



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			21 00
		Nr.	3
Number of poles		V	
Rated insulation voltage Ui IEC/EN			690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	25
Operational current le			
	AC-1 (≤40°C)	Α	25
	AC-1 (≤55°C)	Α	20
	AC-1 (≤70°C)	Α	18
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	A	4.9
Detect energianal nervey AC 2 (T <f5°c)< td=""><td>AC-4 (400V)</td><td><u> </u></td><td>4.3</td></f5°c)<>	AC-4 (400V)	<u> </u>	4.3
Rated operational power AC-3 (T≤55°C)	0001/		0.0
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
The max carrent to in Bot with Ent = time with a polocial conse	≤24V	Α	15
	48V		13
	75V	A	
		A	12
	110V	A	6
	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	18
	48V	Α	18
	75V	Α	17
	110V	Α	12
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
,	≤24V	Α	20
	48V	Α	20
	75V	A	20
	110V	A	15
	1100	^	10

	220V	Α	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	Α	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		· · · · · · · · · · · · · · · · · · ·	
	≤24V	Α	10
	48V	Α	9
	75V	Α	8
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max current te in boo-boo with bit 2 forms with 2 poles in series	≤24V	Α	13
	48V		
	46 V 75 V	A	11
		A	10
	110V	A	7
IFC was a summent to in DC2 DC5 with L/D < 45 and with 2 and a few and a	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-0.01	Δ.	4.5
	≤24V	A	15
	48V	A	15
	75V	Α	13
	110V	Α	11
	220V	A	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	15
	48V	Α	15
	75V	Α	15
	110V	Α	12
	220V	Α	7
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			
	440V	Α	72
	500V	Α	72
	690V	Α	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals	7.00	V V	U. <u>L</u>
rightering torque for terminale	min	Nm	1.5
		Nm	1.8
	max	lbin	1.0
	min	lbin	
Timbtoning town to favoral towns in al	max	IDIN	1.5
Tightening torque for coil terminal		N.L.	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8

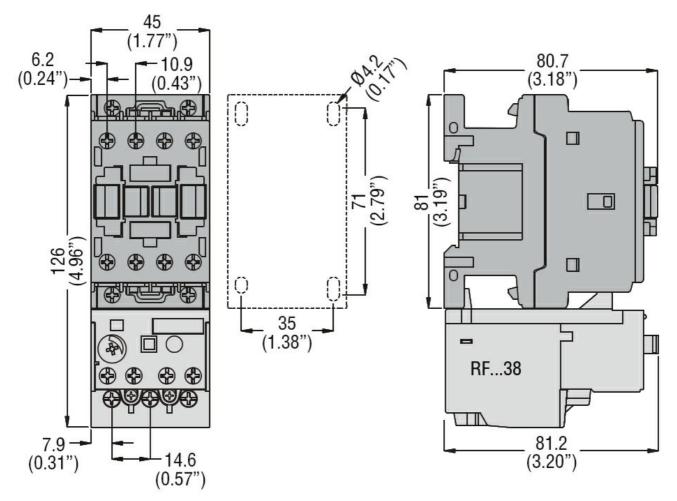
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
	Clavible aby the soundinator anglism	max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		min max	mm²	4
	Flexible with insulated spade lug conductor section		111111	7
	Tiexible with insulated space rag conductor section	, min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	360
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics		•	4.0
Thermal current Ith	elementing		Α	10
IEC/EN 60947-5-1 de				A600 - P600
Operating current AC	15	2201/	۸	2
		230V 400V	A A	3 1.9
		500V	A	1.4
Operating current DC	12	300 V		1.7
operating durient Bo	12	110V	Α	5.7
Operating current DC	13	1101		0.1
operaning carrent 2 c	. •	24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	Α	1.25
		125V	Α	1.1
		220V	Α	0.55
		600V	Α	0.2
Operations				222222
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data	Od according to EN/ISO 12490 4			
renormance level B1	0d according to EN/ISO 13489-1	rated load	ovoloo	2000000
	r	rated load mechanical load	cycles cycles	2000000
Mirror contate accordi	ng to IEC/EN 609474-4-1	nochanical idau	Cycles	
EMC compatibility	119 to 120/214 003-7 4-4-1			yes yes
AC coil operating				y 0.3
Rated AC voltage at 5	50/60Hz		V	24
			•	- ·

AC operating voltage					
	of 50/60Hz coil pow	ered at 50Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil pow				
		pick-up		0/11-	0.5
			min	%Us	85
		drop out	max	%Us	110
		drop-out	min	%Us	20
			max	%Us	55
AC average coil consu	imption at 20°C		IIIax	/003	
no average con consc	of 50/60Hz coil pow	varad at 50Hz			
	or Joydon iz Coll pow	ordu at JULIZ	in-rush	VA	75
			holding	VA	9
	of 50/60Hz coil pow	vered at 60Hz	Holding	٧,١	<u> </u>
	3. 33,301 12 0011 pow	5.54 at 551 12	in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil powere	ed at 60Hz	9		
			in-rush	VA	75
			holding	VA	9
Dissipation at holding	≤20°C 50Hz			W	2.5
DC coil operating					
Average coil consump	tion ≤20°C				
			in-rush	W	5.4
			holding	W	2.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			_
			min	ms	8
		On anima NO	max	ms	24
		Opening NO	min	 .	10
			min	ms ms	10 20
		Closing NC	max	ms	20
		Closing NC	min	ms	14
			max	ms	28
		Opening NC	IIIdx	1113	20
		Opening 140	min	ms	7
			max	ms	, 18
UL technical data			Hux		
Full-load current (FLA)	for three-phase AC r	notor			
	,	-	at 480V	Α	7.6
			at 600V	Α	0.375
Yielded mechanical pe	erformance				<u>=</u>
2.2	for single-phase AC	motor			
	G F		110/120V	HP	0.75
			-		

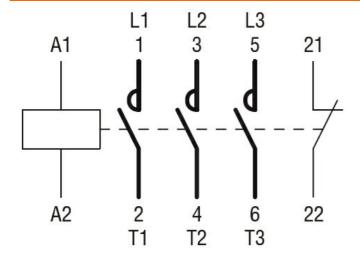


		0001		
		230V	HP	2
	for three-phase AC motor			
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	Α	25
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
Contact rating of auxili	ary contacts according to UL			A600 - P600
Ambient conditions	,			
Temperature				
1	Operating temperature			
	, 5 ,	min	°C	-50
		max	°C	70
	Storage temperature			
	g- 10p-0.010.0	min	°C	-60
		max	°C	80
Max altitude		THEX.		3000
Resistance & Protection	on			
Pollution degree			_	3
Dimensions				<u> </u>
Difficitions -				

Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 24VAC, 1NC auxiliary contact



Wiring diagrams



Certifications and compliance

Compliance

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

Certificates



BF0901A024

Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 24VAC, 1NC auxiliary contact

CCC			
cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching