



Product designation				Power contactor
Product type designation	n			BFK09
Contact characteristics				
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withstand	d voltage Uimp		kV	6
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free a			A	25
Rated operational power	er AC-6b (T≤40°C)			
		230V	kvar	4.5
		400V	kvar	7.5
		440480V	kvar	9
		690V	kvar	10
	rrent for 10s (IEC/EN60947-1)		Α	150
Protection fuse				
		gG (IEC)	Α	16
Making capacity (RMS v	ralue)		Α	90
Breaking capacity at vol	tage			
		440V	Α	72
		500V	Α	72
		690V	Α	71
Resistance per pole (av	rerage value)		mΩ 2.5	
Power dissipation per p	ole (average value)			
		Ith	W	1.6
Tightening torque for ter	rminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for co	il terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires sir	multaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
	Č	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	IP20 when
Power terminal protection according to IEC/EN 60529			properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30° Screw / DIN rail
Fixing			35mm
Weight		g	416
Auxiliary contact characteristics			
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12	4401		F 7
On another a supposed DO40	110V	A	5.7
Operating current DC13	241/	۸	E 7
	24V 48V	A A	5.7 2.9
	60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	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			
	rated load	cycles	400000
——————————————————————————————————————	mechanical load	cycles	20000000
EMC compatibility			yes
AC coil operating		V	57 5
Rated AC voltage at 60Hz AC operating voltage		V	575
of 60Hz coil powered at 60Hz			
pick-up			
ριοκ αρ	min	%Us	80
	max	%Us	110
drop-out		-	
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
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			

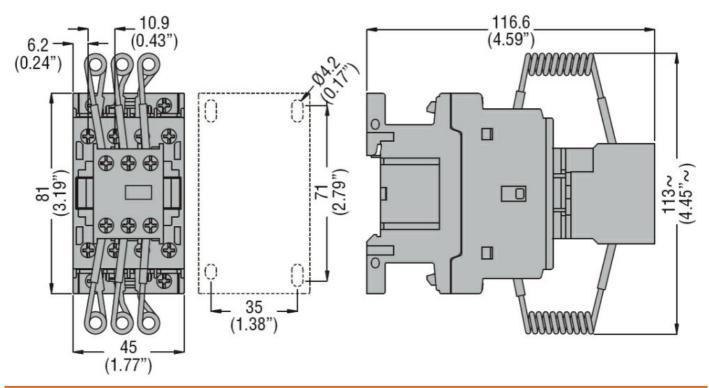




Mechanical operation	n		cycles/h	3600
Operating times				
Average time for Us	control			
	in AC			
	Closing N	0		
	_	min	ms	8
		max	ms	24
	Opening N	10		
		min	ms	10
		max	ms	20
	Closing N	С		
	_	min	ms	14
		max	ms	28
UL technical data				
Rated operational v	oltage AC (UL)		V	600
General USE				
	Contactor			
		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 auxiliary 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 & Prote	ction			
Pollution degree				3
Dimensions				

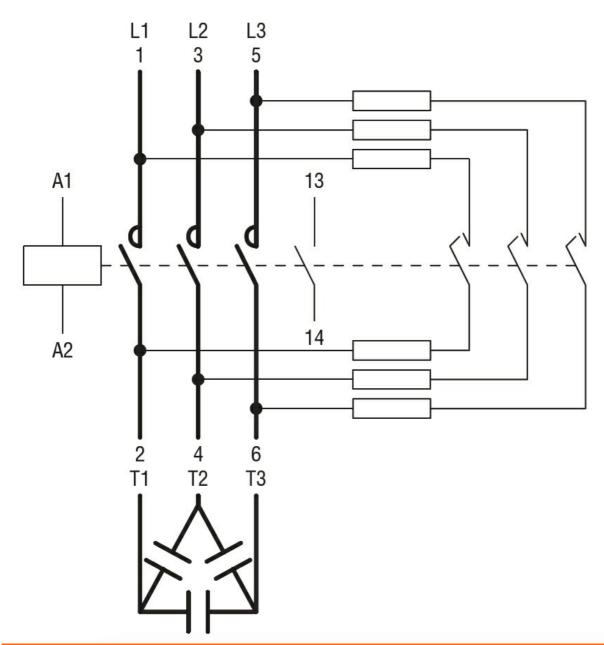






Wiring diagrams





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