

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 60HZ



Product designation				Power contactor
Product type designati				BFK12
Contact characteristics				-
Number of poles			Nr.	3
Rated insulation voltag			V	690
Rated impulse withstar	•		kV	6
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	28
Rated operational pow	ver AC-6b (T≤40°C)			
	,	230V	kvar	7
		400V	kvar	12.5
		440480V	kvar	14
		690V	kvar	16
Short-time allowable c	urrent for 10s (IEC/EN60947-1)		A	150
Protection fuse	<u> </u>		- , ,	
1 Totodion rasc		gG (IEC)	Α	25
Making capacity (RMS	value)	gG (ILC)		120
			A	120
Breaking capacity at vo	onage	440\/	۸	00
		440V	A	96
		500V	A	96
		690V	A	94
Resistance per pole (a			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	lbin	1.1
		max	lbin	1.5
Tightening torque for c	coil terminal			
J J ,		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
Max number of wires s	simultaneously connectable	max	Nr.	2
Conductor section	minate in the second contributable		. 11.	
CONTRACTOR SCOTION	AWG/Kcmil			
	AWO/Noriii	may		10
	Florible w/e lug conductor costion	max		10
	Flexible w/o lug conductor section		m2	4
		min	mm²	1
	Elegation (Charles and Charles	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	418
Conductor section			
AWG/kcmil conductor section			4.0
Auxiliary contact characteristics	max		10
Auxiliary contact characteristics Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation		/ \	A600 - P600
Operating current AC15			1.000
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12			
	110V	Α	5.7
Operating current DC13	0.41/	۸	F 7
	24V 48V	A A	5.7 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 Safety related data		cycles	400000
Performance level B10d according to EN/ISO 13489-1			
Tonomianos isvoi Broa assoraing to Ervice To les T	rated load	cycles	400000
m	echanical 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	230
AC operating voltage			
of 60Hz coil powered at 60Hz pick-up			
рюк-ир	min	%Us	80
	max	%Us	110
drop-out			-
urop-out			
drop-out	min	%Us	20



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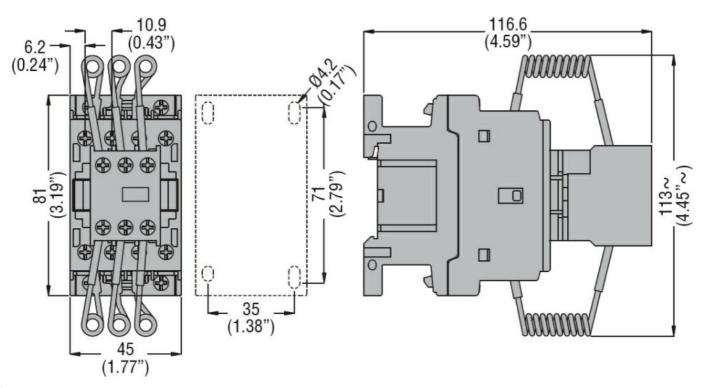
of 60Hz coil powered at 60Hz

	·		in-rush	VA	75
			holding	VA	9
Dissipation at holding ≤20°C 50Hz				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
			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
	ry contacts according to	UL			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 & Protectio	n				
Pollution degree					3
Dimensions					



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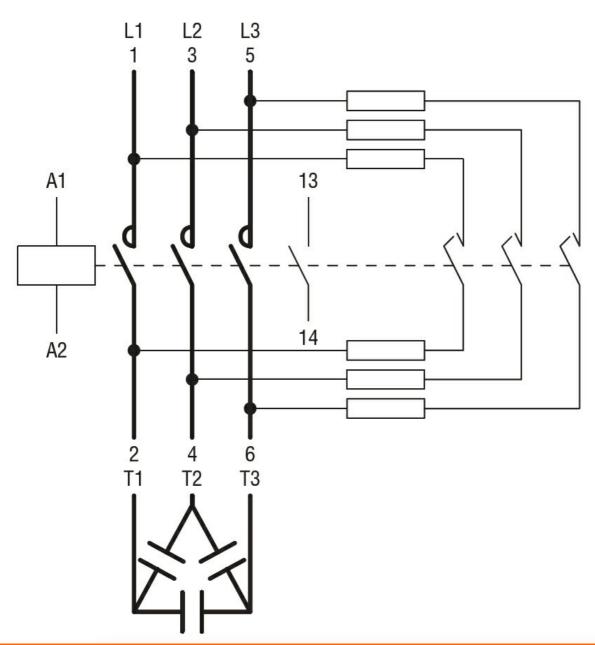


Wiring diagrams



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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