



			6.4.4
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		А	25
Operational current le			
•	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	4.9
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	4.5
	400V	kvar	7.5
	500V	kvar	9
	690V	kvar	10
Short-time allowable current for 10s (IEC/EN60947-1)		A	150
Protection fuse			
	gG (IEC)	А	16
	aM (IEC)	A	10
Making capacity (RMS value)		A	90
Breaking capacity at voltage			
	440V	А	72
	500V	A	72
	690V	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	1.6
	AC3	W	0.2
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			
5 5 ··· (··· ··· ·····	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Conductor section			

Flexible w/o lug conductor section

min mm²

1

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	nax	mm²	6
Flexible c/w lug conductor section	i		4
	min	mm² mm²	1 4
Flexible with insulated spade lug conductor section	nax		4
	min	mm²	1
	nax	mm²	4
Power terminal protection according to IEC/EN 60529	ιαλ		IP20 when wired
Mechanical features			
Operating position			
nori	mal		vertical plan
allowa			±30°
			Screw / DIN rail
Fixing			35mm
Weight		g	416
Auxiliary contact characteristics			
Type of contact			1 NO
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	80V	А	3
	V00	A	1.9
	0V	A	1.4
Operating current DC12	~ ~ ~		
	0V	A	5.7
Operating current DC13			
	24V	A	5.7
	8V 60V	A A	2.9 2.3
	0V 0V	A	2.3 1.25
	25V	A	1.1
	20V	A	0.6
	0V	A	0.1
Operations		<i>,</i> ,	011
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data		-	
Performance level B10d according to EN/ISO 13489-1			
rated lo		cycles	400000
mechanical le	bad	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			true
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	12
	nax	V	600
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up		0/11-	110
	nax	%Us	110
drop-out	min	0/110	20
	min	%Us %Us	20 55
	nax	/005	55

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	of 50/60Hz coil	powered at 60Hz			
		pick-up			
			min	%Us	85
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC operating voltag					
	of 50/60Hz coil	powered at 50Hz			
			in-rush	VA	75
			holding	VA	9
	of 50/60Hz coil	powered at 60Hz			
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil pov	vered at 60Hz			
			in-rush	VA	75
			holding	VA	9
Dissipation at holdir				W	2.5
Max cycles frequen					
Mechanical operation	ns			cycles/h	3600
Operating times					
verage time for Us					
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			_
			min	ms	7
			max	ms	18
	in DC				
		Closing NO			
			min	ms	54
		a	max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
		Closing NC			
			min	ms	24
		a	max	ms	30
		Opening NC			
			min	ms	47
			max	ms	57
JL technical data Full-load current (FL	A) for three-phase A	AC motor			
	A) for three-phase <i>I</i>	AC motor	at 480V at 600V	A A	7.6 9

for single-phase AC motor

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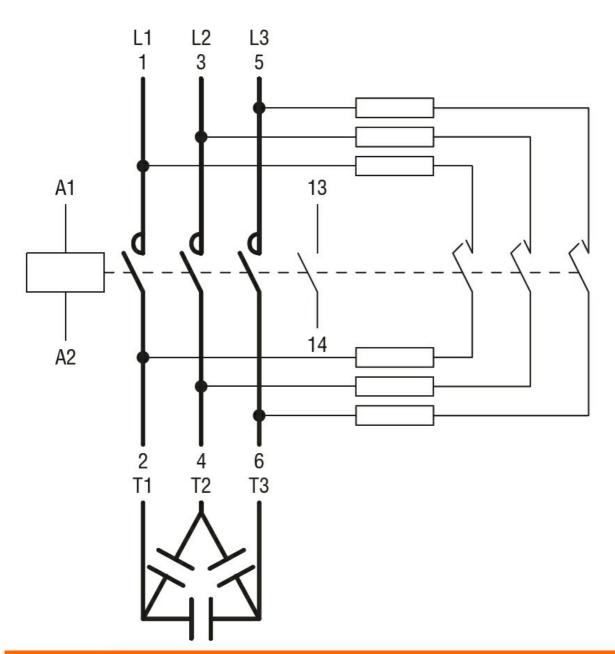
		110/120V	hp	0.8	
		230V	hp	2	
	for three-phase AC motor	2007	ΠP	-	<u> </u>
		200/208V	hp	3	
		220/230V	hp	3	
		460/480V	hp	5	
		575/600V	hp	7.5	
Contact rating of auxilia	ary contacts according to UL			A600 - I	P600
General USE	,				
	Auxiliary contacts				
		AC voltage	V	600	
		AC current	А	10	
		DC voltage	V	250	
		DC current	А	1	
Ambient conditions					
Temperature					
•	Operating temperature				
		min	°C	-50	
		max	°C	70	
	Storage temperature				
		min	°C	-60	
		max	°C	80	
Max altitude			m	3000	
Resistance & Protection	n				
Pollution degree				3	
Dimensions					
	10.0	116.6			
	10.9 0.43")	116.6(4.59")			٦
	0.43)	(4.59)	000000	a	<u> </u>
(0.24")	P		UAAAAA	Δ	1 1
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BB	(1.38")	100	000000	X/	1
		000	00000	<u>v</u>	

Wiring diagrams

45 (1.77")

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Certifications and compliance

Compliance

	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM 6 classification	

ETIM 6 classification

EC000066 - Power contactor, AC switching

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