BF09T4A048



Product designation

Product type designation

Contact characteristics

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 48VAC



Power contactor **BF09** 4 nr.

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		Α	150
Protection fuse			
	gG (IEC)	А	25
	aM (IEC)	A	10
Making capacity (RMS value)		A	90
Breaking capacity at voltage			- •
Disaming supurity at tollage	Breaking capacity 440V	А	72
	Breaking capacity 500V	A	72
	Breaking capacity 500V	A	72
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)		11132	2.0
i ower dissipation per pole (average value)	Power dissipation pole (average value) Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals	AC3	V V	0.2
rightening torque for terminals		N	1 5
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5

Tightening torque for coil terminal



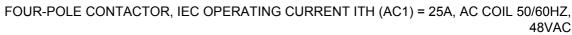
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	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
max number of wires	simultaneously connectable	nr.	2
Conductor section			
	AWG		
	min		16
	max		10
	Flexible w/o lug conductor section		
	min	mm²	1
	max	mm²	6
	Flexible c/w lug conductor section		
	min	mm²	1
	max	mm²	4
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	4
Power terminal protec	ction according to IEC/EN 60529		IP20 when wire
Auxiliary contact char			
Operational current A		А	25
Operating current DC			
			Screw / DIN ra
	110V	А	35mm
Ambient conditions			Comm
Temperature			
remperature	Operating temperature		
	min	°C	-50
		°C	70
	max	C	70
	Storage temperature	°O	<u></u>
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Operating position			
	normal		Vertical plan
	allowable		±30°
Mounting			Screw / DIN ra
5			35mm
Weight		g	0.368
Operations			
Mechanical life		Cycles	20000000
Electrical life		Cycles	2000000
Safety related data		-	
	10d according to EN/ISO 13489-1		
	rated load	Cicli	2000000
	mechanical load	Cicli	20000000
Mirror contate accord	ing to IEC/EN 609474-4-1		yes
EMC compatibility			
AC coil operating			yes
AC operating voltage			
	of 50/60Hz coil powered at 50Hz		

of 50/60Hz coil powered at 50Hz

pick-up

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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			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	
		min	%Us	0.8
		max	%Us	1.1
	drop-out	min	%Us	0.2
			%Us %Us	0.2 0.55
AC operating voltage		max	/005	0.00
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	of 50/60Hz coil powered at 50Hz	in-rush	VA	75
		holding	VA VA	9
	of 50/60Hz coil powered at 60Hz	noiding	VA	5
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	nording	•7 •	0.0
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
DC coil operating				
DC rated control voltage	ge			
	-	max	V	250
Max cycles frequency				
Mechanical operations	3		Cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	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
		max	ms	18
UL technical data) for three phase AC motor			
Full-load current (FLA)) for three-phase AC motor	at 480V	^	7.0
		at 4801/	А	7.6
Yielded mechanical pe	orformanaa	at 600V	A	0.375



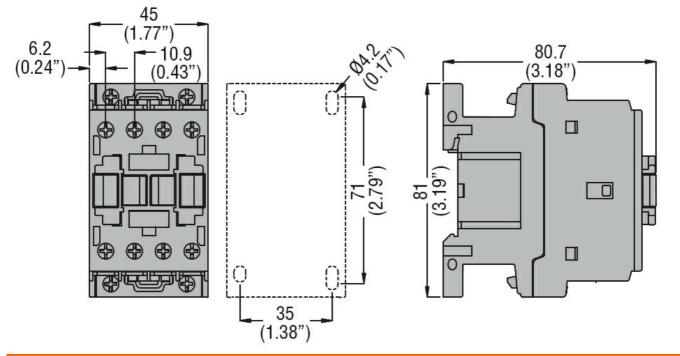


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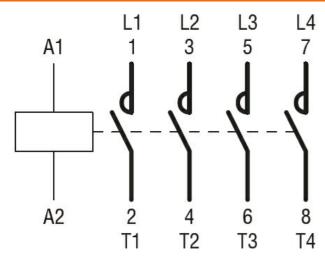
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	for single-phase AC motor			
		at 110/120V	hp	0.75
		at 230V	hp	2
	for three-phase AC motor			
		at 200/208V	hp	3
		at 220/230V	hp	3
		at 460/480V	hp	5
		at 575/600V	hp	7.5
General USE				
	Contactor			

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

EC000066 - Power contactor, AC switching

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