



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
may number of wires	aimultan aqualy agan agtable	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
Moveeltherda		max	°C	80
Max altitude			m	3000
Operating position		استنسمير		Montinal class
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			α	0.362
• • • • • • • • • • • • • • • • • • •			g	0.502



Operations Machanical life			Cycles	2000000
Mechanical life Electrical life			Cycles	20000000
Safety related data			Cycles	2000000
-	Od according to EN/ISO 13489-1			
r on on mando lovor Bro	ou descraing to Envise to less t	rated load	Cicli	2000000
		mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility	-			yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out		0/11	
		min	%Us	0.2
	of FO/SOUT poil powered at SOUT	max	%Us	0.55
	of 50/60Hz coil powered at 60Hz pick-up			
	ріск-ар	min	%Us	0.85
		max	%Us	1.1
	drop-out	mex	7000	
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
	-t F0/001	holding	VA	9
	of 50/60Hz coil powered at 60Hz	in-rush	VA	70
		holding	VA VA	70 6.5
	of 60Hz coil powered at 60Hz	noiding	٧٨	0.0
	or soriz con powered at ouriz	in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz	9	W	2.5
DC coil operating				
DC rated control voltag	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

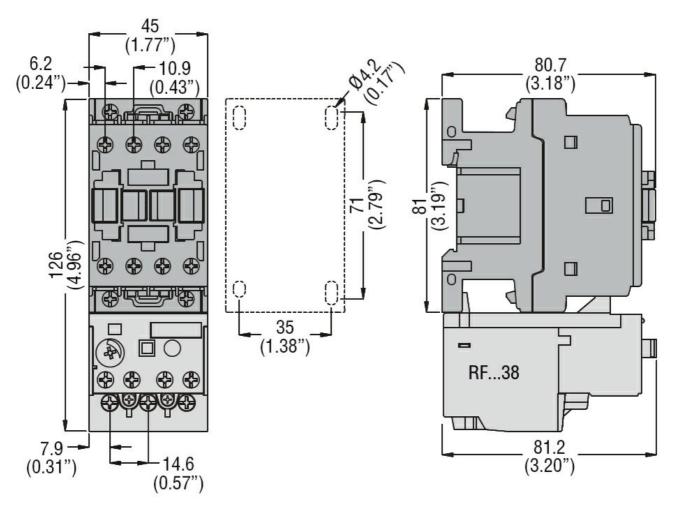




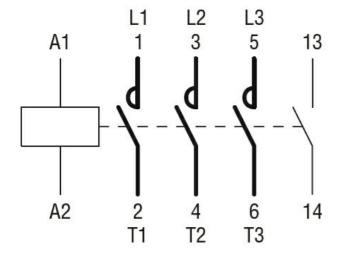
Opening NO			
	min	ms	10
	max	ms	20
Closing NC			
	min	ms	14
	max	ms	28
Opening NC			
· ·	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
· , ,	at 480V	Α	7.6
	at 600V	Α	0.375
Yielded mechanical performance			
for single-phase AC motor			
3 1	at 110/120V	hp	0.75
	at 230V	hp	2
for three-phase AC motor		<u> </u>	
•	at 200/208V	hp	3
	at 220/230V	hp	3
	at 460/480V	hp	5
	at 575/600V	hp	7.5
Contact rating of auxiliary contacts according to UL	<u>` -</u>	•	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, 24VAC, 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



## BF0910A024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

cULus	
EAC	

ETIM 6 classification

EC000066 - Power contactor, AC switching