



Product designation Product type designation			Power contactor BF09
Contact characteristics			
Number of poles		nr.	3
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	- p - man	Α	25
Operating current			
operating earlier	Operational current AC1 (≤40°C)	Α	25
Ope	erational current AC3 (≤440V ≤55°C)	Α	9
- 1	Operational current AC4 (400V)	Α	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/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	25
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	90
Breaking capacity at voltage			
· · · · ·	Breaking capacity 440V	Α	72
	Breaking capacity 500V	Α	72
	Breaking capacity 690V	Α	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
Powe	r dissipation pole (average value) Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5



		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires simultaneously connectable			nr.	2
Conductor section	•			
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section	max		
	Trexible w/o lag corrector section	min	mm²	1
		max	mm²	6
	Florible c/w lug conductor section	Пах	111111	0
	Flexible c/w lug conductor section	min	mm²	4
		min	mm²	1
	<del></del>	max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
	tection according to IEC/EN 60529			IP20 when wired
Auxiliary contact ch	aracteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1	designation			A600 - P600
Operational current	AC1 (≤40°C)		Α	25
Operating current A				
operating carriers		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current D	)C12	300 V		1.7
Operating current L	0012	110V	۸	E 7
0	2040	1100	Α	5.7
Operating current D	0013	0.01		
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	Α	Screw / DIN rail
				35mm
		125V	Α	0.6
		220V	Α	0.2
		600V	Α	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	·	min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
operating position		normal		Vertical plan
				Vertical plan ±30°
		allowable		
Mounting				Screw / DIN rail
				35mm
Weight			g	0.358



Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1		_	
		rated load	Cicli	2000000
		mechanical load	Cicli	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage	of 50/001  - ooil noward of 501  -			
	of 50/60Hz coil powered at 50Hz pick-up			
	ріск-ир	min	%Us	0.8
		max	%Us	1.1
	drop-out	max	7003	1.1
	arop out	min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz		,,,,,	0.00
	pick-up			
	' '	min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	8.0
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
A O		max	%Us	0.55
AC operating voltage	. ( 50/0011			
	of 50/60Hz coil powered at 50Hz		١/٨	7.5
		in-rush	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	holding	VA	<b>3</b>
	of 50/60Hz coil powered at 60Hz	in-rush	VA	70
		holding	VA VA	70 6.5
	of 60Hz coil powered at 60Hz	Holding	٧٨	0.0
	5. 551 12 5511 powered at 501 12	in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz	19	W	2.5
DC coil operating				
DC rated control voltage	ge			
•	-	max	V	250
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co	ontrol			
-	in AC			
	Closing NO			
	-	min	ms	8
		max	ms	24

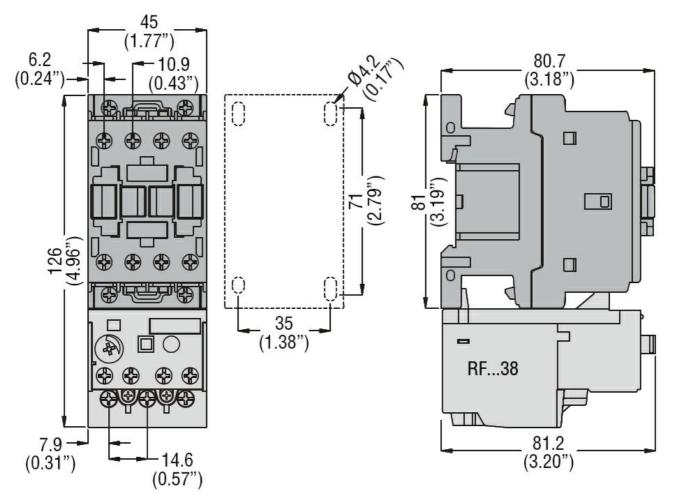




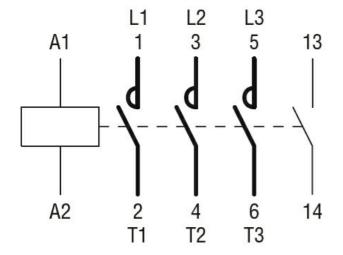
Opening NO			
Opening NO	min	ms	10
Olasia a NO	max	ms	20
Closing NC			4.4
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	7.6
	at 600V	Α	0.375
Yielded mechanical performance			_
for single-phase AC motor			
To remigio prideo rie motor	at 110/120V	hp	0.75
	at 230V	hp	2
for three-phase AC motor	dt 200 v	116	
for three phase Ao motor	at 200/208V	hp	3
	at 220/230V	•	3
		hp	5
	at 460/480V	hp	
	at 575/600V	hp	7.5
Contact rating of auxiliary contacts according to UL			A600 - P600
General USE			
Contactor			
	AC current	Α	25
Other features			
Pollution degree			3
Dimensions			

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT



### Wiring diagrams



#### Certifications and compliance

#### Certifications

CSA C22.2 n° 60947-1

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

5/6



### BF0910A230

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

cULus		
EAC		

ETIM 6 classification

EC000066 - Power contactor, AC switching