



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 where
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		Cycles	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	230
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
	IIIUA	,000	J-0



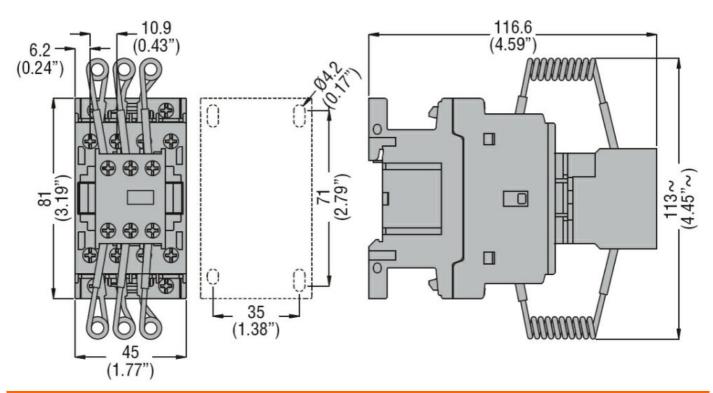


of 60Hz coil powered at 60Hz

	or our iz con powered at our			
		in-rus	h VA	75
		holdir	g VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			Gy GIC 3/11	0000
Average time for Us co	entrol			
Average lime for US CC				
	in AC			
	Clos	sing NO		
		m	n ms	8
		ma	x ms	24
	Ope	ening NO		
		m	n ms	10
		ma	x ms	20
	Clos	sing NC		
	5.60	m	n ms	14
		ma		28
UL technical data		1116	X 1113	20
General USE				
	Contactor			
		AC curre	nt A	25
	Auxiliary contacts			
	Auxiliary contacts	AC voltag	e V	600
	Auxiliary contacts	_		600 10
	Auxiliary contacts	AC curre	nt A	10
	Auxiliary contacts	AC curre DC voltag	nt A e V	10 250
Contact rating of auxilia		AC curre	nt A e V	10 250 1
_	Auxiliary contacts ary contacts according to UL	AC curre DC voltag	nt A e V	10 250
Ambient conditions		AC curre DC voltag	nt A e V	10 250 1
_	ary contacts according to UL	AC curre DC voltag	nt A e V	10 250 1
Ambient conditions		AC curre DC voltag DC curre	nt A e V nt A	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL	AC curre DC voltag	nt A e V nt A	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL	AC curre DC voltag DC curre	nt A e V nt A nn °C	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL	AC curred DC voltag DC curred	nt A e V nt A nn °C	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL Operating temperature	AC curred DC voltage DC curred me	nt A e V nt A n °C x °C	10 250 1 A600 - P600
Ambient conditions	ary contacts according to UL Operating temperature	AC curred DC voltage DC curred management of the	nt A e V nt A n °C x °C	10 250 1 A600 - P600 -50 70
Ambient conditions Temperature	ary contacts according to UL Operating temperature	AC curred DC voltage DC curred me	nt A e V nt A n °C x °C	10 250 1 A600 - P600 -50 70 -60 80
Ambient conditions Temperature Max altitude	Operating temperature Storage temperature	AC curred DC voltage DC curred management of the	nt A e V nt A n °C x °C	10 250 1 A600 - P600 -50 70
Ambient conditions Temperature Max altitude Resistance & Protection	Operating temperature Storage temperature	AC curred DC voltage DC curred management of the	nt A e V nt A n °C x °C	10 250 1 A600 - P600 -50 70 -60 80 3000
Ambient conditions Temperature Max altitude	Operating temperature Storage temperature	AC curred DC voltage DC curred management of the	nt A e V nt A n °C x °C	10 250 1 A600 - P600 -50 70 -60 80

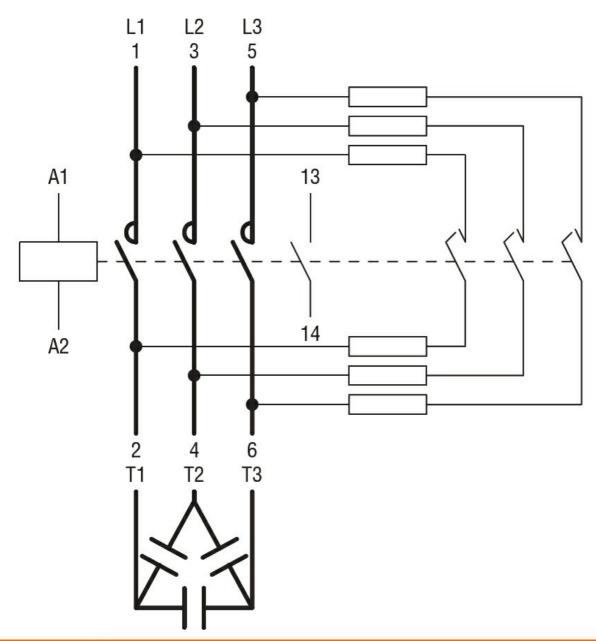






Wiring diagrams





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