



Product designation Power contactor Product type designation BGF09

Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency  IEC Conventional free air thermal current Ith Operational current le  AC-3  Rated operational power AC-1 (T≤40°C)	min max AC-1 (≤40°C) AC-1 (≤55°C)	Nr. V kV Hz Hz	4 690 6 25 400 20
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency  IEC Conventional free air thermal current Ith Operational current le  AC-3  Rated operational power AC-1 (T≤40°C)	max  AC-1 (≤40°C) AC-1 (≤55°C)	V kV Hz Hz A	690 6 25 400
Rated impulse withstand voltage Uimp  Operational frequency  IEC Conventional free air thermal current Ith  Operational current le  AC-3  Rated operational power AC-1 (T≤40°C)	max  AC-1 (≤40°C) AC-1 (≤55°C)	kV Hz Hz A	6 25 400
Operational frequency  IEC Conventional free air thermal current Ith  Operational current le  AC-3  Rated operational power AC-1 (T≤40°C)	max  AC-1 (≤40°C) AC-1 (≤55°C)	Hz Hz A	25 400
IEC Conventional free air thermal current Ith  Operational current le  AC-3  Rated operational power AC-1 (T≤40°C)	max  AC-1 (≤40°C) AC-1 (≤55°C)	Hz A	400
Operational current le  AC-3  Rated operational power AC-1 (T≤40°C)	max  AC-1 (≤40°C) AC-1 (≤55°C)	Hz A	400
Operational current le  AC-3  Rated operational power AC-1 (T≤40°C)	AC-1 (≤40°C) AC-1 (≤55°C)	Α	
Operational current le  AC-3  Rated operational power AC-1 (T≤40°C)	AC-1 (≤55°C)		20
AC-3 Rated operational power AC-1 (T≤40°C)	AC-1 (≤55°C)		
Rated operational power AC-1 (T≤40°C)	AC-1 (≤55°C)		
Rated operational power AC-1 (T≤40°C)		Α	20
Rated operational power AC-1 (T≤40°C)	A O 4 / := 000	Α	18
Rated operational power AC-1 (T≤40°C)	AC-1 (≤70°C)	Α	15
	(≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	230V	kW	8
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	400V	kW	14
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	500V	kW	16
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	690V	kW	22
	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	Α	16
	751	Λ.	4.0
	75V	Α	10
	75V 110V 220V	A A A	10 10 2







IEC max current le in D	DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
		≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	Α	1
		220V	Α	_
IEC max current le in D	DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	•	≤24V	Α	8
		48V	Α	8
		75V	Α	5
		110V	Α	4
		220V	Α	_
IEC max current le in D	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	•	≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
IEC max current le in [	DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
		≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
Short-time allowable co	urrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse	,			
		gG (IEC)	Α	20
		aM (IEC)	Α	10
Making capacity (RMS	value)	· /	Α	92
Breaking capacity at vo	·			
0 1 ,	<b>G</b>	440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	verage value)		mΩ	10
Power dissipation per p				_
	,	Ith	W	4
		AC-3	W	0.81
Tightening torque for te	erminals			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Tightening torque for co	oil terminal			
-		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75





# FOUR-POLE CONTACTOR, AC COIL 60HZ, 220VAC, FASTON TERMINALS

		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
	Florible with insulated and deliver and return	max	mm²	2.5
	Flexible with insulated spade lug conductor s		mm²	1.5
		min max	mm²	1.5 2.5
		тах	111111	IP20 when
Power terminal protect	tion 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			
Amiliana and and	ata viation .	max		12
Auxiliary contact chara	cteristics		٨	10
Thermal current Ith IEC/EN 60947-5-1 des	signation		Α	10 A600
Operations	signation			A000
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
· ·	Od according to EN/ISO 13489-1			
		rated load	cycles	500000
-		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	01.1-		V	220
Rated AC voltage at 60 AC operating voltage	JUZ		V	220
AC operating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	L.s., 2F	min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	30
		holding	VA VA	4
	of 50/60Hz coil powered at 60Hz	Holding	٧,١	·
	5. 55, 55. 12 55.1 porroidd di 501 12	in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding:	≤20°C 50Hz		W	0.95
Max cycles frequency			evels://	2000
Mechanical operation			cycles/h	3600



