ENERGY AND AUTOMATION



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	A	18
	75V	A	17
	110V	A	12
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2201		•
	≤24V	А	20
	48V	A	20
	48V 75V	A	20
	110V	A	15
	1100	А	10



BF0901A024 electric 3-х пол. контактор, рабочий ток IEC IE (АСЗ) = 9А, КАТУШКА АС 50/60 ГЦ, 24В ПЕРЕМ. ТОКА, 1НЗ ВСПОМОГАТЕЛЬНЫЙ КОНТАКТ

	220V	Α	10	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	А	20	
	48V	A	20	
	48V 75V	A	20	
	110V	A	16	
	220V	Α	12	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series				
	≤24V	А	10	
	48V	А	9	
	75V	A	8	
	110V	A	2	
	220V	A	_	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series				
	≤24V	Α	13	
	48V	А	11	
	75V	А	10	
	110V	A	7	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series				
	≤24V	Α	15	
	48V	Α	15	
	75V	А	13	
	110V	А	11	
	220V	A	6	
	220 V	A	0	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series		-		
	≤24V	A	15	
	48V	Α	15	
	75V	А	15	
	110V	А	12	
	220V	А	7	
Short-time allowable current for 10s (IEC/EN60947-1)		A	150	
Protection fuse		~	100	
Protection fuse	e (1=e)	-		
	gG (IEC)	А	25	
	aM (IEC)	Α	10	
Making capacity (RMS value)		Α	90	
Breaking capacity at voltage				
<u> </u>	440V	А	72	
	500V	A	72	
	690V	A	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	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	••	•	
nyntoning torque for terminala		Nime	4 5	
	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	lbin	0.8	



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Maximum		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	may		10
	Flexible w/o lug conductor section	max		10
	Therefore with the conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Dower terminal prote	ction according to IEC/EN 60529			IP20 when
Power terminal prote	clion according to IEC/EN 80529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra 35mm
Weight			g	360
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - P600
Operating current AC	15			
		230V	А	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	А	5.7
Operating current DC	13			
		24V	А	5.7
		48V	А	2.9
		60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A A	0.55
		<u> </u>	~ ~ ~	0.2
Operations		600V	~	
		600V		
Mechanical life		600V	cycles	20000000
Mechanical life Electrical life		600V		
Operations Mechanical life Electrical life Safety related data	Ind according to EN/ISO 12499 1	600V	cycles	20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1		cycles cycles	20000000 2000000
Mechanical life Electrical life Safety related data	-	rated load	cycles cycles cycles	20000000 2000000 2000000
Mechanical life Electrical life Safety related data Performance level B	me		cycles cycles	20000000 2000000 2000000 2000000
Mechanical life Electrical life Safety related data Performance level B	-	rated load	cycles cycles cycles	20000000 2000000 2000000

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ENERGY AND AUTOMATION	ТОКА, 1НЗ ВСПС	ΜΟΓΑΤΕ	ЕЛЬНЫЙ КОНТАКТ
Rated AC voltage at 50/60Hz		V	24
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	75
	holding	VA	9
of 50/60Hz coil powered at 60Hz			
	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	
Average coil consumption ≤20°C	

Average coil consumption ≤20°C				
		in-rush	W	5.4
		holding	W	2.4
Max cycles frequency		J. J		
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us control				
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			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA) for three-phase AC moto	r			
		at 480V	А	7.6
		at 600V	А	0.375

Yielded mechanical performance for single-phase AC motor



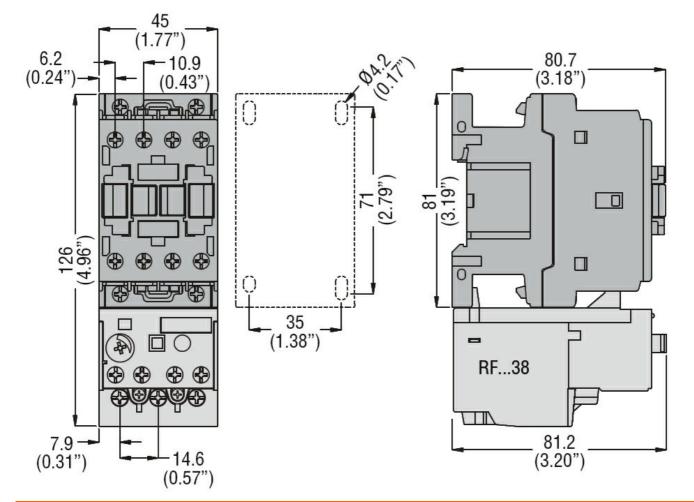
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		110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor			
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	А	25
	Auxiliary contacts		73	20
	Advinary contacts	AC voltage	V	600
		AC voltage	Å	10
			A V	250
		DC voltage		
<u></u>		DC current	A	1
Short-circuit protec				
	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	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		IIIaA	 	3000
Resistance & Prote			111	5000
				2
Pollution degree				3
Dimensions				

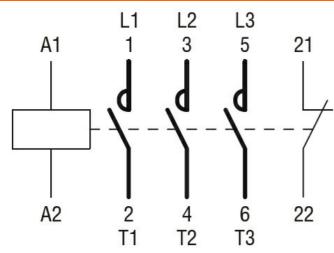
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Wiring diagrams



Certifications and 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	



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	CCC
	cULus
	EAC
classification	

ETIM 8.0

ETIM

EC000066 -Power contactor, AC switching