



			•
Product designation			Power contacto
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	_
EC 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	А	20

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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	А	20	
	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	А	9	
	75V	А	8	
	110V	А	2	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	13	
	48V	A	11	
	75V	A	10	
	110V	A	7	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	~	<u> </u>	
TEC max current le in DC5-DC5 with E/IC3 Toms with 5 poles in series	≤24V	А	15	
	48V	A	15	
	48V 75V	A	13	
	110V			
	220V	A	11	
	2200	A	6	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	-041/	۸	45	
	≤24V	A	15	
	48V	A	15	
	75V	A	15	
	110V	A	12	
	220V	A	7	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150	
Protection fuse				
	gG (IEC)	A	25	
	aM (IEC)	A	10	
Making capacity (RMS value)		А	90	
Breaking capacity at voltage				
	440V	А	72	
	500V	А	72	
	690V	Α	71	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	lth	W	1.6	
	AC-3	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				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	
			0.0	

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Max number of wires	s simultaneously connectable	max	Ibin Nr.	0.74
Conductor section	Simulaneously connectable		INI.	۷
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			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal prote	ection according to IEC/EN 60529			IP20 when
·				properly wired
Mechanical features				
Operating position		normal		Vertical plan
		normal allowable		vertical plan ±30°
		allowable		Screw / DIN ra
Fixing				35mm
Weight			g	495
Conductor section			0	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact cha	racteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d				A600 - P600
Operating current AC	C15			
operating current / te			Α	3
		230V		
		400V	A	1.9
Operating current DC	C12	400V 500V	A A	1.9 1.4
Operating current D0		400V	A	1.9
		400V 500V 110V	A A A	1.9 1.4 5.7
Operating current D0		400V 500V 110V 24V	A A A	1.9 1.4 5.7 5.7
Operating current D0		400V 500V 110V 24V 48V	A A A A A	1.9 1.4 5.7 5.7 2.9
Operating current D0		400V 500V 110V 24V 48V 60V	A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3
Operating current D0		400V 500V 110V 24V 48V 60V 110V	A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25
Operating current D0		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current D0		400V 500V 110V 24V 48V 60V 110V	A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current D0		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DO		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DO Operating current DO		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DO Operating current DO Operations Mechanical life		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A Cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A Cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	C13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A Cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000
Operating current DO Operating current DO Operations Mechanical life Electrical life Safety related data Performance level B	213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000

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**1NO AUXILIARY CONTACT** 

DC roted control voltor				V	110
DC rated control voltage	je			V	110
DC operating voltage	pick-up				
	ρισκ-αρ		min	%Us	70
			max	%Us	125
	drop-out		тал	/000	120
			min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C				
			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO	_		_
			min	ms	8
			max	ms	24
		Opening NO			4.0
			min	ms	10 20
		Closing NC	max	ms	20
		Closing NC	min	ms	14
			max	ms	28
		Opening NC	Пах	1113	20
		opening No	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
		-	min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mo	tor		<u>.</u>	
			at 480V	A	7.6
Violded we show it all a			at 600V	Α	0.375
Yielded mechanical pe		otor			
	for single-phase AC m	10101	110/120V	Цр	0.75
			230V	HP HP	0.75 2
	for three-phase AC m	otor	2307	ΠP	۷
	ior unee-phase AO III		200/208V	HP	3
			200/200V 220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	7.5
General USE					-
	Contactor				
			AC current	А	25
	Auxiliary contacts				
	-		AC voltage	V	600
			AC current	А	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

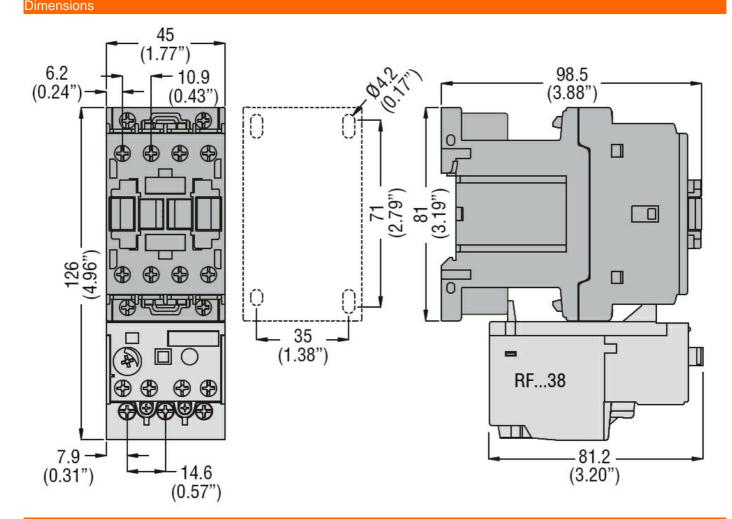


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC,

**1NO AUXILIARY CONTACT** 

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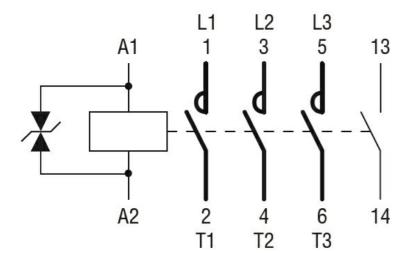
		DC voltage	V	250
		DC current	А	1
Short-circuit protec	tion fuse, 600V			
	High fault			
	5	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	60
Contact rating of au	ixiliary contacts according to UL			A600 - P600
Ambient conditions				
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



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, **1NO AUXILIARY CONTACT** 



## 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

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