 5011	holding	VA	9
Dissipation at holding	\$20°C 50Hz		W	2.5
Max cycles frequency			1 //	0000
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			•
		min	ms	8
	0 : NO	max	ms	24
	Opening NO			40
		min	ms	10
	Clasing NC	max	ms	20
	Closing NC	min	<b></b>	1.1
		min	ms	14 28
UL technical data		max	ms	20
General USE				
General USE	Contactor			
	Contactor	AC current	Α	28
	Auviliant contacts	AC current	A	20
	Auxiliary contacts	A C valta ==	V	600
		AC voltage AC current		10
		DC voltage	A V	250
		DC voltage DC current	V A	1
Contact rating of auxilia	ary contacts according to UL	DO Guileill		A600 - P600
Ambient conditions				7,000 - 1 000
Temperature				
romporaturo	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIax		7.0
	Otorago temperature	min	°C	-60
			°C	80
Max altitude		max		3000
Resistance & Protection	nn		m	3000
				3
Pollution degree Dimensions				J
Difficiations —				

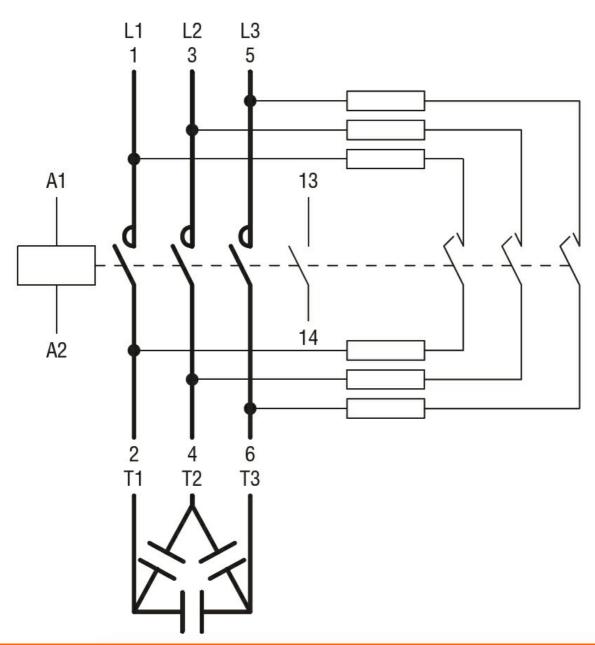
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Wiring diagrams



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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