



Product designation		Power contactor
Product type designation		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		25
Operational frequency ma		400
Conventional free air thermal current Ith	Α	25
Operating current		
Operational current AC1 (≤40°C	•	25
Operational current AC3 (≤440V ≤55°C	•	9
Operational current AC4 (400V	) A	4.9
Rated operational power AC1 (T≤40°C)		
230\		9.5
400\		16
500\		21
690\	<u>/ kW</u>	27
Rated operational power AC3 (T≤55°C)		
230\		2.2
400\		4.2
415		4.5
440\		4.8
500\		5.5
690\		7.5
Short-time allowable current for 10s (IEC/EN60947-1)	Α	150
Protection fuse		
gG (IEC		25
aM (IEC		10
Making capacity (RMS value)	Α	90
Breaking capacity at voltage	, .	70
Breaking capacity 440		72
Breaking capacity 500\		72
Breaking capacity 690\		71
Resistance per pole (average value)	mΩ	2.5
Power dissipation per pole (average value)	147	4.0
Power dissipation pole (average value) It		1.6
AC: Tightening torque for terminals	3 W	0.2
	n Nim	1.5
mii ma		1.5 1.8
ma mi		1.8
mii ma		1.1 1.5
Tightening torque for coil terminal	וטונ	1.0





		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
may number of wires	aimultanaayaly aannaatabla	max	Ibft	0.74
Conductor section	simultaneously connectable		nr.	
Conductor Section	AWG			
	AWG	min		16
		max		10
	Flexible w/o lug conductor section	Пах		10
	Tionale we lag conductor coolien	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	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - P600
Operational current A			Α	25
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13			
		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		0.0	00
		min	°C	-60
Mayorkita		max	°C	80
Max altitude			m	3000
Operating position		1		Mantiaglalan
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			α	0.366
• • • • • • • • • • • • • • • • • • •			g	0.500





Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	Cicli	2000000
BAC P.	- 1- 1-0/EN 000 474 4 4	mechanical load	Cicli	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility  AC coil operating				yes
AC operating voltage				
rto operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	r r	min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11	0.05
		min	%Us	0.85
	drop-out	max	%Us	1.1
	diop-out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	THOSA.	7000	0.00
	pick-up			
	· ·	min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
10 11		max	%Us	0.55
AC operating voltage	(50/0011 3 1 4 5011			
	of 50/60Hz coil powered at 50Hz	مامد سامنا	١/٨	75
		in-rush holding	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	Holding	v./\	<u> </u>
	5. 50/60112 5011 powered at 50112	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	<u> </u>		
	·	in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
DC coil operating				
DC rated control voltage	ge			
Management		max	V	250
Max cycles frequency			Ovele = "	2600
Mechanical operations Operating times			Cycles/h	3000
Operating times  Average time for Us co	potrol			
Avorage unite for US CC	in AC			
	Closing NO			
	2.009 110	min	ms	8
		max	ms	24

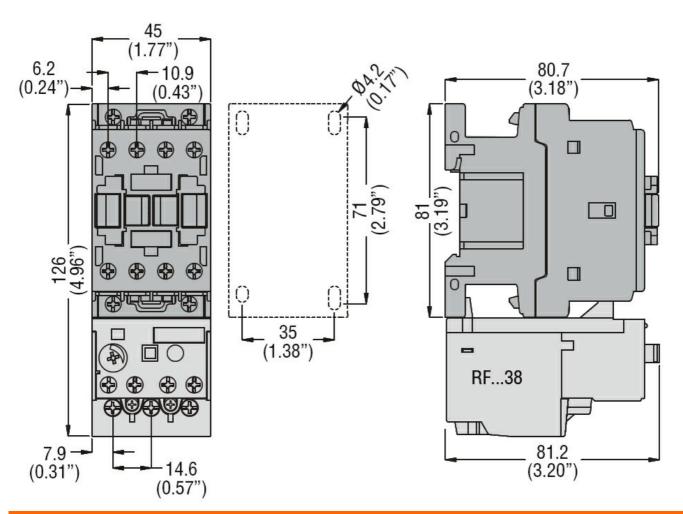




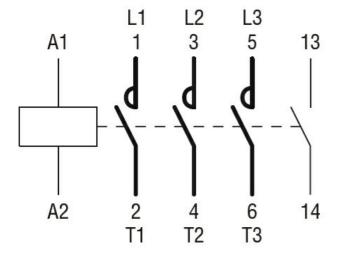
Opening NO			
Opening NO	min	ms	10
Olasia a NO	max	ms	20
Closing NC			4.4
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	7.6
	at 600V	Α	0.375
Yielded mechanical performance			_
for single-phase AC motor			
To 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, 400VAC, 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



### BF0910A400

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT

cULus		
EAC		

ETIM 6 classification

EC000066 - Power contactor, AC switching