

ENERGY AND AUTOMATION



Product designation			Power contactor
Product type designation			BFK12
Contact characteristics		NIn	2
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)		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)			
, , ,	lth	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	max	10111	
Tighterining torque for contentinal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	IIIdx	Nr.	2
Conductor section		1 111.	
AWG/Kcmil			
AWG/RUIII	max		10
Elevible w/s lug conductor costica	max		10
Flexible w/o lug conductor section	mai:m	mm²	1
	min	mm²	1
Florible of the contract of the	max	mm²	6
Flexible c/w lug conductor section			4
	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		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	418
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics		^	40
Thermal current lth		A	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	230V	Α	3
	400V	A	3 1.9
	500V	A	1.4
Operating current DC12	0001		
	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 oloo	100000
Performance level B10d according to EN/ISO 13489-1			
C	rated load	cycles	400000
med	chanical 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	230
AC operating voltage			
of 50/60Hz coil powered at 50Hz pick-up			
ριοκ-αρ	min	%Us	80
	max	%Us	110
drop-out			- -
I	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			



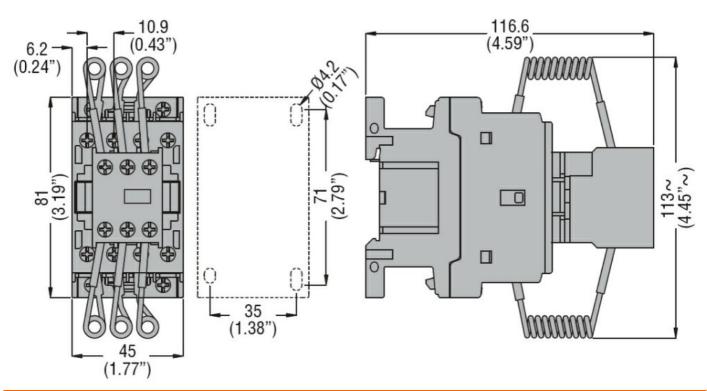
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BFK1210A230

COIL 230VAC 50/60HZ

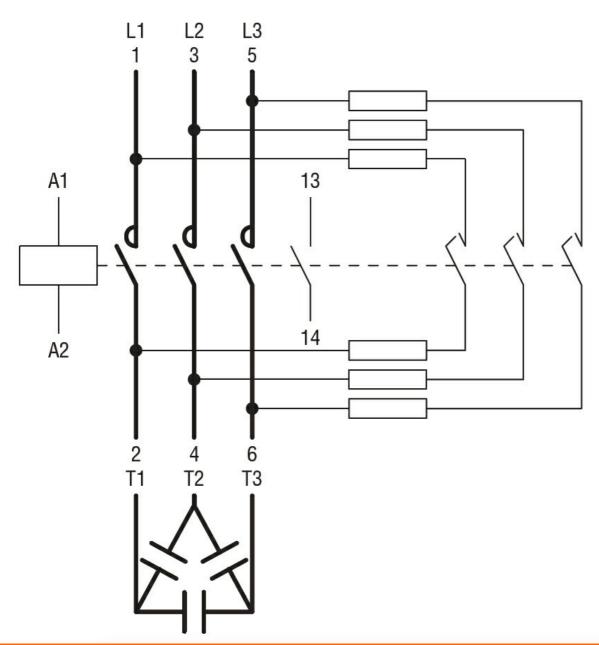
min	%Us	85
max	%Us	110
drop-out		
min	%Us	20
max	%Us	55
AC average coil consumption at 20°C		
of 50/60Hz coil powered at 50Hz		
in-rush	VA	75
holding	VA	9
of 50/60Hz coil powered at 60Hz	١./٨	70
in-rush	VA	70
holding	VA	6.5
of 60Hz coil powered at 60Hz	١/٨	75
in-rush	VA VA	75 9
holding Dissipation at holding <20°C 50Hz	W	2.5
Dissipation at holding ≤20°C 50Hz Max cycles frequency	VV	2.5
Mechanical operation	cycles/h	3600
Operating times	Cycles/II	3000
Average time for Us control		
in AC		
Closing NO		
min	ms	8
max	ms	24
Opening NO	1110	4
min	ms	10
max	ms	20
Closing NC		
min	ms	14
max	ms	28
UL technical data		
General USE		
Contactor		
AC current	Α	28
Auxiliary contacts		
AC voltage	V	600
AC current	Α	10
DC voltage	V	250
DC current	Α	1
Contact rating of auxiliary contacts according to UL		A600 - P600
Ambient conditions		
Temperature		
Operating temperature		
min	°C	-50
max	°C	70
Storage temperature	^ -	
min min	°C	-60
max	°C	80
Max altitude	m	3000
Resistance & Protection		
Pollution degree		3
Dimensions [mm (in)]		

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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