



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	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	25
Operating current			
	Operational current AC1 (≤40°C)	Α	25
	Operational current AC3 (≤440V ≤55°C)	Α	9
	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) A			150
Protection fuse			
	gG (IEC)	Α	25
	aM (IEC)	Α	10
Making capacity (RMS value)		A	90
Breaking capacity at voltage			
	Breaking capacity 440V	Α	72
	Breaking capacity 500V	Α	72
	Breaking capacity 690V	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Power 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	Ibft	1.5



		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
may number of wires	simultaneously connectable	тиах	nr.	2
Conductor section	Simultaneously connectable		1111.	
Conductor section	1110			
	AWG	_		
		min		16
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Florible with insulated and do live and vater and tion	Шах	111111	- 1
	Flexible with insulated spade lug conductor section		2	4
		min	mm²	1
		max	mm²	4
	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact char	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operational current A			Α	25
Operating current AC				
Operating current AC	113	0001/	۸	0
		230V	Α	3
		400V	Α	1.9
		500V	A	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
				Screw / DIN rail
		110V	Α	35mm
		125V	Α	0.6
		220V	A	0.2
A I I I A I I I I I I I I I I I I I I I		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		Vortical plan
				Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.358
			9	3.000



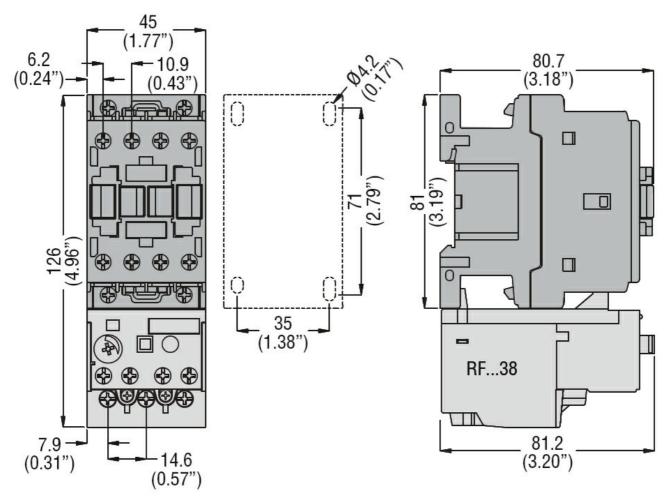
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	Cicli	2000000
BAC P.		mechanical load	Cicli	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				yes
AC operating voltage				
rto operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	1 3 31	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/!!	0.05
		min	%Us	0.85
	drop-out	max	%Us	1.1
	drop-out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	THEX.	7000	0.00
	pick-up			
	• •	min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage	6-0/0011			
	of 50/60Hz coil powered at 50Hz			75
		in-rush	VA VA	75 0
	of 50/60Hz coil powered at 60Hz	holding	VA	9
	or 30/00112 con powered at 00112	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	Holding	*, 1	
		in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz	<u> </u>	W	2.5
DC coil operating				
DC rated control voltaç	ge			
		max	V	480
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO	min	me	8
		max	ms ms	24
		IIIdX	1113	47



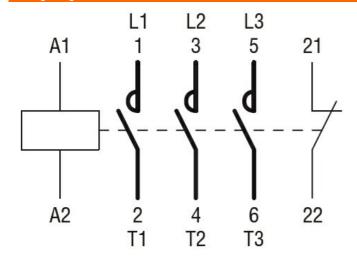


Opening NO			
	min	ms	10
	max	ms	20
Closing NC			
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
, , , , , , , , , , , , , , , , , , , ,	at 480V	Α	7.6
	at 600V	Α	0.375
Yielded mechanical performance			-
for single-phase AC motor			
g pg	at 110/120V	hp	0.75
	at 230V	hp	2
for three-phase AC motor			
р. на верения вер	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	at 07 0/000 v	ı ıp	A600 - P600
General USE			71000 1 000
Contactor			
Contactor	AC current	Α	25
Other features	AC current		20
			3
Pollution degree			J
Dimensions			





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



BF0901A110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT

CCC			
cULus			
EAC			

ETIM 6 classification

EC000066 - Power contactor, AC switching