



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			Ū
operating nequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith	Operational frequency max	A	25
Operating current		~	25
Operating current	Operational surrent AC1 (<10°C)	٨	25
	Operational current AC1 (≤40°C)	A	25
	Operational current AC3 (≤440V ≤55°C)	A	9
	Operational current AC4 (400V)	A	4.9
Rated operational power AC1 (T≤40°C)	0001/		0.5
	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/EN	60947-1)	А	150
Protection fuse			
	gG (IEC)	А	25
	aM (IEC)	А	10
Making capacity (RMS value)		А	90
Breaking capacity at voltage			
	Breaking capacity 440V	А	72
	Breaking capacity 500V	А	72
	Breaking capacity 690V	А	71
Resistance per pole (average value)	3.4.6.9	mΩ	2.5
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals	A00	**	5.2
rightening torque for terminals	min	Nm	1.5
	max	Nm	1.8
	min	Ibft	1.0
		Ibit	
	max	וטו	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	s 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			
	<u> </u>	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	1 5	min	mm²	1
		max	mm²	4
Power terminal prote	ection according to IEC/EN 60529			IP20 when wired
Auxiliary contact cha				
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 d	lesignation			A600 - P600
Operational current A			А	25
Operating current AC			~	25
Operating current AC	515	2201/	۸	2
		230V	A	3
		400V	A	1.9
<u> </u>	240	500V	A	1.4
Operating current DO	512			
-		110V	A	5.7
Operating current DO	C13			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	Screw / DIN rail
		1100	~	35mm
		125V	А	0.6
		220V	А	0.2
		600V	А	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	5	min	°C	-60
		max	°Č	80
			m	3000
Max altitude				
		normal		Vertical nlan
		normal		Vertical plan
		normal allowable		±30°
Max altitude Operating position Mounting				

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Operations Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data			Cycles	2000000
	0d according to EN/ISO 13489-1			
	Ũ	rated load	Cicli	2000000
		mechanical load	Cicli	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	0.8
		max	%Us	1.1
	drop-out	Пах	/000	
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out		0/11-	0.2
		min max	%Us %Us	0.2 0.55
	of 60Hz coil powered at 60Hz	IIIdX	/005	0.00
	pick-up			
	From wh	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	1 I		75
		in-rush	VA	75 0
	of 50/60Hz coil powered at 60Hz	holding	VA	9
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz		-	
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
DC coil operating				
DC rated control voltage	ge			
		max	V	250
Max cycles frequency			Oueles /	2000
Mechanical operations	; 		Cycles/h	3600
Operating times Average time for Us co	ontrol			
Average une IUI US C	in AC			
	Closing NO			
	5	min	ms	8

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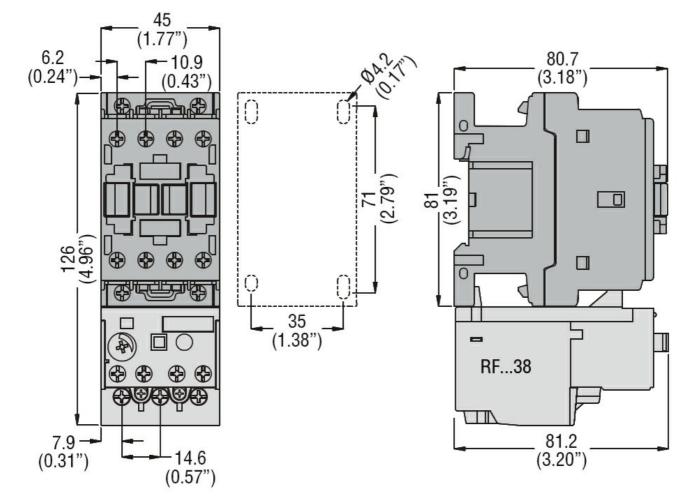


Opening NO			
	min	ms	10
	max	ms	20
Closing NC			
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	А	7.6
	at 600V	А	0.375
Yielded mechanical performance			
for single-phase AC motor			
	at 110/120V	hp	0.75
	at 230V	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	А	25
Other features			
Pollution degree			3
Dimensions			

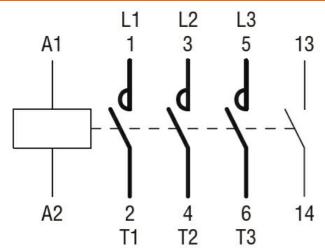
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Wiring diagrams



Certifications and compliance

Certifications	;
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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

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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



ETIM 6 classification

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cULus EAC

EC000066 - Power contactor, AC switching