

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 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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	15
	48V	Α	13
	75V	Α	12
	110V	Α	6
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	18
	48V	Α	18
	75V	A	17
	110V	A	12
150	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	204 1/	۸	00
	≤24V	A	20
	48V 75V	A	20 20
	110V	A A	15
	220V	A	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		10
TEO THAN CUITCHLIE HT DOT WITH LINES HITS WITH 4 POICS III SELLES	≤24V	Α	20
	48V	A	20
	75V	A	20
	110V	A	16
	220V	A	12
	220 V	, ,	

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IEC max current le in I	DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	·	≤24V	Α	10
		48V	Α	9
		75V	Α	8
		110V	Α	2
		220V	Α	_
IEC max current le in I	DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	≤24V	Α	13
		48V	A	11
		75V	A	10
		110V	A	7
		220V	A	2
IFC many assume at latin.	DC2 DC5 with 1/D < 45ma with 2 males in series	220 V	A	
IEC max current le in i	DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-0.01		
		≤24V	Α	15
		48V	Α	15
		75V	Α	13
		110V	Α	11
		220V	Α	6
IEC max current le in I	DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
		≤24V	Α	15
		48V	Α	15
		75V	Α	15
		110V	Α	12
		220V	Α	7
Short-time allowable c	current for 10s (IEC/EN60947-1)		A	150
Protection fuse	<u> </u>		- , ,	
1 1010011011 1400		gG (IEC)	Α	25
		aM (IEC)	A	10
Making capacity (RMS	value)	aw (ILC)		90
	·			90
Breaking capacity at vo	Jilage	4.40\/	^	70
		440V	A	72
		500V	Α	72
		690V	A	71
Resistance per pole (a			mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	1.6
		AC-3	W	0.2
Tightening torque for to	erminals			
- •		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	Ibin	1.5
Tightening torque for c	coil terminal	Пах		
. Igilioning torque for t		min	Nm	0.8
			Nm	1
		max	Ibin	0.8
		min		
May a make a straige and	impultan agualu agus agtable	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1



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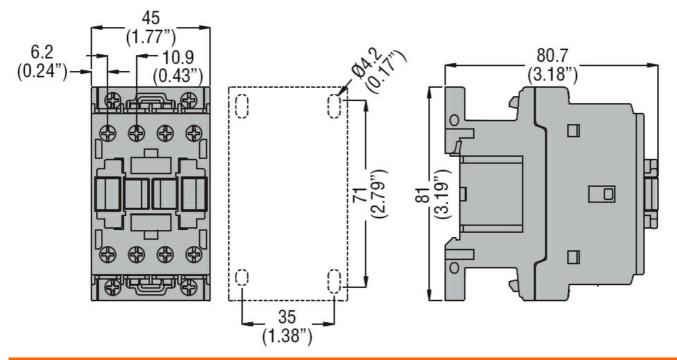
mov	mm²	6
Flexible c/w lug conductor section	mm²	6
min	mm²	1
max	mm²	4
Flexible with insulated spade lug conductor section		
min	mm²	1
max	mm²	4
Power terminal protection according to IEC/EN 60529		IP20 when
		properly wired
Mechanical features		
Operating position		
normal		Vertical plan
allowable		±30°
Fixing		Screw / DIN rail 35mm
Weight	<u> </u>	356
Operations	g	
Mechanical life	cycles	20000000
Electrical life	cycles	2000000
Safety related data	2,0.00	
Performance level B10d according to EN/ISO 13489-1		
rated load	cycles	2000000
mechanical load	cycles	20000000
EMC compatibility		yes
AC coil operating		
Rated AC voltage at 50/60Hz	V	230
AC operating voltage		
of 50/60Hz coil powered at 50Hz		
pick-up		
min	%Us	80
max	%Us	110
drop-out	%Us	20
min	%Us %Us	55
of 50/60Hz coil powered at 60Hz	/003	33
pick-up		
min	%Us	85
max		110
drop-out	-	
, min	%Us	20
max	%Us	55
AC average coil consumption at 20°C		
of 50/60Hz coil powered at 50Hz		
in-rush		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	١/٨	75
in-rush holding	VA VA	75 9
Dissipation at holding ≤20°C 50Hz	W	2.5
Max cycles frequency	V V	۷.۵
Mechanical operation	cycles/h	3600
modifical operation	Oy OlO3/11	

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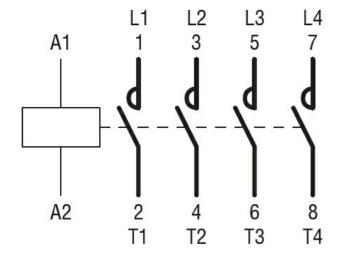
Operating times				
Average time for Us	control			
3	in AC			
	Closing NO			
	3	min	ms	8
		max	ms	24
	Opening NO			
	1 3	min	ms	10
		max	ms	20
	Closing NC			
	· ·	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Rated operational vo			V	600
Full-load current (FL/	A) for three-phase AC motor		· 	
		at 480V	Α	7.6
		at 600V	Α	9
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	0.75
		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
Short-circuit protection	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
Ambient conditions				
Temperature	_			
	Operating temperature			
		min	°C	-50
	-	max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
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