



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		А	20
Operational current le			
	AC-1 (≤40°C)	A	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)	0001/		•
	230V	kW	8
	400V	kW	14
	500V	kW	16
150 mere summer the in D04 with $1/D < 4$ mere with 4 meters in series	690V	kW	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	(0.4)/	٨	40
	≤24V	A	12
	48V	A	10
	75V 110V	A A	4 3
	220V	A	- -
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	220 V	A	-
IEC max current le in DCT with L/R 3 mis with 2 poles in series	≤24V	А	15
	48V	A	14
	48V 75V	A	9
	110V	A	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2201		
	≤24V	А	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			-
	≤24V	А	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	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	A	1
	220V	A	_
IEC may current to in DC3 DC5 with $1/P < 15$ ms with 2 poles in series	220 V	~	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	-0 A) /	•	0
	≤24V	A	8
	48V	А	8
	75V	А	5
	110V	Α	4
	220V	Α	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V		
	2207	A	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series		_	
	≤24V	А	10
	48V	A	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
	<b>-</b> , ,		
	aM (IEC)	A	10
Making capacity (RMS value)		А	92
Breaking capacity at voltage			
	440V	A	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	W	0.81
Tink to all a standard for to and a la	AC-3	vv	0.01
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
		Ibin	
	max		9
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		12
Flexible w/o lug conductor section			
Ť	min	mm²	0.75



## **11BGF09T4A02460** FOUR-POLE CONTACTOR, AC COIL 60HZ, 24VAC, FASTON TERMINALS

		may	mm²	2.5
	Flexible c/w lug conductor section	max	111111	2.0
		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 properly wired
Mechanical features				propeny wired
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
A 11		max		12
Auxiliary contact chara	acteristics		^	40
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de Operations	esignation			A600
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			0,0100	000000
	0d according to EN/ISO 13489-1			
	u u u u u u u u u u u u u u u u u u u	rated load	cycles	500000
		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				0.4
Rated AC voltage at 6	buHz		V	24
AC operating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	Prov dp	min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
<u></u>	1	max	%Us	55
AC average coil cons				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	30
		holding	VA VA	30 4
	of 50/60Hz coil powered at 60Hz	noiding	V <i>F</i> 1	r
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding			W	0.95
Max cycles frequency			ov (cl. c. = //	2600
Mechanical operation			cycles/h	3000

