BF09T4A024



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 24VAC



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			
Number of poles		nr.	4
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		А	25
Operating current			
	Operational current AC1 (≤40°C)	А	25
	Operational current AC3 (≤440V ≤55°C)	А	9
	Operational current AC4 (400V)	А	4.9
Rated operational power AC1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
Rated operational power AC3 (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
Short-time allowable current for 10s (IEC/EN6	60947-1)	А	150
Protection fuse			
	gG (IEC)	А	25
	aM (IEC)	А	10
Making capacity (RMS value)		А	90
Breaking capacity at voltage			
	Breaking capacity 440V	А	72
	Breaking capacity 500V	А	72
	Breaking capacity 690V	А	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1

Tightening torque for coil terminal

max

lbft

1.5



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24VAC

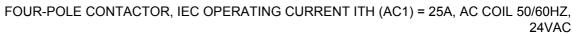
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires s	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor sect	tion		
		min	mm²	1
		max	mm²	4
Power terminal protec	tion according to IEC/EN 60529			IP20 when wire
Auxiliary contact chara	acteristics			
Operational current A	C1 (≤40°C)		А	25
Operating current DC	13			
		110V	А	Screw / DIN rail 35mm
Ambient conditions				
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature		-	-
		min	°C	-60
		max	°Č	80
Max altitude		max	m	3000
Operating position				0000
		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Mounting				35mm
Weight			g	0.362
Operations			3	0.002
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data			0,003	2000000
	0d according to EN/ISO 13489-1			
	00 0000000 10 EN/100 10+00-1	rated load	Cicli	2000000
		mechanical load	Cicli	2000000
Mirror conteta acasad	ng to JEC/EN 600474 4 1		CIUII	
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			

pick-up

%Us 0.8 min

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		max	%Us	1.1
	drop-out		,	
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz	тах	/000	0.00
	pick-up			
	ριοίζαρ	min	%Us	0.85
		max	%Us	1.1
	drop-out	Пах	/000	1.1
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	max	/003	0.00
	-			
	pick-up		0/11-	0.0
		min	%Us	0.8
	draw out	max	%Us	1.1
	drop-out		0/11-	0.0
		min	%Us	0.2
<u> </u>		max	%Us	0.55
AC operating voltage				
	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
		noiuing	٧A	-
Dissipation at holding	≤20°C 50Hz	noiding	W	2.5
Dissipation at holding : DC coil operating	≤20°C 50Hz	Tiolaing		
Dissipation at holding DC coil operating DC rated control voltag		noiding		
DC coil operating		max		
DC coil operating			W	2.5
DC coil operating DC rated control voltag	je	max	W V	2.5 250
DC coil operating DC rated control voltag Max cycles frequency	je	max	W	2.5 250
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations	je	max	W V	2.5 250
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol	max	W V	2.5 250
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC	max	W V	2.5 250
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol	max	W V Cycles/h	2.5 250 3600
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC	max	W V Cycles/h	2.5 250 3600 8
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC Closing NO	max	W V Cycles/h	2.5 250 3600
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC	max min max	W V Cycles/h ms ms	2.5 250 3600 8 24
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC Closing NO	max min max min	W V Cycles/h ms ms ms	2.5 250 3600 8 24 10
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC Closing NO Opening NO	max min max	W V Cycles/h ms ms	2.5 250 3600 8 24
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC Closing NO	max min max min max	W V Cycles/h ms ms ms ms	2.5 250 3600 8 24 10 20
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC Closing NO Opening NO	max min max min max min	W V Cycles/h ms ms ms ms ms	2.5 250 3600 8 24 10 20 14
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	max min max min max	W V Cycles/h ms ms ms ms	2.5 250 3600 8 24 10 20
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ge ontrol in AC Closing NO Opening NO	max min max min max min max	W V Cycles/h ms ms ms ms ms ms	2.5 250 3600 8 24 10 20 14 28
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	max min max min max min max min max min	W V Cycles/h ms ms ms ms ms ms ms	2.5 250 3600 8 24 10 20 14 28 7
DC coil operating DC rated control voltag Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Closing NC	max min max min max min max	W V Cycles/h ms ms ms ms ms ms	2.5 250 3600 8 24 10 20 14 28
DC coil operating DC rated control voltage Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min	W V Cycles/h ms ms ms ms ms ms ms	2.5 250 3600 8 24 10 20 14 28 7
DC coil operating DC rated control voltage Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO Closing NC	max min max min max min max min max	W V Cycles/h ms ms ms ms ms ms ms ms ms ms	2.5 250 3600 8 24 10 20 14 28 7 18
DC coil operating DC rated control voltage Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min max min max	W V Cycles/h ms ms ms ms ms ms ms ms ms	2.5 250 3600 8 24 10 20 14 28 7 18 7.6
DC coil operating DC rated control voltage Max cycles frequency Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max	W V Cycles/h ms ms ms ms ms ms ms ms ms ms	2.5 250 3600 8 24 10 20 14 28 7 18

BF09T4A024 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

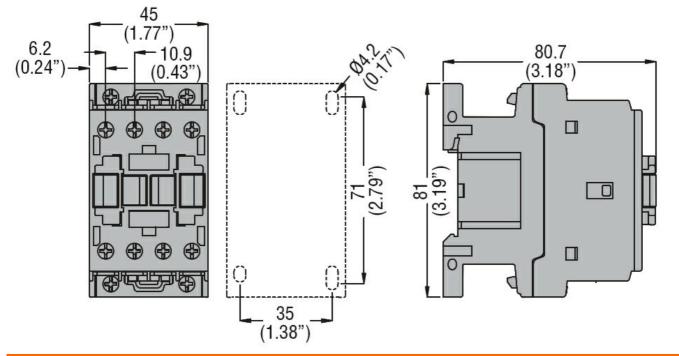


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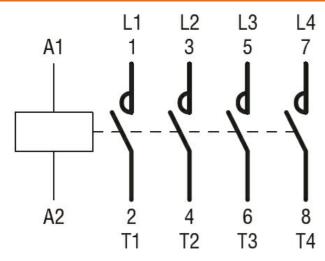
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	for single-phase AC motor	at 110/120V	hp	0.75
		at 230V	hp	2
	for three-phase AC motor			
		at 200/208V	hp	3
		at 220/230V	hp	3
		at 460/480V	hp	5
		at 575/600V	hp	7.5
General USE				
	Contactor			

	AC current	А	25
Other features			
Pollution degree			3
Dimensions			



Wiring diagrams



Certifications and compliance Certifications

CSA C22.2 n° 60947-1

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BF09T4A024 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 24VAC

	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC
ETIM 6 classification	

EC000066 - Power contactor, AC switching

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