



Product designation			Power contactor
Product type designation			BFK09
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	25
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	4.5
	400V	kvar	7.5
	440480V	kvar	9
	690V	kvar	10
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	16
Making capacity (RMS value)		Α	90
Breaking capacity at voltage			_
	440V	Α	72
	500V	Α	72
	690V	Α	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			_
	Ith	W	1.6
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	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





	max	mm²	4
Flexible with insulated spade lug conductor section			
	min	mm²	1
	max	mm²	4 ID20 whom
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30° Screw / DIN rail
Fixing			35mm
Weight		g	416
Conductor section			
AWG/kcmil conductor section			4.0
Auxiliany contact characteristics	max		10
Auxiliary contact characteristics Thermal current Ith		А	10
IEC/EN 60947-5-1 designation		А	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	A	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 0100	100000
Performance level B10d according to EN/ISO 13489-1			
S	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 60Hz		V	460
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up		0/17	0.0
	min	%Us	80
drop out	max	%Us	110
drop-out	min	%Us	20
	max	%Us	55





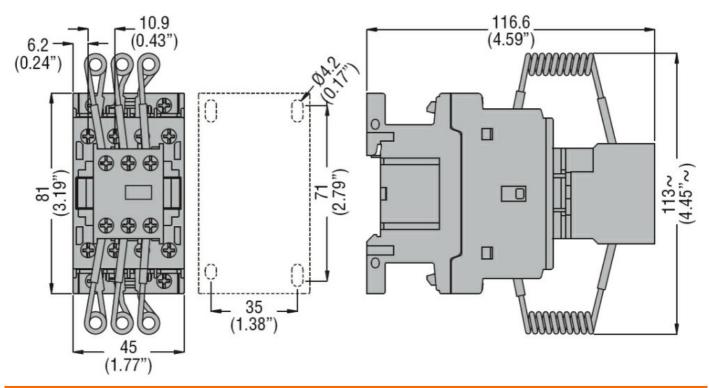
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 460VAC 60HZ

of 60Hz coil powered at 60Hz

	or our iz con powered a	11 001 12			
			in-rush	VA	75
			holding	VA	9
Dissipation at holding ≤	20°C 50Hz			W	2.5
Max cycles frequency	20 0 00112			•••	2.0
				a a l a a /la	2000
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	max		
		Opening NO	min	m 0	10
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
UL technical data					
General USE					
30.70.0	Contactor				
	Contactor		AC current	۸	25
	• "		AC current	Α	25
	Auxiliary contacts				
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Contact rating of auxilia	ry contacts according to	UL			A600 - P600
Ambient conditions	,g				
Temperature	•				
	Operating temperature		_		
			min	°C	-50
			max	°C	70
	Storage temperature				
	- ,		min	°C	-60
			max	°C	80
Max altitude			тах		3000
	n			m	3000
Resistance & Protectio	<u> </u>				
Pollution degree					3
Dimensions					

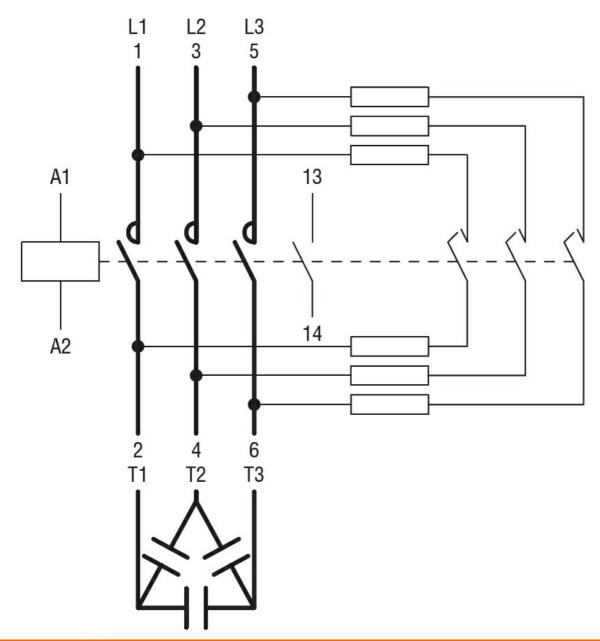






Wiring diagrams





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