



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 220VAC, 2NO AND 2NC



Product designation Product type designation			Power contactor BF09
Contact characteristics			D. 00
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	25
Operational current le			
	AC-1 (≤40°C)	Α	25
	AC-1 (≤55°C)	Α	20
	AC-1 (≤70°C)	Α	18
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4.9
Rated operational power AC-1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	25
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	90
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	1.6
	AC-3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
This control of the state of th	max	lbin	1.5
Tightening torque for coil terminal	_		
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
Managed and the first fi	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2



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Conductor section			
	AWG/Kcmil mov		10
	Flexible w/o lug conductor section		10
	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	IP20 when
Power terminal protect	tion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	348
Conductor section			
	AWG/kcmil conductor section		10
Operations	max		10
Mechanical life		cycles	20000000
Electrical life		cycles	2000000
Safety related data		.,	
Performance level B10	Od according to EN/ISO 13489-1		
	rated load	cycles	2000000
	mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1		YES
EMC compatibility			yes
AC coil operating Rated AC voltage at 60		V	220
AC operating voltage	JI IZ	V	220
no operating voltage	of 60Hz coil powered at 60Hz		
	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out		
	min	%Us	20
AC avarage sell serrer	max	%Us	55
AC average coil consu	·		
	of 60Hz coil powered at 60Hz in-rush	VA	75
	holding	VA VA	9
Dissipation at holding :		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co			
	in AC		

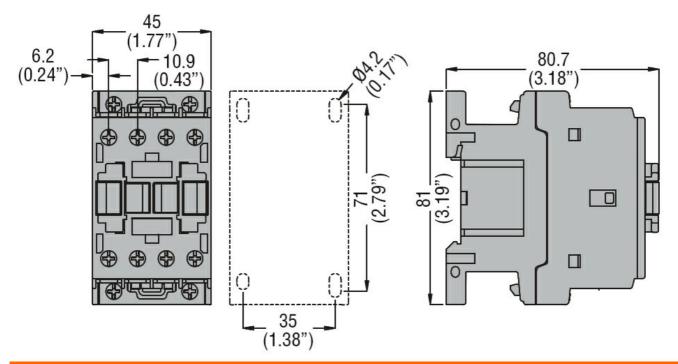




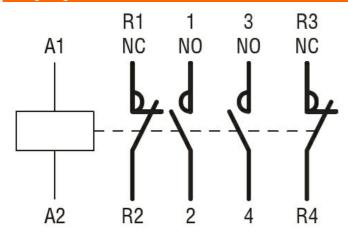
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	Closing NO			
	3 3 3	min	ms	8
		max	ms	24
	Opening NO			
	, ,	min	ms	10
		max	ms	20
	Closing NC			
	Ğ	min	ms	14
		max	ms	28
	Opening NC			
	3 -	min	ms	7
		max	ms	18
UL technical data				
	for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	9
Yielded mechanical per	rformance	ut 000 v	- , ,	
riciaca mediameai per	for single-phase AC motor			
	Tot single phase Ao motor	110/120V	HP	0.8
		230V	HP	2
	for three-phase AC motor	250 V	- ' ''	
	Tot three-phase Ao motor	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE		373/000V	ПЕ	7.5
General USE	Contactor			
	Contactor	A.C. aa.	۸	0.5
Anabiant conditions		AC current	Α	25
Ambient conditions				
Temperature	On the Control of the			
	Operating temperature		0.0	
		min	°C	-50
		max	°C	70
	Storage temperature	,	0 =	••
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protectio	n			
Pollution degree				3
Dimensions				

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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching