



Product designation Product type designation			Power contactor BGF09
Contact characteristics			
Number of poles		Nr.	3
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)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
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 $L/R \le 1$ ms 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 $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	A	-
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	A	2



., .	4.6	
V A	16	
V A	16	
V A	10	
V A	10	
V A	2	
V A	7	
	I	
V A	_	
	8	
V A	8	
V A	5	
V A	4	
	_	
<u>۸</u>	10	
V A	0,8	
V A	10	
V A		
A	96	
C) A	10	
А	92	
V A	72	
mΩ	10	
	4	
th W		
th W ·3 W	4 0.81	
•3 W	0.81	
. <u>3 W</u> in Nm	0.81	
- <u>3</u> W in Nm ax Nm	0.81 0.8 1	
in Nm ax Nm in Ibin	0.81 0.8 1 9	
- <u>3</u> W in Nm ax Nm	0.81 0.8 1 9	
in Nm ax Nm in Ibin ax Ibin	0.81 0.8 1 9 9	
in Nm ax Nm in Ibin ax Ibin	0.81 0.8 1 9 9 9 0.8	
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Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	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	tion according to IEC/EN 60529			IP20 when
	3 .			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra 35mm
Maisht			~	
Weight			g	210
Conductor section				
	AWG/kcmil conductor section			10
		max		12
Auxiliary contact chara			۸	10
Thermal current Ith	signation		Α	
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15	0001/	^	0
		230V	A	3
		400V	A	1.9
	10	500V	A	1.4
Operating current DC	12	440\/	^	0.0
	10	110V	A	2.9
Operating current DC	13	0.01/		
		24V	A	2.9
		48V	A	1.4
		60V	A	1.1
		125V	A	0.3
		220V	A	0.1
Operations		600V	А	0.6
Operations			a	20000000
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data	Od according to EN//CO 42490 4			
Performance level B1	0d according to EN/ISO 13489-1			500000
		rated load	cycles	500000
		nechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				
DC rated control volta	0e		V	48

DC operating voltage



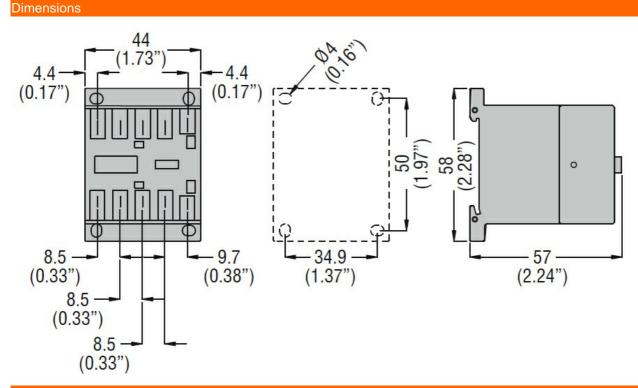
min %Us 75 drop-out min %Us 115 Average coll consumption ≲20°C in-rush W 2.3 Max cycles frequency w 2.3 Mechanical operation cycles/h 3600 Operating timos		pick-up				
drop-out min %Us 10 Average coil consumption \$20°C in-rush W 2.3 Max cycles frequency wethanical operation cycles/h 3600 Mechanical operation cycles/h 3600 Operating times wethanical operation cycles/h 3600 Average time for Us control in AC min ms 12 Opening NO min ms 12 max ms 21 Opening NO min ms 18 Closing NC max ms 18 Closing NC min ms 7 max ms 17 in DC Closing NO min ms 17 max ms 25 Opening NO min ms 2 max ms 25 Opening NO min ms 3 max ms 3 Opening NO min ms 3 max ms 3 Opening NC				min	%Us	75
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max %JUS 25 Average coll consumption ≤20°C in-rush holding W 2.3 Max cycles foguency v 2.3 Max cycles foguency cycles/h 3600 Operating times cycles/h 3600 Average time for Us control in AC max ms 12 Opening NO min ms 12 Max max ms 13 Closing NO min ms 12 Max ms 16 17 Closing NO min ms 17 Max ms 17 18 Closing NC min ms 17 Max ms 17 17 Max ms 16 17 Max ms 17 18 Closing NO min ms 2 Max ms 3 11 Opening NC min ms 3 Openin		drop-out				
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in-rush holding W 2.3 biology Mack cycles frequency cycles/h 3600 Mechanical operation cycles/h 3600 Operating times K K Average time for Us control in AC in m ms 12 Closing NO min ms 12 max ms 21 Opening NO min ms 18 17 18 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 17 18 17 18 17 18 17 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18				max	%Us	25
holding W 2.3 Max cycles frequency cycles/h 3600 Operating times cycles/h 3600 Average time for Us control in AC min ms 12 Opening NO min ms 9 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 min ms 17 max ms 25 Opening NO min ms 18 max ms 3 Opening NO min ms 3 3 3 3 Opening NC min ms 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 <	Average coil consumpt	ion ≤20°C				
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at 480V A 7.6 at 600V A 6.1 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 15 for three-phase AC motor 220/208V HP 2 220/230V HP 3 460/480V HP 5 575/600V HP 5 575/600V HP 5		for three-phase /	C motor			
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230V HP 1.5 for three-phase AC motor 200/208V HP 2 220/230V HP 3 3 460/480V HP 5 575/600V HP 5		for single phase		110/120\/	HP	0.5
for three-phase AC motor 200/208V HP 2 220/230V HP 3 460/480V HP 5 575/600V HP 5						
200/208V HP 2 220/230V HP 3 460/480V HP 5 575/600V HP 5		for three-phase	AC motor	2007		
220/230V HP 3 460/480V HP 5 575/600V HP 5				200/208V	HP	2
460/480V HP 5 575/600V HP 5						
575/600V HP 5						
	General USE					

Contactor

11BGF0910L048 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

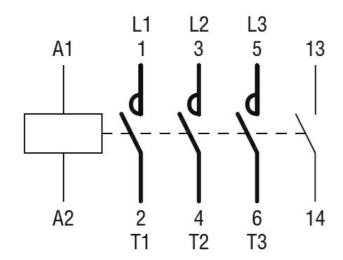


		AC current	А	20
Short-circuit protec	tion fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of au	ixiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
-				



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	
	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching