



Product designation			Power contactor
Product type designation			BGF09
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
·	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	0
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	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	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
	75V	Α	10
	110V	Α	10
	220V	Α	2

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series







ENERGY AND AUTOMATION

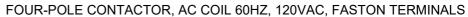
		≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	A	1
		220V	A	ı
150	D00 D05 - 111 - 1 /D - 4 /5 111 - 0 - 1 - 1 1	220 V	Α	
IEC max current le in i	DC3-DC5 with L/R ≤ 15ms with 2 poles in series		_	_
		≤24V	Α	8
		48V	Α	8
		75V	Α	5
		110V	Α	4
		220V	Α	_
IEC max current le in I	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	'	≤24V	Α	10
		48V	A	10
		75V	A	6
		110V		5
			A	
IEO	D00 D05 W 1/D : 45	220V	Α	0,8
IEC max current le in l	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 c	eurrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse				
		gG (IEC)	Α	20
		aM (IEC)	Α	10
Making capacity (RMS	valuo)	aivi (ILO)	A	92
				32
Breaking capacity at vo	onage	4.40\/		70
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	average value)		mΩ	10
Power dissipation per	pole (average value)			
		Ith	W	4
		AC3	W	0.81
Tightening torque for to	erminals	=================================		
3 12 3 22 4 2 7 C		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
Tiebtenie et terri et	sail to resin al	max	Ibin	9
Tightening torque for o	coli terminal			0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	Ibin	9
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
	Flexible w/o lug conductor section			
	Flexible W/O ldg Collddctol Section	min	mm²	0.75
	Flexible w/o lug colludciol section	min max	mm² mm²	0.75 2.5





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

	Flexible c/w lug conductor section		
	min	mm²	1.5
	max	mm²	2.5
	Flexible with insulated spade lug conductor section		
	min	mm²	1.5
	max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529		IP20 when
	according to 1EO/EN 00323		properly wired
Mechanical features			
Operating position			
	norma		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	180
Conductor section			
	AWG/kcmil conductor section		
	max		12
Auxiliary contact chara	acteristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 de	signation		A600
Operations			
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	20000000
	ng to IEC/EN 609474-4-1		yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 6	0Hz	V	120
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up		
	min		75
	max	%Us	115
	drop-out	0/11	00
	min		20
AC 01/07272 5211	max	%Us	55
AC average coil consi	•		
	of 50/60Hz coil powered at 50Hz	١/٨	30
	in-rush haldina		
	of 50/60Hz coil powered at 60Hz	٧A	4
	in-rush	VA	25
	holding		3
	of 60Hz coil powered at 60Hz	v/-\	
	in-rush	VA	30
	holding		4
Dissipation at holding		W	0.95
Max cycles frequency		V V	0.00
Mechanical operation		cycles/h	3600
Operating times		0,0100/11	
operating times			





Average time for Us control

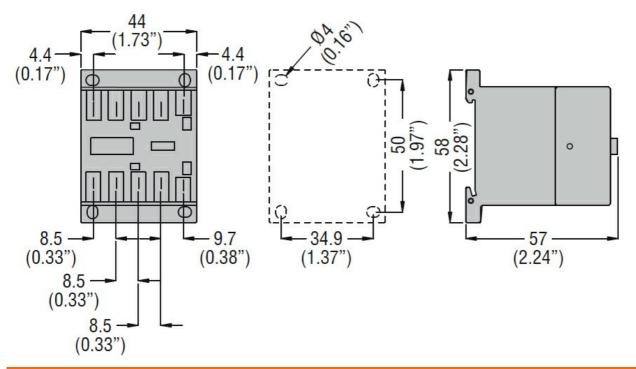
Average time for Us co	ontroi					
	in AC					
		Closing NO				
		-	min	ms	12	
			max	ms	21	
		Opening NO				
		Opening 140	min	ms	9	
		01 : 10	max	ms	18	
		Closing NC	_			
			min	ms	17	
			max	ms	26	
		Opening NC				
			min	ms	7	
			max	ms	17	
	in DC					
	20	Closing NO				
		Olosing NO	min	mc	18	
				ms		
		0 1 110	max	ms	25	
		Opening NO	_			
			min	ms	2	
			max	ms	3	
		Closing NC				
			min	ms	3	
			max	ms	5	
		Opening NC				
		opolinig i to	min	ms	11	
			max	ms	17	
III. technical data			Пах	1110		
UL technical data	for three phase AC	motor	ША			
UL technical data Full-load current (FLA)	for three-phase AC r	motor				
	for three-phase AC r	motor	at 480V	A	7.6	
Full-load current (FLA)		motor				
		motor	at 480V	A	7.6	
Full-load current (FLA)			at 480V	A	7.6	
Full-load current (FLA)	rformance		at 480V	A	7.6 6.1	
Full-load current (FLA)	rformance		at 480V at 600V 110/120V	A A HP	7.6 6.1	
Full-load current (FLA)	rformance for single-phase AC	C motor	at 480V at 600V	A A	7.6 6.1	
Full-load current (FLA)	rformance	C motor	at 480V at 600V 110/120V 230V	A A HP HP	7.6 6.1 0.5 1.5	
Full-load current (FLA)	rformance for single-phase AC	C motor	at 480V at 600V 110/120V 230V 200/208V	A A HP HP	7.6 6.1 0.5 1.5	
Full-load current (FLA)	rformance for single-phase AC	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V	A A HP HP	7.6 6.1 0.5 1.5	
Full-load current (FLA)	rformance for single-phase AC	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	A A HP HP HP	7.6 6.1 0.5 1.5	
Full-load current (FLA) Yielded mechanical pe	rformance for single-phase AC	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V	A A HP HP	7.6 6.1 0.5 1.5	
Full-load current (FLA)	rformance for single-phase AC	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	A A HP HP HP	7.6 6.1 0.5 1.5	
Full-load current (FLA) Yielded mechanical pe	rformance for single-phase AC	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	A A HP HP HP	7.6 6.1 0.5 1.5	
Full-load current (FLA) Yielded mechanical pe	rformance for single-phase AC for three-phase AC	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	A A HP HP HP	7.6 6.1 0.5 1.5	
Full-load current (FLA) Yielded mechanical pe General USE	rformance for single-phase AC for three-phase AC Contactor	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A A HP HP HP HP	7.6 6.1 0.5 1.5 2 3 5	
Full-load current (FLA) Yielded mechanical pe	rformance for single-phase AC for three-phase AC Contactor fuse, 600V	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	A A HP HP HP HP	7.6 6.1 0.5 1.5 2 3 5	
Full-load current (FLA) Yielded mechanical pe General USE	rformance for single-phase AC for three-phase AC Contactor	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	A A HP HP HP HP HP	7.6 6.1 0.5 1.5 2 3 5 5	
Full-load current (FLA) Yielded mechanical pe General USE	rformance for single-phase AC for three-phase AC Contactor fuse, 600V	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	A A HP HP HP HP HP HP	7.6 6.1 0.5 1.5 2 3 5 5	
Full-load current (FLA) Yielded mechanical pe General USE	rformance for single-phase AC for three-phase AC Contactor fuse, 600V	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	A A HP HP HP HP HP	7.6 6.1 0.5 1.5 2 3 5 5 5	
Full-load current (FLA) Yielded mechanical pe General USE	rformance for single-phase AC for three-phase AC Contactor fuse, 600V High fault	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	A A HP HP HP HP HP HP	7.6 6.1 0.5 1.5 2 3 5 5	
Full-load current (FLA) Yielded mechanical pe General USE	rformance for single-phase AC for three-phase AC Contactor fuse, 600V	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	A A HP HP HP HP A A	7.6 6.1 0.5 1.5 2 3 5 5 5	
Full-load current (FLA) Yielded mechanical pe General USE	rformance for single-phase AC for three-phase AC Contactor fuse, 600V High fault	C motor	at 480V 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	A A HP HP HP HP HP KA A KA	7.6 6.1 0.5 1.5 2 3 5 5 5	
Full-load current (FLA) Yielded mechanical pe General USE Short-circuit protection	rformance for single-phase AC for three-phase AC Contactor fuse, 600V High fault	C motor	at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	A A HP HP HP HP A A	7.6 6.1 0.5 1.5 2 3 5 5 5	
Full-load current (FLA) Yielded mechanical pe General USE	rformance for single-phase AC for three-phase AC Contactor fuse, 600V High fault	C motor	at 480V 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	A A HP HP HP HP HP KA A KA	7.6 6.1 0.5 1.5 2 3 5 5 5	

Temperature

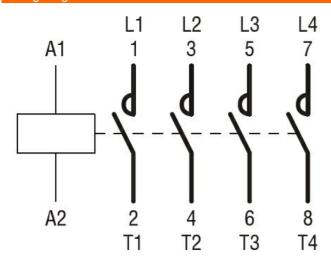
Operating temperature



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



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



11BGF09T4A12060

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

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC000066 - Power contactor, AC switching