



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
		kV	6
Rated impulse withstand voltage Uimp		KV	0
Operating frequency	<b>•</b> • • • •		
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	25
Operating current			
	Operational current AC1 (≤40°C)	А	25
	Operational current AC3 (≤440V ≤55°C)	А	9
	Operational current AC4 (400V)	А	4.9
Rated operational power AC1 (T≤40°C)			-
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
Rated operational power AC3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
Short-time allowable current for 10s (IEC/EN6	60947-1)	А	150
Protection fuse			
	gG (IEC)	А	25
	aM (IEC)	A	10
Making capacity (RMS value)		A	90
		A	90
Breaking capacity at voltage		_	
	Breaking capacity 440V	A	72
	Breaking capacity 500V	А	72
	Breaking capacity 690V	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	1.6
	ÁC3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5

## Tightening torque for coil terminal



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		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	· · · · · ·			
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section			
		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	4
Power terminal prote	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact char				
Type of contact				1 NC
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operational current A			А	25
			A	20
Operating current AC		0001/	•	0
		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	212			
		110V	Α	5.7
Operating current DC	213			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
				Screw / DIN rail
		110V	A	35mm
		125V	А	0.6
		220V	A	0.2
		600V	A	1.2
Ambient conditions		0001	Λ	112
Temperature				
romporataro	Operating temperature			
	oporating temperature	min	°C	-50
		max	°C	-50 70
	Storogo tomporaturo	max	U	10
	Storage temperature		° <b>^</b>	60
		min	°C	-60 80
		·		80
NA 100 - 1		max	°C	
		max	°C m	3000
				3000
		normal		3000 Vertical plan
				3000
Max altitude Operating position Mounting		normal		3000 Vertical plan

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Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
Performance level B1	Dd according to EN/ISO 13489-1			
		rated load	Cicli	2000000
		mechanical load	Cicli	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating AC operating voltage				
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pion dp	min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.85
	dran out	max	%Us	1.1
	drop-out	min	%Us	0.2
		max	%Us	0.2
	of 60Hz coil powered at 60Hz	Шах	/003	0.00
	pick-up			
	From of	min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	in ruch	VA	70
		in-rush holding	VA VA	6.5
	of 60Hz coil powered at 60Hz	noiding	٧٨	0.0
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz	3	W	2.5
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	8
	<b>a</b>	max	ms	24
	Opening NO			10
		min	ms	10
		max	ms	20

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	min	ms	14
	max	ms	28
Opening NC			
			_
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	-+ 400)/	^	7.0
	at 480V	А	7.6
	at 600V	Α	0.375
Yielded mechanical performance			
for single-phase AC motor			
for single phase Ao motor	-+ 440/4001/	h	0.75
	at 110/120V	hp	0.75
	at 230V	hp	2
for three-phase AC motor			
•	at 200/208V	hp	3
		-	
	at 220/230V	hp	3
	at 460/480V	hp	5
	at 575/600V	hp	7.5
Contact rating of auxiliary contacts according to UL		-	A600 - P600
General USE			///////////////////////////////////////
Contactor			
	AC current	Α	25
Other features			
Pollution degree			3
			3
Dimensions45			
Dimensions 6.2 (0.24") 6.2 (0.43")	(3. (3. (61:C) (61:C	0.7 18") –	

Closing NC

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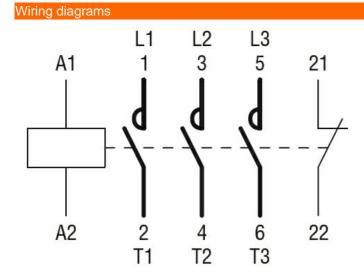
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ENERGY AND AUTOMATION

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## Certifications and compliance

Certifications

Certifications	
	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
Compliance	
	CCC
	cULus
	EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching

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