



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	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
Q Q d	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section			
AWG/Kcmil			
AWO/Mill	max		10
Flexible w/o lug conductor section	IIIdX		10
i leviple m/o lad colladerol section	min	mm²	1
		mm²	
Elevible c/w lug conductor costica	max	111111	6
Flexible c/w lug conductor section	mai:m	mm²	1
	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		Α	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		Oyolos	400000
Performance level B10d according to EN/ISO 13489-1			
ŭ	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	220
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up	•	0/11-	0.0
	min	%Us	80
drop out	max	%Us	110
drop-out	min	%Us	20
	max	%Us	55
	παλ	,000	J-0



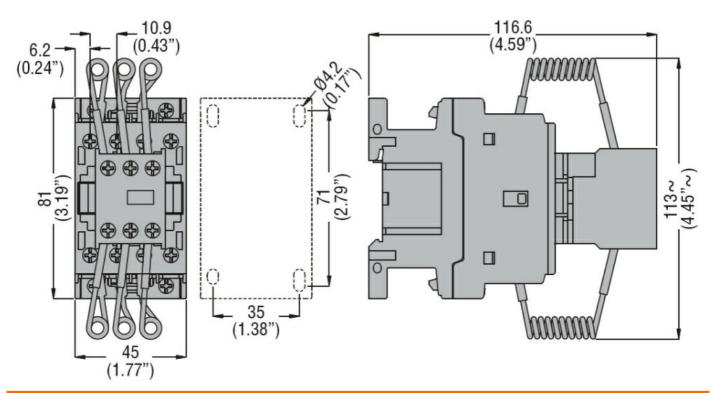


of 60Hz coil powered at 60Hz

	of our 12 con powered at our 12			
		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			Oyoloo/11	0000
Average time for Us co	entrol			
Average lime for US CC				
	in AC			
	Closi	ing NO		
		min	ms	8
		max	ms	24
	Oper	ning NO		
		min	ms	10
		max	ms	20
	Closi	ing NC		
	G.55.	min	ms	14
		max	ms	28
UL technical data		IIIdx	1113	20
General USE				
	Contactor			
		AC current	Α	25
	Auxiliary contacts			
	Auxiliary contacts	AC voltage	V	600
	Auxiliary contacts	<del>-</del>	V A	600 10
	Auxiliary contacts	AC current	Α	10
	Auxiliary contacts	AC current DC voltage	A V	10 250
Contact rating of auxilia		AC current	A V	10 250 1
_	Auxiliary contacts ary contacts according to UL	AC current DC voltage	A V	10 250
Ambient conditions		AC current DC voltage	A V	10 250 1
_	ary contacts according to UL	AC current DC voltage	A V	10 250 1
Ambient conditions		AC current DC voltage DC current	A V A	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL	AC current DC voltage	A V A	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL	AC current DC voltage DC current	A V A	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL	AC current DC voltage DC current	A V A	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL  Operating temperature	AC current DC voltage DC current  min max	A V A °C °C	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL  Operating temperature	AC current DC voltage DC current	A V A	10 250 1 A600 - P600 -50 70
Ambient conditions Temperature	ary contacts according to UL  Operating temperature	AC current DC voltage DC current  min max	A V A °C °C	10 250 1 A600 - P600 -50 70 -60 80
Ambient conditions Temperature  Max altitude	Operating temperature  Storage temperature	AC current DC voltage DC current  min max	°C °C °C	10 250 1 A600 - P600 -50 70
Ambient conditions Temperature  Max altitude Resistance & Protection	Operating temperature  Storage temperature	AC current DC voltage DC current  min max	A V A °C °C	10 250 1 A600 - P600 -50 70 -60 80 3000
Ambient conditions Temperature  Max altitude	Operating temperature  Storage temperature	AC current DC voltage DC current  min max	A V A °C °C	10 250 1 A600 - P600 -50 70 -60 80

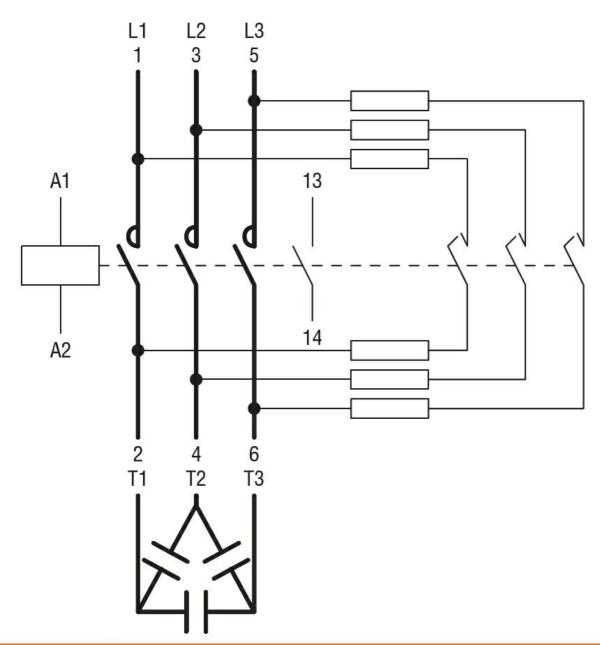






Wiring diagrams





## 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