



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		Α	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 ≤ 1ms with 3 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	15
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 24VAC, 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 20 А 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 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 11 А 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 13 А 110V А 11 220V 6 А 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 A aM (IEC) А 10 Making capacity (RMS value) А 90 Breaking capacity at voltage 440\/ 72 Δ

	440 V	A	12	
	500V	А	72	
	690V	А	71	
Resistance per pole (average value)		mΩ	2.5	
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	lbin	1.5	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	

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		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
		max		10
	Flexible w/o lug conductor section		2	
		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
		allowable		±30°
Fixing				Screw / DIN rai
				35mm
Weight			g	360
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	racteristics			
Thermal current Ith			А	10
			A	10
EC/EN 60947-5-1 de	esignation		A	A600 - P600
	-		A	
IEC/EN 60947-5-1 de	-	230V	A	
IEC/EN 60947-5-1 de	-	230V 400V		A600 - P600
IEC/EN 60947-5-1 de	-		A	A600 - P600 3
EC/EN 60947-5-1 de Operating current AC	215	400V	A A	A600 - P600 3 1.9
IEC/EN 60947-5-1 de	215	400V	A A A	A600 - P600 3 1.9
EC/EN 60947-5-1 de Operating current AC Operating current DC	C15 C12	400V 500V	A A	A600 - P600 3 1.9 1.4
EC/EN 60947-5-1 de Operating current AC	C15 C12	400V 500V 110V	A A A A	A600 - P600 3 1.9 1.4 5.7
EC/EN 60947-5-1 de Operating current AC Operating current DC	C15 C12	400V 500V 110V 24V	A A A A	A600 - P600 3 1.9 1.4 5.7 5.7
EC/EN 60947-5-1 de Operating current AC Operating current DC	C15 C12	400V 500V 110V 24V 48V	A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9
EC/EN 60947-5-1 de Operating current AC Operating current DC	C15 C12	400V 500V 110V 24V 48V 60V	A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3
EC/EN 60947-5-1 de Operating current AC Operating current DC	C15 C12	400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25
EC/EN 60947-5-1 de Operating current AC Operating current DC	C15 C12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
EC/EN 60947-5-1 de Operating current AC Operating current DC	C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55
EC/EN 60947-5-1 de Operating current AC Operating current DC	C15 C12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	215	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000
EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	215 212 213 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	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000 2000000
EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	215 212 213 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	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000 2000000 2000000
EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	215 212 213 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	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000 2000000



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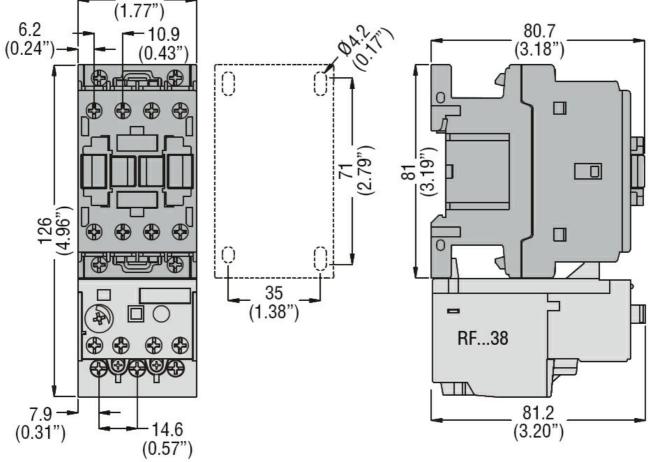
24VAC, 1NC AUXILIARY CONTACT

AC operating voltage	60Hz		V	24
1 0 0				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons				
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			7
		min	ms	7
UL technical data		max	ms	18
) for three phase AC motor			
) for three-phase AC motor	at 480V	А	7.6
Violded mechanical n	orformanaa	at 600V	A	0.375
Yielded mechanical p				
	for single-phase AC motor			
		110/120\/	ЦП	0 75
		110/120V	HP	0.75
	for three phase AC motor	110/120V 230V	HP HP	0.75 2
	for three-phase AC motor	230V	HP	2
	for three-phase AC motor	230V 200/208V	HP HP	3
	for three-phase AC motor	230V 200/208V 220/230V	HP HP HP	2 3 3
	for three-phase AC motor	230V 200/208V 220/230V 460/480V	HP HP HP HP	2 3 3 5
General USE	for three-phase AC motor	230V 200/208V 220/230V	HP HP HP	2 3 3
General USE		230V 200/208V 220/230V 460/480V	HP HP HP HP	2 3 3 5
General USE	for three-phase AC motor	230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	2 3 3 5 7.5
General USE	Contactor	230V 200/208V 220/230V 460/480V	HP HP HP HP	2 3 3 5
General USE		230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP A	2 3 3 5 7.5 25
General USE	Contactor	230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage	HP HP HP HP A	2 3 3 5 7.5 25 600
General USE	Contactor	230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current	HP HP HP HP A	2 3 3 5 7.5 25 600 10
General USE	Contactor	230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current DC voltage	HP HP HP HP V A V	2 3 3 5 7.5 25 600 10 250
General USE	Contactor Auxiliary contacts	230V 200/208V 220/230V 460/480V 575/600V AC current AC voltage AC current	HP HP HP HP A	2 3 3 5 7.5 25 600 10



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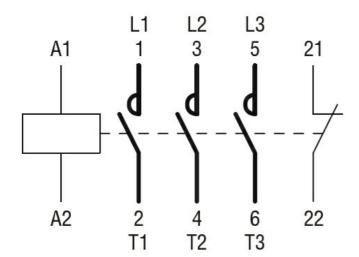
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	60
Contact rating of aux	kiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
Dimensions				
	45			
	(1 77")			



Wiring diagrams

BF0901A02460





Certifications and compliance

Comp	liance

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