11BGF09T4A02460 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



ENERGY AND AUTOMATION

Temperature

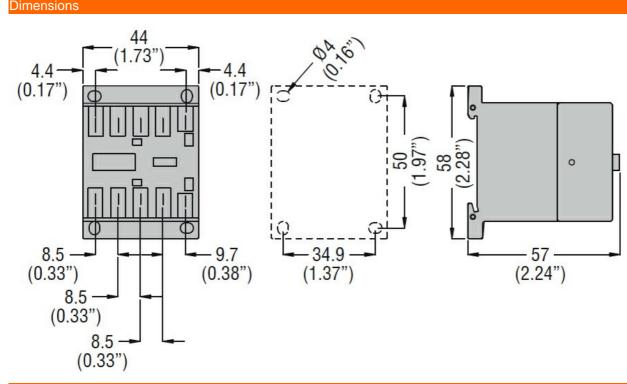
Operating times					
Average time for Us					
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
		<b>aa</b>	max	ms	18
		Closing NC			. –
			min	ms	17
			max	ms	26
		Opening NC			-
			min	ms	7
			max	ms	17
	in DC				
		Closing NO		<b>m</b> c	10
			min	ms	18
		Opening NO	max	ms	25
			min	me	2
				ms ms	2 3
		Closing NC	max	ms	5
			min	ms	3
			max	ms	5
		Opening NC	IIIdx	1115	5
		Opening NO			
			min	ms	11
			min max	ms ms	11 17
JL technical data			min max	ms ms	11 17
JL technical data Full-load current (FL	A) for three-phase A				
	A) for three-phase A		max	ms	17
	A) for three-phase A		max at 480V	ms A	17 7.6
Full-load current (FL			max	ms	17
Full-load current (FL	performance	C motor	max at 480V	ms A	17 7.6
Full-load current (FL		C motor	max at 480V at 600V	ms A A	17 7.6 6.1
Full-load current (FL	performance	C motor	max at 480V	ms A	17 7.6 6.1 0.5
	performance for single-phase	C motor AC motor	max at 480V at 600V 110/120V	MS A A HP	17 7.6 6.1
Full-load current (FL	performance	C motor AC motor	max at 480V at 600V 110/120V	MS A A HP	17 7.6 6.1 0.5
Full-load current (FL	performance for single-phase	C motor AC motor	max at 480V at 600V 110/120V 230V	MS A A HP HP	17 7.6 6.1 0.5 1.5
Full-load current (FL	performance for single-phase	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V	MS A A HP HP	17 7.6 6.1 0.5 1.5 2
Full-load current (FL	performance for single-phase	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V	MS A A HP HP HP HP	17 7.6 6.1 0.5 1.5 2 3
Full-load current (FL	performance for single-phase	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	MS A A HP HP HP HP HP HP	17 7.6 6.1 0.5 1.5 2 3 5
Full-load current (FL Yielded mechanical	performance for single-phase	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	MS A A HP HP HP HP HP HP	17 7.6 6.1 0.5 1.5 2 3 5
Full-load current (FL Yielded mechanical	performance for single-phase	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V	MS A A HP HP HP HP HP HP	17 7.6 6.1 0.5 1.5 2 3 5
Full-load current (FL /ielded mechanical	performance for single-phase for three-phase	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	MS A A HP HP HP HP HP HP HP	17 7.6 6.1 0.5 1.5 2 3 5 5 5
Full-load current (FL /ielded mechanical	performance for single-phase for three-phase / Contactor	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	MS A A HP HP HP HP HP HP HP	17 7.6 6.1 0.5 1.5 2 3 5 5 5
Full-load current (FL /ielded mechanical	performance for single-phase for three-phase	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	MS A A HP HP HP HP HP HP HP	17 7.6 6.1 0.5 1.5 2 3 5 5 5
Full-load current (FL /ielded mechanical	performance for single-phase for three-phase / Contactor	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current	MS A A HP HP HP HP HP HP A	17 7.6 6.1 0.5 1.5 2 3 5 5 5 20 100
Full-load current (FL Yielded mechanical General USE	performance for single-phase for three-phase / Contactor	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	ms A A HP HP HP HP HP HP A kA	17 7.6 6.1 0.5 1.5 2 3 5 5 5 20
Full-load current (FL Yielded mechanical General USE	performance for single-phase for three-phase / Contactor ion fuse, 600V High fault	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	ms A A HP HP HP HP HP HP A kA	17 7.6 6.1 0.5 1.5 2 3 5 5 5 20 20 100 30
Full-load current (FL Yielded mechanical	performance for single-phase for three-phase / Contactor	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	ms A A HP HP HP HP HP A KA A	17 7.6 6.1 0.5 1.5 2 3 5 5 5 20 20 100 30 J
Full-load current (FL Yielded mechanical General USE	performance for single-phase for three-phase / Contactor ion fuse, 600V High fault	C motor AC motor	max at 480V at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	ms A A HP HP HP HP HP HP A kA	17 7.6 6.1 0.5 1.5 2 3 5 5 5 20 20 100 30



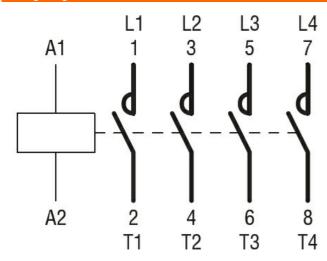
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FOUR-POLE CONTACTOR, AC COIL 60HZ, 24VAC, FASTON TERMINALS

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			



Wiring diagrams



## Certifications and 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		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching