



Product designation			Power contactor
Product type designation Contact characteristics			BF09
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp		kV	6
Operational frequency		KV	0
Operational frequency	min	LJ- ₇	25
	min	Hz Hz	400
IEC Conventional free air thermal current Ith	max	A	25
Operational current le			
Operational current le	AC-1 (≤40°C)	۸	25
	AC-1 (≤40 C) AC-1 (≤55°C)	A A	20
	AC-1 (≤33 C) AC-1 (≤70°C)	A	18
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	9
	AC-3 (3440 V 355 C) AC-4 (400 V)	A	4.9
Rated operational power AC-1 (T≤40°C)	AO-4 (400V)		4.3
Nated operational power AC-1 (1340 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	030 V	KVV	
TEO max current le in DOT with E/N = mis with 1 poles in series	≤24V	Α	15
	48V	A	13
	75V	A	12
	110V	A	6
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201	- / (
TEO THAN OUTFOIL TO IT BOT WILL ETC = THIS WILL 2 POICS IT SOLIOS	≤24V	Α	18
	48V	A	18
	75V	Α	17
	110V	A	12
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201	,,	<u>.</u>
120 max carrent to in 201 mai 2/1 = this mai o polos in conco	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	15
	220V	Α	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
, , , , , , , , , , , , , , , , , , , ,	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	Α	12



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, DC COIL, 12VDC

IEC max current le in 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 DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
The max surrent to in 200 200 mar 2/10 Tomo mar 2 poice in solid	≤24V	Α	13
	48V	A	11
	75V	A	10
	110V	A	7
	220V	A	2
IEC may current to in DC2 DC5 with L/D < 15mg with 2 notes in series	220 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<0.4) /	^	4.5
	≤24V	A	15
	48V	A	15
	75V	Α	13
	110V	Α	11
	220V	Α	6
IEC max current le in 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 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)	000 V	mΩ	2.5
Power dissipation per pole (average value)		11122	2.0
Tower dissipation per pole (average value)	Ith	W	1.6
		W	
Tightoning torque for terminals	AC-3	VV	0.2
Tightening torque for terminals		N 1	4.5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		10
Flexible w/o lug conductor section			
	min	mm²	1
	·		





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	max	mm²	6
	Flexible c/w lug conductor section	2	
	min	mm²	1
	Elevible with insulated angle lug conductor section	mm²	4
	Flexible with insulated spade lug conductor section min	mm²	1
	max	mm²	4
		1111	IP20 when
Power terminal protect	ion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
Woight			35mm 492
Weight Conductor section		g	734
CONTRACTOR SECTION	AWG/kcmil conductor section		
	max		10
Operations	That		
Mechanical life		cycles	20000000
Electrical life		cycles	2000000
Safety related data		.,	
	0d according to EN/ISO 13489-1		
	rated load	cycles	2000000
	mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1		yes
EMC compatibility			yes
DC coil operating			
DC rated control voltage	ge	V	12
DC operating voltage			
	pick-up		
	min	%Us	70
	max	%Us	125
	drop-out	0/110	10
	min	%Us %Us	10 40
Average coil consump	max tion <20°C	/005	+∪
Average con consump	in-rush	W	5.4
	holding	W	5.4
Max cycles frequency	noising .		0.1
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co	ontrol		
	in AC		
	Closing NO		
	min	ms	8
	max	ms	24
	Opening NO		
	min	ms	10
	max	ms	20
	Closing NC	,	4.4
	min	ms	14
	max	ms	28

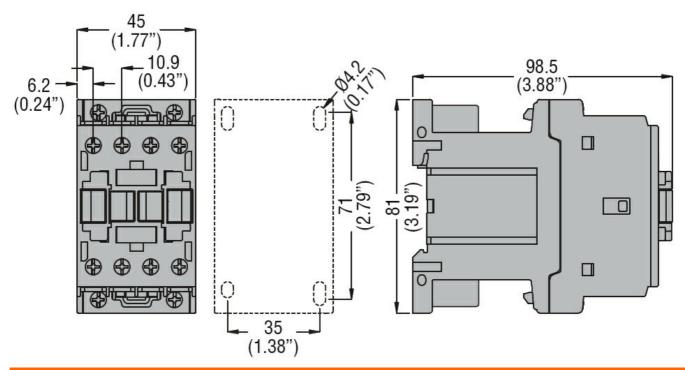




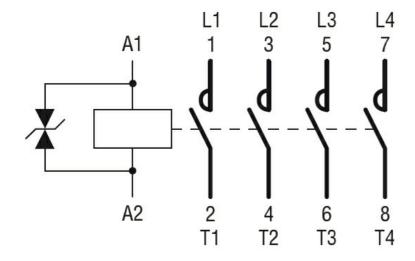
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, DC COIL, 12VDC

	Opening NC			
	-1-3	min	ms	7
		max	ms	18
	in DC	· · · · · · · · · · · · · · · · · · ·		
	Closing NO			
	Closing NO	min	ms	54
	On anima NO	max	ms	66
	Opening NO			4.4
		min	ms	14
		max	ms	17
UL technical data				
Full-load current (FLA) for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	0.375
Yielded mechanical po	erformance			
·	for single-phase AC motor			
	.	110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor			·
	Tot times phase No motor	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
			пг HP	
0		575/600V	ПР	7.5
General USE				
	Contactor	• •		
		AC current	Α	25
Short-circuit protection				
	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			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIaX	-	10
	Storage temperature		°C	60
		min	°C	-60
B.4. 1011		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				





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