

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 400VAC



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		ΚV	0
Operating frequency		1.1-	0.5
	Operational frequency min	Hz	25
0 6 16 19 1	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	25
Operating current			
	Operational current AC1 (≤40°C)	Α	25
	Operational current AC3 (≤440V ≤55°C)	Α	9
	Operational current AC4 (400V)	Α	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/EN6094		A	150
	7-1)	Α	130
Protection fuse	(IFO)	۸	0.5
	gG (IEC)	A	25
	aM (IEC)	A	10
Making capacity (RMS value)		Α	90
Breaking capacity at voltage			
	Breaking capacity 440V	Α	72
	Breaking capacity 500V	Α	72
	Breaking capacity 690V	Α	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
P	ower 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
		lbft	1.5
	max	IUIL	1.0



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	m	nin	Nm	0.8
	m	ax	Nm	1
	m	nin	lbft	0.8
		ax	Ibft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	AWG			4.0
		in 		16
	Florible w/e lug conductor costion	ax		10
	Flexible w/o lug conductor section	in	mm²	1
	m.	nin av	mm²	1 6
	Flexible c/w lug conductor section	ал	111111	0
		nin	mm²	1
		ax	mm²	4
	Flexible with insulated spade lug conductor section	un.	111111	
	·	nin	mm²	1
		ax	mm²	4
Power terminal protec	tion according to IEC/EN 60529	un.		IP20 when wired
Auxiliary contact chara				II 20 WICH WICG
Operational current AC			Α	25
Operating current DC1	• ,		- , ,	
	110)V	Α	Screw / DIN rail 35mm
Ambient conditions				
Temperature				
	Operating temperature			
	m	nin	°C	-50
		ax	°C	70
	Storage temperature		0.0	
		in	°C	-60
NA ICC I	<u> </u>	ax	°C	80
Max altitude			m	3000
Operating position				
	norm			Vertical plan
	allowab	пе		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.368
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
	rated loa		Cicli	2000000
	mechanical loa	ad	Cicli	20000000
-	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			
	m	nin	%Us	0.8





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		max	%Us	1.1
	drop-out		,,,,,	
	Grop out	min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz	mux	7000	0.00
	pick-up			
	ριοκ-αρ	min	%Us	0.85
		max	%Us	1.1
	drop-out	IIIax	/003	1.1
	αιορ-οαί	min	%Us	0.2
			%Us	0.55
	of COLLE acil reguered at COLLE	max	%08	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
		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			
	01 001 12 0011 powered at 001 12	in-rush	VA	75
		holding	VA	9
Dissipation at holding	<20°C 50H 7	Holding	W	2.5
DC coil operating	320 C 30HZ		VV	2.5
	20			
DC rated control voltage	ge		M	250
Many and a feature		max	V	250
Max cycles frequency			0 1 "	0000
Mechanical operations	5		Cycles/h	3600
Operating times				
Average time for Us of				
	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				
) for three-phase AC motor			
	,	at 480V	Α	7.6
		at 700 V	\sim	
		at 600\/	Α	0.375
Yielded mechanical pe	arformance	at 600V	Α	0.375



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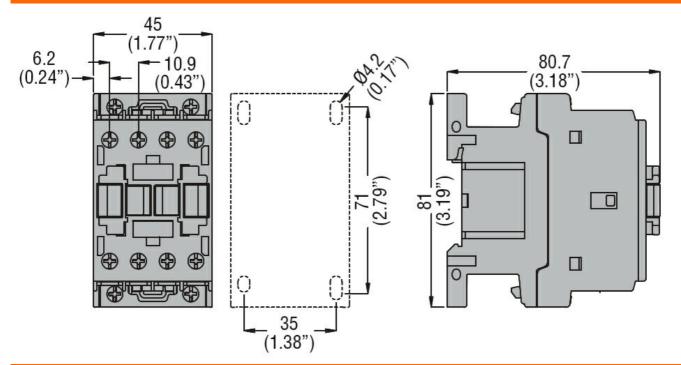
for single-phase AC motor

	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

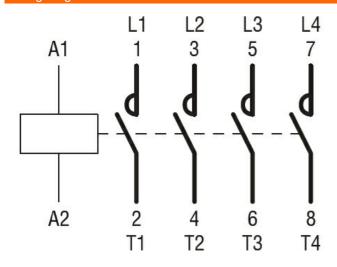
General USE

Contactor

	AC current	Α	25
Other features			
Pollution degree			3
Dimensions			



Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1



ENERGY AND AUTOMATION

BF09T4A400

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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
	FAC

ETIM 6 classification

EC000066 - Power contactor, AC switching