BF09T4A230



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 230VAC



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	0947-1)	А	150
Protection fuse			
	gG (IEC)	А	25
	aM (IEC)	А	10
Making capacity (RMS value)		Α	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			
6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1

Tightening torque for coil terminal

max

lbft

1.5



FOUR-POLE CONTACTOR, II

IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 5	0/60HZ,
	230VAC

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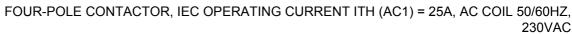
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section			4
		min	mm²	1
	Flavible studies and water as stice	max	mm²	6
	Flexible c/w lug conductor section		······································	4
		min	mm²	1
	Electible with included an electron ended to be a set of a set of a	max	mm²	4
	Flexible with insulated spade lug conductor section		mm ²	1
		min	mm²	1
	tion according to IEC/EN COECO	max	mm²	4 IP20 when wire
	ction according to IEC/EN 60529			IP20 when wire
Auxiliary contact chara			٨	05
Operational current A	• •		A	25
Operating current DC	13			
		110V	А	Screw / DIN rail 35mm
Ambient conditions				551111
Temperature				
remperature	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature	Пах	Ŭ	10
		min	°C	-60
		max	°Č	80
Max altitude		тах	 	3000
Operating position				0000
operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Mounting				35mm
Weight			g	0.356
Operations			3	
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data			,	
	0d according to EN/ISO 13489-1			
	6	rated load	Cicli	2000000
	m	echanical load	Cicli	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		0.00	yes
EMC compatibility				yes
AC coil operating				,
AC operating voltage				
C oporating voltage	of 50/60Hz coil powered at 50Hz			

pick-up

%Us 0.8 min

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Mechanical operation Operating times Average time for Us of UL technical data Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC	min 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 of 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	24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
Operating times Average time for Us o	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
Operating times	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
Operating times	in AC Closing NO Opening NO Closing NC	max min max min	ms ms ms ms	24 10 20 14 28
Operating times	in AC Closing NO Opening NO	max min max min	ms ms ms ms	24 10 20 14
Operating times	in AC Closing NO Opening NO	max min max	ms ms ms	24 10 20
Operating times	in AC Closing NO Opening NO	max min	ms ms	24 10
Operating times	in AC Closing NO	max min	ms ms	24 10
Operating times	in AC Closing NO	max	ms	24
Operating times	in AC Closing NO			
Operating times	in AC			
Operating times	in AC			
Operating times	in AC			
Operating times				
	· · · ·			
mechanical operation				
			Cycles/h	3600
Max cycles frequency	,			
		max	V	250
DC rated control volta				
DC coil operating				
Dissipation at holding	≤20°C 50Hz	noiding	W	2.5
		holding	VA	9
		in-rush	VA	75
	of 60Hz coil powered at 60Hz	noluling	٧A	0.0
		in-rusn holding	VA VA	70 6.5
	of 50/60Hz coil powered at 60Hz	in-rush	VA	70
		holding	VA	9
		in-rush	VA	75
	of 50/60Hz coil powered at 50Hz			
AC operating voltage				
		max	%Us	0.55
	·	min	%Us	0.2
	drop-out			
		max	%Us	1.1
	ρισκ-αρ	min	%Us	0.8
	of 60Hz coil powered at 60Hz pick-up			
		max	%Us	0.55
		min	%Us	0.2
	drop-out			
		max	%Us	1.1
	· ·	min	%Us	0.85
	pick-up			
	of 50/60Hz coil powered at 60Hz	max	/000	0.00
		max	%Us	0.55
	drop-out	min	%Us	0.2
		тах	/000	
		max	%Us	1.1

BF09T4A230 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

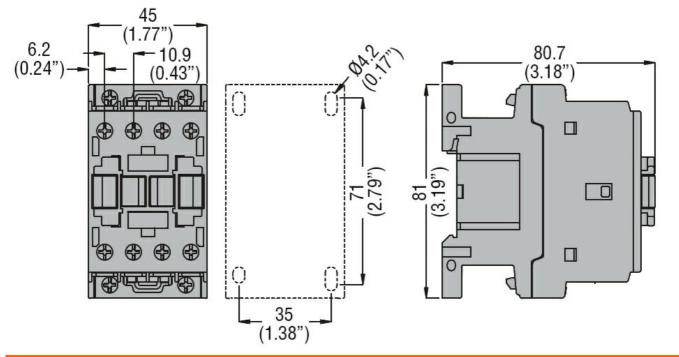


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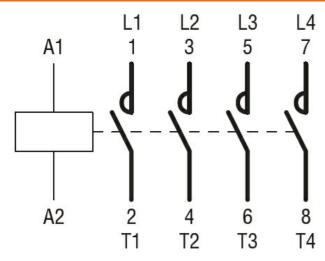
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	for single-phase AC motor	at 110/120V	hp	0.75
		at 230V	, hp	2
	for three-phase AC motor			
		at 200/208V	hp	3
		at 220/230V	hp	3
		at 460/480V	hp	5
		at 575/600V	hp	7.5
General USE				
	Contactor			

	AC current	Α	25
Other features			
Pollution degree			3
Dimensions			



Wiring diagrams



Certifications and compliance Certifications

CSA C22.2 n° 60947-1

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BF09T4A230 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 230VAC

	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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