



Product designation			Power contactor
Product type designation			BFK09
Contact characteristics		NI.	•
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)		A	150
Protection fuse			
1 1000000111000	gG (IEC)	Α	16
Making capacity (RMS value)	go (ILO)	A	90
Breaking capacity (NNS value)			30
breaking capacity at voltage	440V	۸	72
		A	
	500V	A	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	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			_ <del>-</del>
AWG/Kcmil			
AWO/AGIIII	max		10
Flexible w/o lug conductor section	IIIdX		10
Flexible w/o lug corludctor section	mai:n	mm²	1
	min	mm²	1
FIG. 11 Land 1 Land 1 Land	max	mm²	6
Flexible c/w lug conductor section		•	
	min	mm²	1





<del></del>	max	mm²	4
Flexible with insulated spade lug conductor secti		2	4
	min max	mm² mm²	1 4
	IIIax	111111	IP20 when
Power terminal protection according to IEC/EN 60529			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			
Association and a standard and a sta	max		10
Auxiliary contact characteristics  Thermal current Ith		A	10
IEC/EN 60947-5-1 designation		Α	A600 - P600
Operating current AC15			A000 - F000
Operating Current ACTO	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 600V	A	0.6
Operations	000 V	Α	0.1
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
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			40
Rated AC voltage at 50/60Hz		V	48
AC operating voltage			
of 50/60Hz coil powered at 50Hz pick-up			
ρισκ-αρ	min	%Us	80
	max	%Us	110
drop-out	max	,,,,,	. 10
3.0p 34.	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			

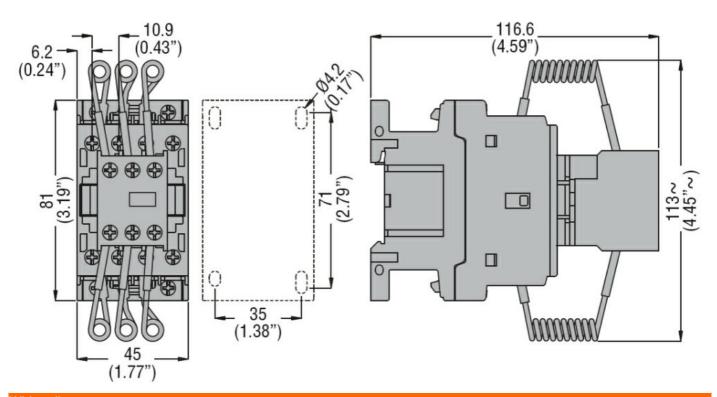




min max min max in-rush holding	%Us %Us %Us %Us	85 110 20 55
max min max in-rush	%Us %Us %Us VA	110 20
min max in-rush	%Us %Us VA	20
max in-rush	%Us	
max in-rush	%Us	
in-rush	VA	
		75
	VA	9
	VA	9
ماميس من	١/٨	70
in-rush	VA	70
holding	VA	6.5
		75
holding		9
	W	2.5
	cycles/h	3600
min	ms	8
max	ms	24
min	ms	10
max	ms	20
min	ms	14
max	ms	28
AC current	Α	25
7.0 00		
AC voltage	V	600
_		10
		250
_		1
DO CUITETIL		A600 - P600
		7000 - F000
	° C	50
		-50 -70
max	<u>"U</u>	70
min		-60
max	°C	80
	m	3000
		3
	max min max  min max  AC current  AC voltage AC current DC voltage DC current  min max  min	holding VA W  cycles/h  min ms max ms  min ms max ms  min ms max ms  AC current A  AC voltage V AC current A DC voltage V DC current A  DC voltage V C max °C

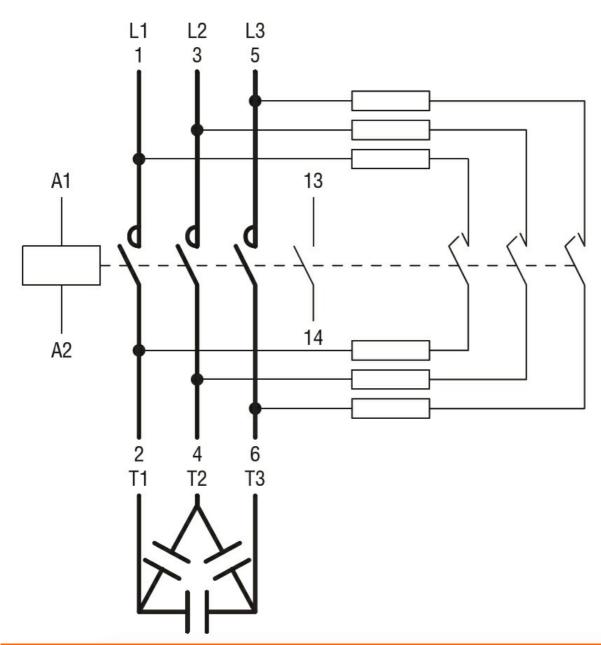






Wiring diagrams





## 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