



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			0
operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdX	A	
		A	25
Operational current le			0.5
	AC-1 (≤40°C)	A	25
	AC-1 (≤55°C)	A	20
	AC-1 (≤70°C)	A	18
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	Α	4.9
Rated operational power AC-3 (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
Rated operational power AC-1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	0001	1	21
	≤24V	А	15
	48V		13
	46V 75V	A	
		A	12
	110V	A	6
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	18
	48V	A	18
	75V	A	17
	110V	А	12
	220V	Α	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	15
	_		



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 220VAC, 1NC AUXILIARY CONTACT

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## 220V А 10 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 20 48V А 20 75V 20 A 110V А 16 220V А 12 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V А 10 48V 9 А 75V 8 А 2 110V А 220V А \_ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V А 13 48V А 11 75V А 10 110V 7 А 220V А 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V А 15 48V 15 А 75V А 13 110V А 11 220V А 6 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V А 15 48V А 15 75V 15 А 110V А 12 220V А 7 Short-time allowable current for 10s (IEC/EN60947-1) А 150 Protection fuse gG (IEC) 25 А aM (IEC) А 10 Making capacity (RMS value) 90 А Breaking capacity at voltage 440V А 72 500V 72 А 690V А 71 Resistance per pole (average value) 2.5 mΩ Power dissipation per pole (average value)

	Ith	W	1.6
	AC-3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8



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Max number of wires	cimultanoquely connectable	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INF.	2
Conductor section	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	max		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	C C	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
	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
				35mm
Weight			g	348
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chai	racteristics		^	10
Thermal current Ith	agignation		A	10 A600 - P600
IEC/EN 60947-5-1 de	-			A600 - P600
Operating current AC		2201/	^	3
		230V 400V	A A	3 1.9
		400V 500V	A	1.4
Operating current DC	<u>`12</u>	300 v	~	1.4
		110V	А	5.7
Operating current DC	13	1100	Λ	5.7
operating current DC		24V	А	5.7
		24 V 48 V	A	2.9
		40V 60V	A	2.3
			<i>'</i> ``	
			А	1.25
		110V	A A	1.25 1.1
			A A A	1.25 1.1 0.55
		110V 125V	А	1.1
Operations		110V 125V 220V	A A	1.1 0.55
Operations Mechanical life		110V 125V 220V	A A	1.1 0.55
		110V 125V 220V	A A A	1.1 0.55 0.2
Mechanical life		110V 125V 220V	A A A cycles	1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	110V 125V 220V	A A A cycles	1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	110V 125V 220V	A A A cycles cycles	1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data		110V 125V 220V 600V	A A A cycles	1.1 0.55 0.2 20000000 2000000
Mechanical life Electrical life Safety related data Performance level B		110V 125V 220V 600V	A A cycles cycles	1.1 0.55 0.2 20000000 2000000



BF0901A22060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ,

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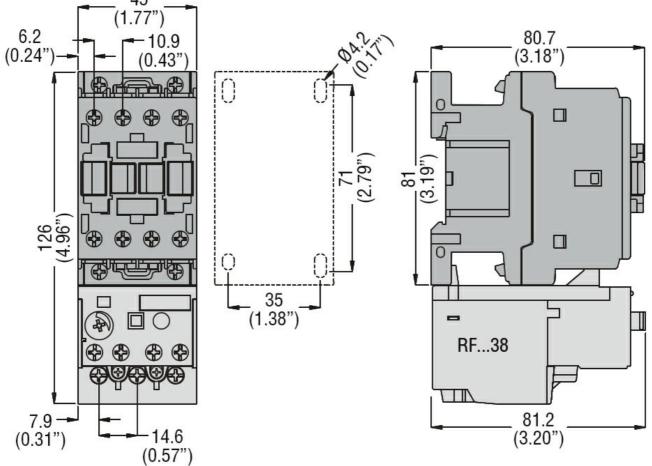
	60Hz		V	220
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	
		min	%Us	20
	evention at 20°C	max	%Us	55
AC average coil con				
	of 60Hz coil powered at 60Hz	in ruch	\/A	75
		in-rush	VA VA	75 9
Dissinction at holding		holding	W	2.5
Dissipation at holding			VV	2.5
			cycles/h	2600
Mechanical operation Operating times	1 		cycles/11	3000
Average time for Us	control			
wordgo time for 05	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
	- F	min	ms	10
		max	ms	20
	Closing NC			
	-	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
JL technical data				
Full-load current (FL	A) for three-phase AC motor			
		at 480V	A	7.6
	-	at 600V	A	0.375
rielded mechanical				
	for single-phase AC motor	440/4001		0.75
		110/120V	HP	0.75
	for three phone AQ motor	230V	HP	2
	for three-phase AC motor	200/208V	HP	2
		200/208V 220/230V	HP HP	3 3
		460/480V	HP HP	3 5
		460/480V 575/600V	HP	5 7.5
General USE		575/0007	111	1.0
	Contactor			
	Contactor	AC current	А	25
	Auxiliary contacts		~	20
				600
		AC voltage	1/	
	Advinally contacto	AC voltage	V	600 10
	, taxinally contacte	AC current	А	10
	, contracte	AC current DC voltage	A V	10 250
Short-circuit protecti		AC current	А	10

**BF0901A22000** The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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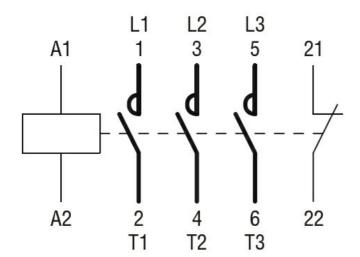
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	60
Contact rating of aux	iliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Dimensions				
	45			
	40			



## Wiring diagrams

BF0901A22060





## Certifications and compliance

Compliance
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eemphanee	
	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** 

EC000066 -Power contactor, AC switching