

ENERGY AND AUTOMATION

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



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		141.	
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 lu			
	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	428
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		A	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	Α	3
	400V	A	1.9
0 1	500V	A	1.4
Operating current DC12	440)/	۸	F 7
0	110V	A	5.7
Operating current DC13	241/	۸	F 7
	24V 48V	A A	5.7
	60V	A	2.9 2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.6
	600V	A	0.1
Operations	3337	,,	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	400
AC operating voltage			
of 50/60Hz coil powered at 50H			
pick-up			
	min	%Us	80
	max	%Us	110
drop-o			
	min	%Us	20
(50/0011 "	max	%Us	55
of 50/60Hz coil powered at 60H			
pick-up)		



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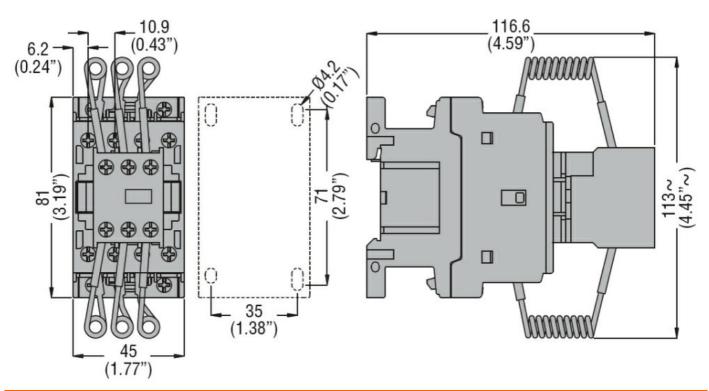
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COIL 400VAC 50/60HZ

		min	%Us	85
		max	%Us	110
	drop-out		0/11	
		min	%Us	20
10	1,0000	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	V/\	9
	of 30/00112 coll powered at 00112	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	110101119	***	0.0
	o. co co poc. a. co	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 co	ntrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
	01 : NO	max	ms	20
	Closing NC			4.4
		min	ms	14
UL technical data		max	ms	28
General USE				
Ocheral OOL	Contactor			
	Contactor	AC current	Α	28
	Auxiliary contacts	710 04110111		
	,	AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
		DC current	Α	1
Contact rating of auxilia	ry contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
- 1/2 · 1		max	°C	80
Max altitude			m	3000
Resistance & Protectio	n –			
Pollution degree				3
Dimensions				

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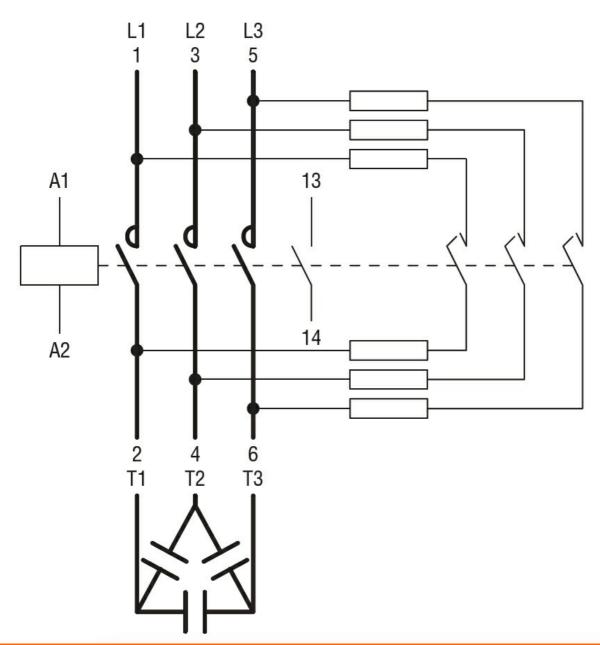
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Wiring diagrams

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Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/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