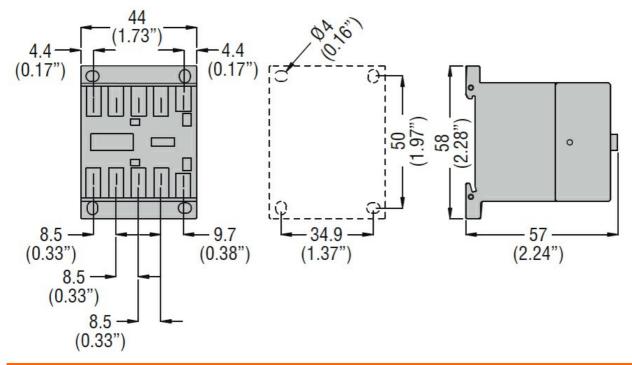
Operating times						
Average time for Us of	control					
-	in AC					
		Closing NO				
		<b>3</b> - <b>3</b> - <b>3</b>	min	ms	12	
			max	ms	21	
		Opening NO				
		oponing 110	min	ms	9	
			max	ms	18	
		Closing NC	max	1113	10	
		Closing NC	min	ms	17	
			max		26	
		Opening NC	IIIax	ms	20	
		Opening NC	i		7	
			min	ms	7	
	. 50		max	ms	17	
	in DC	01 1 110				
		Closing NO	_			
			min	ms	18	
		_	max	ms	25	
		Opening NO				
			min	ms	2	
			max	ms	3	
		Closing NC				
			min	ms	3	
			max	ms	5	
		Opening NC				
			min	ms	11	
			max	ms	17	
UL technical data						
Full-load current (FLA	A) for three-phase A	C motor				
Full-load current (FLA	A) for three-phase A	C motor	at 480V	Α	7.6	
Full-load current (FLA	A) for three-phase A	C motor	at 480V at 600V	A A	7.6 6.1	
		C motor	at 480V at 600V	A A	7.6 6.1	
Full-load current (FLA	performance					
			at 600V	А	6.1	
	performance		at 600V 110/120V	A HP	0.5	
	performance for single-phase	AC motor	at 600V	А	6.1	
	performance	AC motor	at 600V 110/120V 230V	A HP HP	0.5 1.5	
	performance for single-phase	AC motor	at 600V 110/120V 230V 200/208V	HP HP	0.5 1.5	
	performance for single-phase	AC motor	at 600V 110/120V 230V 200/208V 220/230V	HP HP HP	0.5 1.5 2 3	
	performance for single-phase	AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	0.5 1.5 2 3 5	
Yielded mechanical p	performance for single-phase	AC motor	at 600V 110/120V 230V 200/208V 220/230V	HP HP HP	0.5 1.5 2 3	
	performance for single-phase for three-phase	AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	0.5 1.5 2 3 5	
Yielded mechanical p	performance for single-phase	AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 2 3 5 5	
Yielded mechanical p	for single-phase for three-phase for three-pha	AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	0.5 1.5 2 3 5	
Yielded mechanical p	for single-phase for three-phase for three-pha	AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 2 3 5 5	
Yielded mechanical p	for single-phase for three-phase for three-pha	AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 2 3 5 5	
Yielded mechanical p	for single-phase for three-phase for three-pha	AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 2 3 5 5	
Yielded mechanical p	for single-phase for three-phase for three-pha	AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP HP	0.5 1.5 2 3 5 5	
Yielded mechanical p	for single-phase for three-phase for three-pha	AC motor	at 600V  110/120V 230V  200/208V 220/230V 460/480V 575/600V  AC current	HP HP HP HP HP	0.5 1.5 2 3 5 5	
Yielded mechanical p	for single-phase for three-phase for three-pha	AC motor	at 600V  110/120V 230V  200/208V 220/230V 460/480V 575/600V  AC current  Short circuit current Fuse rating	HP HP HP HP HP	6.1 0.5 1.5 2 3 5 5 20	
Yielded mechanical p	cerformance for single-phase for three-phase  Contactor on fuse, 600V High fault	AC motor	at 600V  110/120V 230V  200/208V 220/230V 460/480V 575/600V  AC current  Short circuit current Fuse rating	HP HP HP HP HP	0.5 1.5 2 3 5 5 20	
Yielded mechanical p	cerformance for single-phase for three-phase  Contactor on fuse, 600V High fault	AC motor	at 600V  110/120V 230V  200/208V 220/230V 460/480V 575/600V  AC current  Short circuit current Fuse rating Fuse class  Short circuit current	HP HP HP HP KA A	6.1 0.5 1.5 2 3 5 5 20 100 30 J	
Yielded mechanical p	cerformance for single-phase for three-phase  Contactor on fuse, 600V High fault	AC motor	at 600V  110/120V 230V  200/208V 220/230V 460/480V 575/600V  AC current  Short circuit current Fuse rating Fuse class	HP HP HP HP HP	0.5 1.5 2 3 5 5 20	
Yielded mechanical p	cerformance for single-phase for three-phase  Contactor on fuse, 600V High fault	AC motor	at 600V  110/120V 230V  200/208V 220/230V 460/480V 575/600V  AC current  Short circuit current Fuse rating Fuse class  Short circuit current	HP HP HP HP KA A	6.1 0.5 1.5 2 3 5 5 20 100 30 J	



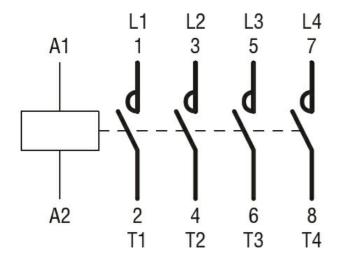
	min max	°C °C	-50 +70
Storage temperature			_
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			

Pollution degree 3

## Dimensions



### 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



**ENERGY AND AUTOMATION** 

## 11BGF09T4A22060

## FOUR-POLE CONTACTOR, AC COIL 60HZ, 220VAC, FASTON TERMINALS

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

ETIM 8.0

EC000066 -Power contactor, AC switching