



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	Ibin	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			4.0
	max		10
Flexible w/o lug conductor section		2	
	min	mm²	1
FI. 11 / 1	max	mm²	6
Flexible c/w lug conductor section	•		4
	min	mm²	1





	max	mm²	4
Flexible with insulated spade lug con			
	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	416
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			1.0
Thermal current Ith		Α	10
EC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	0001/	٨	2
	230V 400V	A	3
	500V	A A	1.9 1.4
Operating current DC12	300 V		1.4
Operating current DO12	110V	Α	5.7
Operating current DC13	1101		0.7
operating current 2010	24V	Α	5.7
	48V	Α	2.9
	60V	Α	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		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	الحمالة مفتد		400000
	rated load	cycles	400000
Mirror contate according to IEC/EN 600474 4 4	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility			YES
AC coil operating			yes
Rated AC voltage at 60Hz		V	48
AC operating voltage		•	
of 60Hz coil powered at 60Hz			
pick-up			
1 · · · · · · · · · · · · · · · · · · ·	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	111111	7000	20





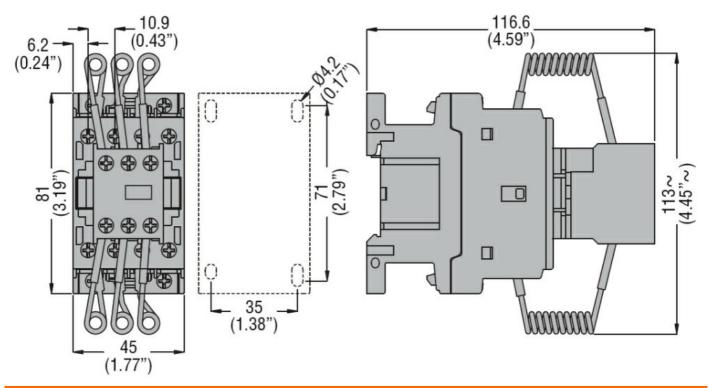
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 48VAC 60HZ

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				•••	2.0
				-	2000
Mechanical operation			(cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		J	min	ms	8
			max	ms	24
		Opening NO	max		
		Opening NO	min	m. o	10
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
UL technical data					
General USE					
	Contactor				
	Contactor		AC aurrant	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 auxili	ary contacts according to) UL			A600 - P600
Ambient conditions	ary cornacte acceraing to	. 3_			7.000
Temperature	•				
	Operating temperature		_		
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude			max		3000
				m	3000
Resistance & Protection	UII				
Pollution degree					3
Dimensions					

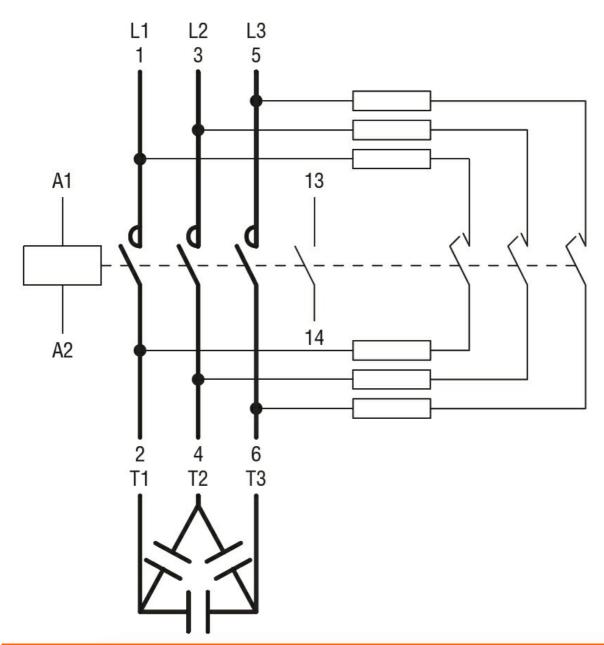






Wiring diagrams





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