

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 24VDC, 1NO AUXILIARY CONTACT



		Power contactor BF09
	nr.	3
	V	690
	kV	6
Operational frequency min	Hz	25
•	Hz	400
	Α	25
Operational current AC1 (≤40°C)	Α	25
•	Α	9
·	Α	4.9
230V	kW	9.5
400V	kW	16
500V	kW	21
690V	kW	27
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)		150
,		
gG (IEC)	Α	25
• , ,	Α	10
,	Α	90
Breaking capacity 440V	Α	72
- · · · · · · · · · · · · · · · · · · ·		72
Breaking capacity 690V	Α	71
<u> </u>	mΩ	2.5
Power dissipation pole (average value) Ith	W	1.6
. , , , , , , , , , , , , , , , , , , ,		0.2
min	Nm	1.5
max		1.8
min	lbft	1.1

	400V 500V 690V 230V 400V 415V 440V 500V 690V 47-1) GG (IEC) aM (IEC) Breaking capacity 440V Breaking capacity 500V Breaking capacity 690V Power dissipation pole (average value) Ith AC3 min max	V kV Operational frequency min Operational frequency max Hz A Operational current AC1 (≤40°C) A Operational current AC3 (≤440V ≤55°C) A Operational current AC4 (400V) A 230V kW 400V kW 500V kW 690V kW 440V kW 415V kW 440V kW 500V kW 690V kW 47-1) G (IEC) A aM (IEC) A A Breaking capacity 440V A Breaking capacity 500V A Breaking capacity 690V A Breaking capacity 690V A Breaking capacity 690V A M Ω Power dissipation pole (average value) Ith AC3 W





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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	s simultaneously connectable		nr.	2
Conductor section	•			
	AWG			
	,	min		16
		max		10
	Flexible w/o lug conductor section	max		10
	Ticklible w/o lag conductor section	min	mm²	1
		max	mm²	6
	Florible of white conductor agation	IIIdx	111111	0
	Flexible c/w lug conductor section	min	mm²	4
		min	mm²	1
	Electrical State Land Land Land Land Land Land Land	max	mm²	4
	Flexible with insulated spade lug conductor section			4
		min	mm²	1
		max	mm²	4
	ection according to IEC/EN 60529			IP20 when wired
Auxiliary contact cha	racteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d	esignation			A600 - P600
Operational current A	AC1 (≤40°C)		Α	25
Operating current AC				
3		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating ourrent DO	212	300 V		1.4
Operating current DO	512	440)/	Λ.	<i>-</i> 7
0 11 10	240	110V	Α	5.7
Operating current DO	213			
		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	A	1.2
Ambient conditions		300 7		
Temperature				
remperature	Operating temperature			
	Operating temperature		°C	FO
		min	°C	-50 -70
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			~	0.5
Weight			g	0.0





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Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
Performance level B10	d 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
DC coil operating				
DC rated control voltage	ge			
		min	V	6
		max	V	250
DC operating voltage				
	pick-up			
		min	%Us	0.8
	-	max	%Us	1.10
	drop-out		0/17	0.4
		min	%Us	0.1
Avenage and comment	- <00°C	max	%Us	0.40
Average coil consuption	on ≤∠u*C		14/	0.4
		in-rush	W	2.4
Max cycles frequency		holding	W	2.4
Mechanical operations			Cycles/h	3600
Operating times			Cycles/II	3000
Average time for Us co	ontrol			
Average time for 03 cc	in AC			
	Closing NC			
	Closing Ite	min	ms	14
		max	ms	28
	Opening NC			
	, ,	min	ms	7
		max	ms	18
	in DC			
	Closing NO			
		min	ms	75
		max	ms	91
	Opening NO			
		min	ms	15
		max	ms	19
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	A	7.6
· · · · · · · · · · · · · · · · · · ·	,	at 600V	Α	0.375
Yielded mechanical pe				
	for single-phase AC motor			0.75
		at 110/120V	hp	0.75
	for the contract of the contra	at 230V	hp	2
	for three-phase AC motor			0
		at 200/208V	hp	3
		at 220/230V	hp	3
		at 460/480V	hp	5
		at 575/600V	hp	7.5

ENERGY AND AUTOMATION

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Contact rating of auxiliary contacts according to UL

A600 - P600

General USE

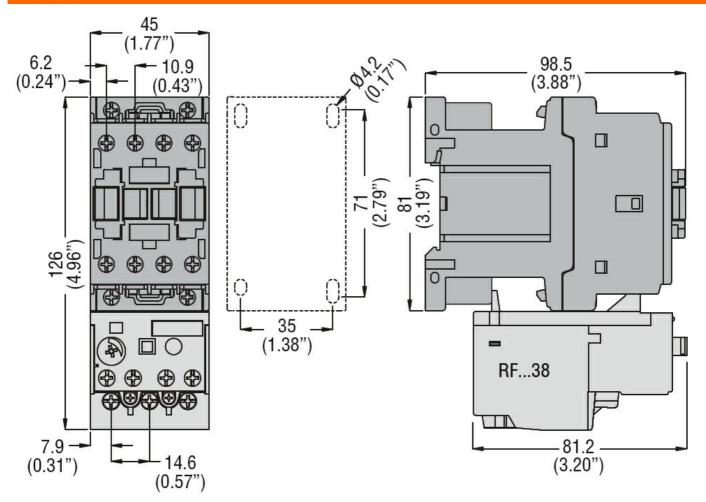
Contactor

AC current A 25

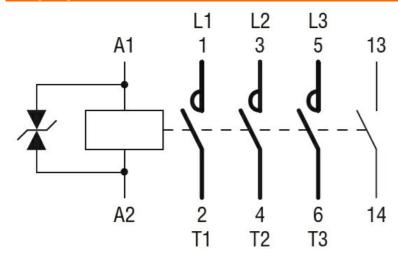
Other features
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Certifications



BF0910L024

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	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
	cULus
	EAC

ETIM 6 classification
EC000066 - Power contactor, AC switching