## BF0910A024



Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 24VAC, 1NO auxiliary contact



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			BI00
		N La	0
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		A	25
Operational current le			20
		٨	25
	AC-1 (≤40°C)	A	25
	AC-1 (≤55°C)	A	20
	AC-1 (≤70°C)	А	18
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4.2
	400V 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 $\leq$ 1ms with 1 poles in series			
	≤24V	۸	15
		A	15
	48V	A	13
	75V	A	12
	110V	А	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	18
	48V	А	18
	75V	A	17
	110V	A	12
	220V		
	2200	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		_	
	≤24V	A	20
	48V	А	20
	75V	А	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	A	20	
	110V	A	16	
	220V	A	12	
	2200	A	12	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	A	10	
	48V	Α	9	
	75V	Α	8	
	110V	А	2	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series	2201			
TEO max current le in DOS-DOS with Ert 2 Toms with 2 poles in series	<241/	۸	10	
	≤24V	A	13	
	48V	A	11	
	75V	A	10	
	110V	А	7	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
	≤24V	А	15	
	48V	A	15	
	40V 75V	A	13	
	110V	A	11	
	220V	A	6	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
	≤24V	Α	15	
	48V	А	15	
	75V	А	15	
	110V	А	12	
	220V	A	7	
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	150	
		A	150	
Protection fuse				
	gG (IEC)	А	25	
	aM (IEC)	Α	10	
Making capacity (RMS value)		А	90	
Breaking capacity at voltage				
	440V	А	72	
	500V	A	72	
	690V	A	71	
Posistance per polo (averaco valuo)	030 v			
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	
		lbin	1.5	
Tightoning torque for coll terminal	max	ווועו	1.0	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	

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**BF0910A024** Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 24VAC, 1NO auxiliary contact

		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			4
		min	mm²	1
	Flowible with insulated anode lug conductor costion	max	mm²	4
	Flexible with insulated spade lug conductor section	min	mm²	1
			mm²	4
Power terminal protec	ction according to IEC/EN 60529	max	111111	IP20 when wire
Mechanical features	cition according to IEC/EN 80529			IP20 when whe
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	362
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	Α	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
Operationa		600V	A	0.2
Operations			oveloc	20000000
Mechanical life			cycles	2000000
Electrical life			cycles	2000000
Safety related data	Ind according to EN/ISO 12490 1			
Ferrormance level B1	0d according to EN/ISO 13489-1	rotod local	ovelas	2000000
		rated load	cycles	2000000
Mirror contate accerd		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating			17	24
Rated AC voltage at 5	ου/ουπζ		V	24

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Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 24VAC, 1NO auxiliary contact

AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	THO/	/000	
	diop-out	min	0/110	20
		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 consu				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	ū		
		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
Max cycles frequency				
Mechanical operation			cycles/h	3600
Mechanical operation			cycles/h	3600
Operating times			cycles/h	3600
			cycles/h	3600
Operating times	in AC		cycles/h	3600
Operating times			cycles/h	3600
Operating times	in AC	min	cycles/h ms	3600 8
Operating times	in AC		ms	
Operating times	in AC Closing NO	min max		8
Operating times	in AC	max	ms ms	8 24
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	ms ms ms ms ms	8 24 10 20 14
Operating times	in AC Closing NO Opening NO Closing NC	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 min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us co	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 Average time for Us co UL technical data	in AC Closing NO Opening NO Closing NC Opening 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 co UL technical data	in AC Closing NO Opening NO Closing NC	max min max min max min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us co 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	8 24 10 20 14 28 7 18 7.6
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC for three-phase AC motor	max min max min max min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us co UL technical data	in AC Closing NO Opening NO Closing NC Opening NC for three-phase AC motor	max min max min max min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 7.6
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC for three-phase AC motor	max min max min max min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 7.6
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC opening NC erformance	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 7.6 0.375
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC opening NC erformance	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 co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Closing NC Opening NC opening NC closing NC closi	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 7.6 0.375
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC opening NC erformance	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms ms HP HP	8 24 10 20 14 28 7 18 7.6 0.375 0.75 2
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Closing NC Opening NC opening NC closing NC closi	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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pole contactor JEC operating current le (AC3) = 9A AC coil 50/60Hz 24V/AC 1NO autiliam

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ic	Three-pole contactor, IEC operating current ie $(AC3) = 9A$ , AC coll 50/60HZ, 24VAC,	INO auxiliary
ION		contact

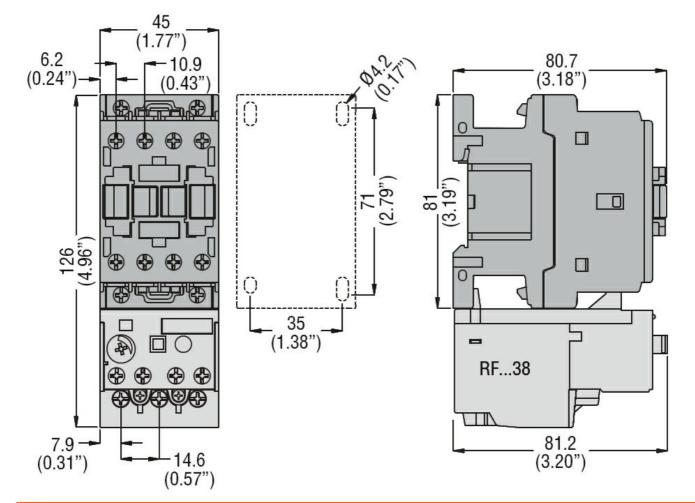
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	А	25
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protect	ction fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	60
Contact rating of a	uxiliary contacts according to UL			A600 - P600
Ambient conditions	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prot	ection			
Pollution degree				3
Dimensions				

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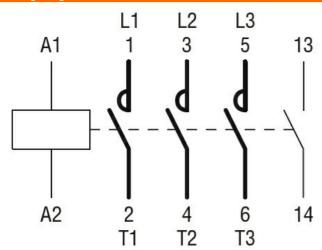
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Wiring diagrams



## Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
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ETIM 8.0

EC000066 -Power contactor, AC switching