



Product designation			Power contactor
Product type designation Contact characteristics			BGF09
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ιτν	0
operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	тах	A	20
Operational current le			20
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-1 (T≤40°C)	- ( /		
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
·	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	Α	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2



IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	-
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series	220 V	~	_
$EC$ max current le in $DC3$ - $DC3$ with $E/R \le 15$ ms with 5 poles in series	<241	۸	10
	≤24V	A	10
	48V	A	10
	75V	A	6
	110V	А	5
	220V	A	0,8
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	≤24V	А	10
	48V	Α	10
	75V	Α	6
	110V	А	5
	220V	А	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	А	10
Making capacity (RMS value)	- ( - )	А	92
Breaking capacity at voltage			-
	440V	А	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	0001	mΩ	10
Power dissipation per pole (average value)		11152	10
rower dissipation per pole (average value)	146	14/	4
	Ith	W	4
The first first first first first first	AC-3	W	0.81
Tightening torque for terminals	<u>.</u>		
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Max number of wires simultaneously connectable		Nr.	2
Conductor section		-	
AWG/Kcmil			
	max		12
Flexible w/o lug conductor section	Παλ		16
I IEVINIE MAD INA CONTROLOU SECTION	min	mm²	0.75
	11111	11111	0.75

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## **11BGF09T4A12060** FOUR-POLE CONTACTOR, AC COIL 60HZ, 120VAC, FASTON TERMINALS

				0.5
		max	mm²	2.5
	Flexible c/w lug conductor section	min	mm <sup>2</sup>	1 5
		min max	mm² mm²	1.5 2.5
	Flexible with insulated spade lug conductor			2.0
	The shore with insulated space by conduct	min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
			-	35mm
Weight			g	180
Conductor section	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics	IIIdA		12
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600
Operations	<u> </u>			
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				100
Rated AC voltage at 6	UHZ		V	120
AC operating voltage	of 60Hz poil powered at 60Hz			
	of 60Hz coil powered at 60Hz pick-up			
	ρισκ-αρ	min	%Us	75
		max	%Us	115
	drop-out	max		
	•	min	%Us	20
		max	%Us	55
AC average coil consu	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz		174	05
		in-rush	VA	25
	of 60Hz coil powered at 60Hz	holding	VA	3
	of 60Hz coil powered at 60Hz	in-rush	VA	30
		holding	VA VA	4
Dissipation at holding	≤20°C 50Hz	noiding		0.95
Max cycles frequency				
Mechanical operation			cycles/h	3600
			,	

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ENERGY AND AUTOMATION

ontrol					· · · · · · · · · · · · · · · · · · ·
ontrol					
in AC					
	Closing NO				
		min	ms	12	
		max	ms	21	
	Opening NO				
		min	ms	9	
		max	ms	18	
	Closing NC				
		min	ms	17	
		max	ms	26	
	Opening NC				
		min	ms	7	
		max	ms	17	
in DC					
	Closing NO				
	0	min	ms	18	
	Opening NO			-	
		min	ms	2	
	Closing NC			-	
	eleeling ite	min	ms	3	
	Opening NC	max	mo	0	
	oponing i to	min	ms	11	
		THOX.	inio		
for three-phase AC	motor				
		at 480\/	Δ	7.6	
rformance		at 000 v	Λ	0.1	
	\C motor				
for single-phase F		110/1201/		0.5	
for the second second	0	230V	ΗΥ	1.D	
for three-phase A	C motor	000/000/		0	
		575/600V	HP	5	
Contactor					
		AC current	Α	20	
fuer 0001/					
fuse, 600V					
High fault					
		Short circuit current	kA	100	
		Short circuit current Fuse rating	kA A	100 30	
High fault		Fuse rating		30	
		Fuse rating Fuse class	A	30 J	
High fault		Fuse rating Fuse class Short circuit current	A kA	30 J 5	
High fault		Fuse rating Fuse class	A	30 J	
	rformance for single-phase A	Closing NC Opening NC in DC Closing NO Opening NO Closing NC Opening NC	In DC Closing NO min max Opening NC min max Opening NC min max Denoise NO min max in DC Closing NO min max Opening NO min max Closing NC min max Closing NC min max Opening NC min max Opening NC min max Max diagonal dia	MaxmaxmsOpening NOminmsmaxmsmaxClosing NCminmsMaxmsmaxOpening NCminmsin DCClosing NOminClosing NOminmsMaxmsmaxOpening NOminmsMaxmsmaxOpening NOminmsMaxmsmaxOpening NOminmsMaxmsmaxOpening NCminmsMaxmsmaxMaxms	Max ms 21   Min ms 9   max ms 18   Closing NC min ms 17   Max ms 26 min ms 26   Opening NC min ms 7 max ms 26   Max ms 7 max ms 17 1   in DC Closing NO min ms 25 1

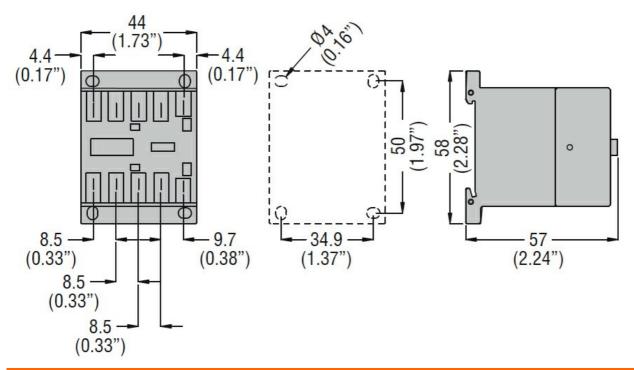


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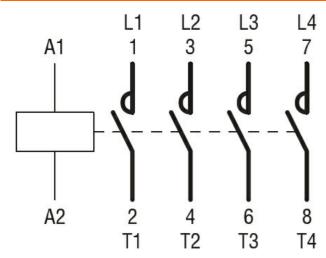
FOUR-POLE CONTACTOR, AC COIL 60HZ, 120VAC, FASTON TERMINALS

Operating temperature				
	min	°C	-50	
	max	°C	+70	
Storage temperature				
	min	°C	-60	
	max	°C	+80	
Max altitude		m	3000	
Resistance & Protection				
Pollution degree			3	
Dimensions				

Dimensions



Wiring diagrams



## Certifications and compliance

CSA C22.2 n° 60947-4-1 IEC/EN 60947-1			
IEC/EN 60947-1	CSA C22.2 n° 60947-1		
	CSA C22.2 n° 60947-4-1		
IEC/EN 60947-4-1	IEC/EN 60947-1		
	IEC/EN 60947-4-1		



	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching