



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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	25
Operational current le			
	AC-1 (≤40°C)	А	25
	AC-1 (≤55°C)	А	20
	AC-1 (≤70°C)	А	18
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	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			
	≤24V	А	15
	48V	А	13
	75V	А	12
	110V	А	6
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	17
	110V	А	12
	220V	А	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	A	20



BF0910L024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 24VDC, 1NO AUXILIARY CONTACT

ONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 24VDC, 1NO AUXILIARY CONTACT							
		220V	A	10			

	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	А	20	
	110V	А	16	
	220V	А	12	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	А	10	
	48V	А	9	
	75V	А	8	
	110V	А	2	
	220V	A	-	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series				
	≤24V	A	13	
	48V	A	11	
	75V	А	10	
	110V	А	7	
	220V	A	2	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series				
	≤24V	A	15	
	48V	Α	15	
	75V	A	13	
	110V	A	11	
	220V	Α	6	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	-0.0.4		4 -	
	≤24V	A	15	
	48V	A	15	
	75V	A	15	
	110V 220V	A	12 7	
Short time allowable surrent for 10s (IEC/EN60047.1)	2200	A A	150	
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		A	150	
Protection fuse		۸	25	
	gG (IEC)	A	25	
Making capacity (RMS value)	aM (IEC)	A A	10 90	
		A	90	
Breaking capacity at voltage	440V	۸	70	
	440V 500V	A A	72 72	
	690V	A	72	
Resistance per pole (average value)	030 V	mΩ	2.5	
Power dissipation per pole (average value)		11152	2.0	
· over alsopation per pole (average value)	lth	W	1.6	
	AC-3	W	0.2	
Tightening torque for terminals	AC 3	vv	0.2	
	min	Nm	1.5	
	max	Nm	1.8	
	min	Ibin	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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Maria al ser de las s		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	mov		10
	Flowible w/o lug conductor costion	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	IIIdA	111111	0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	IIIdA		7
	T lexible with insulated space by conductor section	min	mm²	1
		max	mm²	4
		IIIdA		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
F isie e				Screw / DIN ra
Fixing				35mm
Weight			g	500
Conductor section			-	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	212			
		110V	А	5.7
Operating current DC	213			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	1.25
		125V	А	1.1
		220V	А	0.55
			А	0.2
		600V	A	0.2
Operations		600V	A	012
•		600V	cycles	20000000
Mechanical life		600V		
Mechanical life Electrical life		600V	cycles	20000000
Operations Mechanical life Electrical life Safety related data Performance level B ²	10d according to EN/ISO 13489-1	600V	cycles	20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	600V	cycles cycles	20000000
Mechanical life Electrical life Safety related data	-		cycles cycles cycles	20000000 2000000 2000000
Mechanical life Electrical life Safety related data Performance level B ²	m	rated load	cycles cycles	20000000 2000000 2000000 2000000
Mechanical life Electrical life Safety related data Performance level B ²	-	rated load	cycles cycles cycles	20000000 2000000 2000000



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DC rated control voltag	10			V	24
DC operating voltage	Je			v	24
Do operating voltage	pick-up				
	μοκ-αρ		min	%Us	80
			max	%Us	110
	drop-out		Παλ	/005	110
	ulop-out		min	%Us	10
			max	%Us	40
Average coil consump	tion <20°C		IIIdA	/003	40
Average con consump			in-rush	W	2.4
			holding	W	2.4
Max cycles frequency			Tiolding	vv	2.4
Max cycles nequency Mechanical operation				cycles/h	3600
				Cycles/II	3000
Operating times	ntrol				
Average time for Us co	in AC				
	INAC				
		Closing NO			0
			min	ms	8
			max	ms	24
		Opening NO		~~~	10
			min	ms	10
			max	ms	20
		Closing NC			4.4
			min	ms	14
			max	ms	28
		Opening NC			7
			min	ms	7
	in DC		max	ms	18
	in DC				
		Closing NO	min	~	75
			min	ms	75
		Opening NO	max	ms	91
		Opening NO	min	~	1 5
			min	ms	15
LIL technical data			max	ms	19
UL technical data	for three phase AC	motor			
Full-load current (FLA)	ior unee-phase AC		ct 4001/	٨	7.6
			at 480V at 600V	A A	7.6 0.375
Yielded mechanical pe	rformanaa		ai 000V	А	0.375
neided mechanical pe		AC motor			
	for single-phase /		110/1001/	ЦР	0.75
			110/120V	HP	0.75
	for three stars A	C motor	230V	HP	2
	for three-phase A		000/0001		2
			200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	7.5
General USE	Quarter i				
	Contactor		10		05
	A 111		AC current	A	25
	Auxiliary contacts				
			AC voltage	V	600
			AC current	A	10

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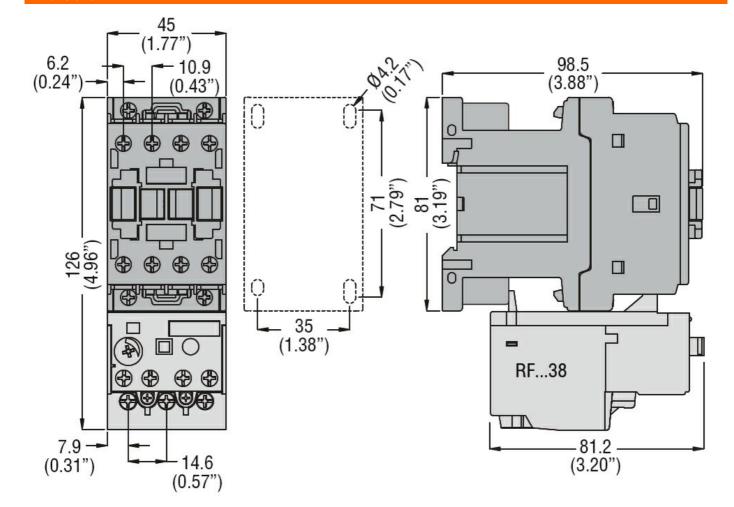
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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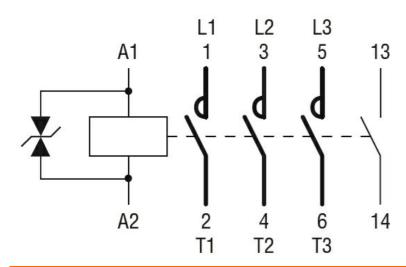
		DC voltage	V	250
		DC current	А	1
Short-circuit protec	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	60
Contact rating of au	uxiliary contacts according to UL			A600 - P600
Ambient conditions	;			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				



Wiring diagrams



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Certifications and compliance

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

EC000066 -Power contactor, AC switching