FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 110VAC



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		Α	25
Operating current			
Opera	tional current AC1 (≤40°C)	Α	25
Operational c	urrent AC3 (≤440V ≤55°C)	Α	9
Opera	ational 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/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	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)			
Power dissipation	on pole (average value) Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals			4 =
	min	Nm	1.5
	max	Nm	1.8
	min	lbft lbft	1.1
Tightening torque for coil terminal	max	lbft	1.5



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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			
	ŭ	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	n		
		min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara				ii 20 Wilon Wilod
Operational current A			А	25
Operating current DC				
Operating current DO	10			Screw / DIN rail
		110V	Α	35mm
Ambient conditions				Oomin
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-50
			°C	70
	Storage temperature	max	<u> </u>	70
	Storage temperature	min	°C	-60
		min	°C	
Marratituda		max		80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	0.358
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	Cicli	2000000
		mechanical load	Cicli	20000000
	ing 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			
		min	%Us	0.8





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		max	%Us	1.1
	drop-out			
	1	min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	ριοιι αρ	min	%Us	0.85
		max	%Us	1.1
	drop-out	max	7000	
	drop out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	max	7003	0.00
	·			
	pick-up	min	%Us	0.8
	1	max	%Us	1.1
	drop-out		0/11-	0.0
		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			
	•	in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
DC coil operating				
DC rated control voltage	de			
•		max	V	250
Max cycles frequency			-	
Mechanical operations			Cycles/h	3600
Operating times			C y 0.00, 11	
Average time for Us co	ontrol			
Average uniterior 05 of	in AC			
	Closing NO			
	Closing NO	min	mo	8
			ms	
	Opening NO	max	ms	24
	Opening NO			4.0
		min	ms	10
	01 1 110	max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	0.375
Yielded mechanical pe	erformance			

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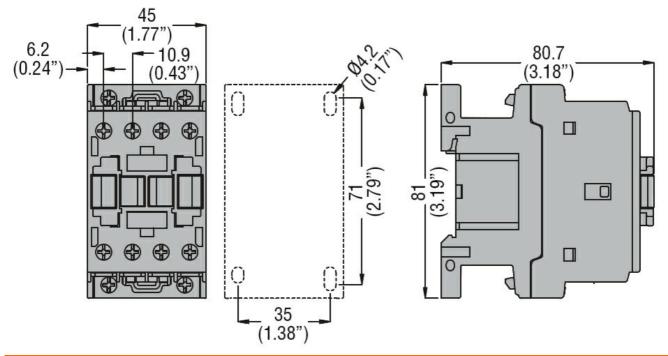
for	sina	le-pl	hase	AC	motor
	oning	. P	IIGOO	, ,,	1110101

	at 110/120V at 230V	hp hp	0.75 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

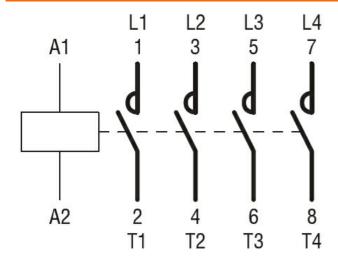
General USE

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

BF09T4A110

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	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