BF0901A110



Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 110VAC, 1NC auxiliary contact



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			Broo
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)		20
	· · · · · · · · · · · · · · · · · · ·	A	
	AC-1 (≤70°C)	A	18
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	Α	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
Batad anarational namer AC 1 (T<10°C)	090 V	r v v	1.5
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 \leq 1ms with 1 poles in series			
	≤24V	А	15
	48V	А	13
	75V	A	12
	110V	A	6
	220V		
IFO many surgest to in DO1 with L/D < 1 ms with 0 males in series	2200	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	18
	48V	А	18
	75V	Α	17
	110V	Α	12
	220V	А	1
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series			
	≤24V	А	20
	48V	A	20
	48V 75V		
		A	20
	110V	А	15

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	220V	А	10	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	20	
	48V	А	20	
	75V	А	20	
	110V	А	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	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	А	11	
	75V	А	10	
	110V	A	7	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	7.	2	
	≤24V	А	15	
	48V	A	15	
	48V 75V	A	13	
	110V	A	13	
	220V	A	6	
IFC may aurrent to in DC2 DC5 with L/D < 15mg with 4 pales in agrice	220 V	A	0	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	≤24V	۸	15	
		A	15	
	48V	A	15	
	75V	A	15	
	110V	A	12	
	220V	<u>A</u>	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)		Α	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	
	AC3	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	0.8 1	
	min	lbin	0.8	
	[]]]]]	ווועו	0.0	



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		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
		max		10
	Flexible w/o lug conductor section			4
		min	mm² mm²	1 6
	Flexible c/w lug conductor section	max	11111	0
	Flexible C/W lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor sectio			T
	Tiexible with insulated spade by conductor sectio	min	mm²	1
		max	mm²	4
Power terminal protec	tion according to IEC/EN 60529	Пах		IP20 when wired
Mechanical features				
Operating position				
- I		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	358
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - P600
Operating current AC1	15			
		230V	А	3
		400V	А	1.9
		500V	A	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13			
		24V	А	5.7
		48V	A	2.9
		60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
Operations		600V	A	0.2
Operations			oveloc	20000000
Mechanical life			cycles	2000000
Safety related data			cycles	2000000
	Od according to EN/ISO 12490 1			
r enormance level B1	0d according to EN/ISO 13489-1	rotod lood	ovoloo	200000
		rated load	cycles	2000000
Mirror contate accord		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
	0/60Hz		V	110
Rated AC voltage at 5			v	110

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ENERGY AND AUTOMATION

AC operating valtage				
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	Пах	/000	00
	pick-up			~ -
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			
no average con cons				
	of 50/60Hz coil powered at 50Hz		١ / ٨	75
		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			W	2.5
Max cycles frequency	,			
Mechanical operation				2600
meenamear operation			cycles/h	3000
			cycles/h	3000
Operating times	control		cycles/h	3600
			cycles/h	3600
Operating times	in AC		cycles/h	3600
Operating times				
Operating times	in AC	min	ms	8
Operating times	in AC Closing NO	min max		
Operating times	in AC		ms	8
Operating times	in AC Closing NO		ms	8
Operating times	in AC Closing NO	max	ms ms ms	8 24 10
Operating times	in AC Closing NO Opening NO	max	ms ms	8 24
Operating times	in AC Closing NO	max min max	ms ms ms ms	8 24 10 20
Operating times	in AC Closing NO Opening NO	max min max min	ms ms ms ms ms	8 24 10 20 14
Operating times	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms ms	8 24 10 20
Operating times	in AC Closing NO Opening NO	max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Operating times	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us o	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Operating times	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us of UL technical data	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us of UL technical data	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 7.6
Operating times Average time for Us of UL technical data Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 7.6
Operating times Average time for Us of UL technical data Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms as	8 24 10 20 14 28 7 18 7.6 0.375
Operating times Average time for Us of UL technical data Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms A A HP	8 24 10 20 14 28 7 18 7.6 0.375 0.75
Operating times Average time for Us of UL technical data Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms as	8 24 10 20 14 28 7 18 7.6 0.375
Operating times Average time for Us of UL technical data Full-load current (FLA	in AC Closing NO Opening NO Closing NC Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms A A HP	8 24 10 20 14 28 7 18 7.6 0.375 0.75
Operating times Average time for Us of UL technical data Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms ms A A HP HP	8 24 10 20 14 28 7 18 7.6 0.375 0.75 2
Operating times Average time for Us of UL technical data Full-load current (FLA	in AC Closing NO Opening NO Closing NC Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms A A HP	8 24 10 20 14 28 7 18 7.6 0.375 0.75



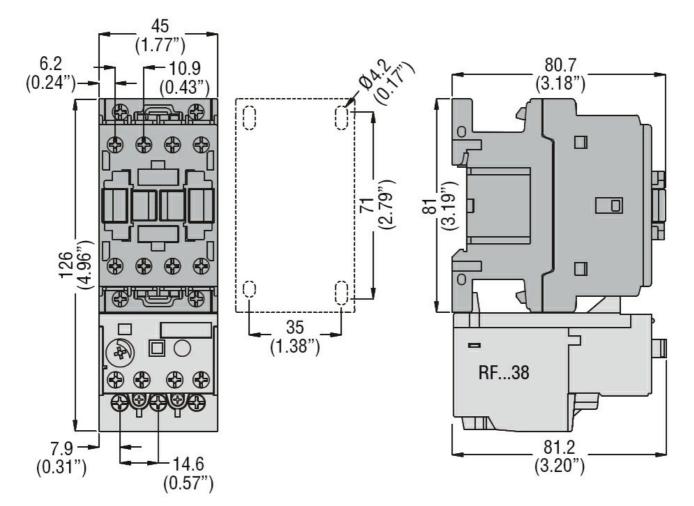
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		460/480V	HP	5
		575/600V	HP	7.5
General USE				
Contac	ctor			
		AC current	А	25
Auxilia	iry contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protection fuse, 60	00V			
High fa				
		Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class		J
Standa	ard fault			•
Otande		Short circuit current	kA	5
		Fuse rating	A	60
Contact rating of auxiliary conta	acts according to LI	r use rating	А	A600 - P600
Ambient conditions				A000 - P 000
Temperature				
Operat	ting temperature		° 0	50
		min	°C	-50
		max	°C	70
Storag	je temperature			
		min	°C	-60
			-	
		max	°Č	80
Max altitude		max	-	80 3000
Max altitude Resistance & Protection		max	°C	
		max	°C	

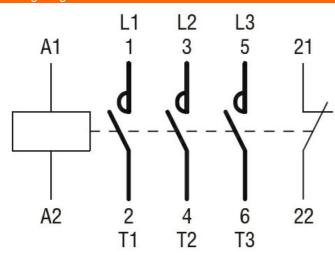
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Wiring diagrams



Certifications and compliance Compliance

Compliance	
	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
Certificates	



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	CCC
	cULus
	EAC
IM classification	

ETIM 8.0

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EC000066 -Power contactor, AC switching