

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 400VAC, 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)			
	lth	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 second of	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	ANAICO (IC a real)			
	AWG/Kcmil	nax		10
	Flexible w/o lug conductor section	iax		
	1	min	mm²	1
		nax	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		nax	mm²	4
	Flexible with insulated spade lug conductor section	iux		•
	·	min	mm²	1
	n	nax	mm²	4
Power terminal protec	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
. 0.	nori	mal		Vertical plan
	allowa	ble		±30°
Fixing				Screw / DIN rail 35mm
Veight			g	368
Conductor section	AMO (1 1)			
	AWG/kcmil conductor section	2011		10
Operations	I	nax		10
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
	rated lo		cycles	2000000
Mirror contate coord	mechanical lo	oad	cycles	20000000 YES
EMC compatibility	ing to IEC/EN 609474-4-1			yes
AC coil operating				yes
Rated AC voltage at 5	50/60Hz		V	400
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	_		
		min	%Us	80
	drop-out	nax	%Us	110
	·	min	%Us	20
		nax	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		nax	%Us	110
	drop-out	min	%Us	20
	· · · · · · · · · · · · · · · · · · ·	11111	/003	
			%Us	55
AC average coil cons	n	nax	%Us	55
AC average coil cons	n		%Us	55
AC average coil cons	umption at 20°C	nax ush	%Us VA VA	75 9



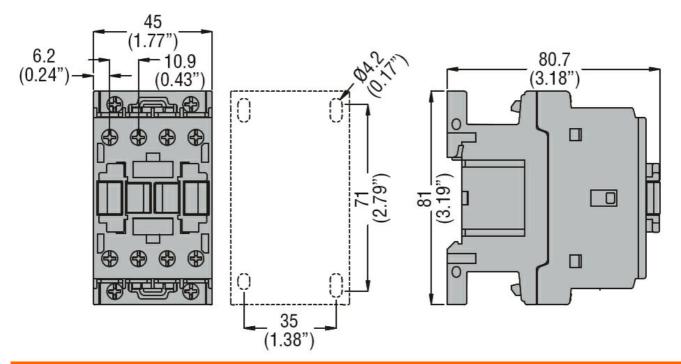


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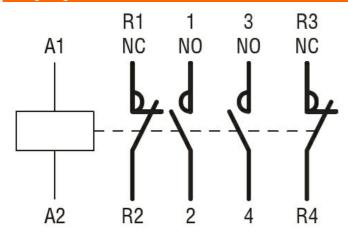
	of 50/60Hz coil powered at 60Hz			_
	,	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	riolaling	***	
	of oor 12 con powered at oor 12	in-rush	VA	75
District of the Life of	400°O FOLL-	holding	VA	9
Dissipation at holding	\$20°C 50HZ		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	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			
	Spanning	min	ms	7
		max	ms	18
UL technical data		тих	1110	10
	for three-phase AC motor			
r dir load odiront (r Ez t	nor times phase he motor	at 480V	Α	7.6
		at 600V	A	9
Yielded mechanical pe	arformana	at 000 v		9
rielueu mechanicai pe				
	for single-phase AC motor	440/400\/	LID	0.0
		110/120V	HP	0.8
	·	230V	HP	2
	for three-phase AC motor			_
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	Α	25
Ambient conditions				
Temperature				
- h	Operating temperature			
	epotating tomporators	min	°C	-50
		max	°C	70
	Storage temperature	IIIdX		10
	Storage temperature	ma:i.a	°C	60
		min	°C	-60
NA 10's - 1		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

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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