



Product designation Product type designation			Power contactor BGF09
Contact characteristics			BGI 09
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
-1	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	18
	AC-1 (≤70°C)	Α	15
	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 ser	ies		





		≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	Α	1
		220V	Α	· _
IFC may current le in I	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	- / \	
ILO IIIAX CUITEIILIE III I	DC3-DC3 With L/TC = T3HIS With 2 poles in series	<04)/	۸	0
		≤24V	A	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	Α	10
		75V	Α	6
		110V	Α	5
150 (1.1.1	200 205 111 1/2 4 45 111 4 1 1 1 1	220V	Α	0,8
ı⊨C max current le in l	DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	4.0
		≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
Short-time allowable c	urrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse	anontion too (IEO/ENGGOT)		- / \	
i iotodioni iuse		aC (IEC)	۸	20
		gG (IEC)	A	
		aM (IEC)	Α	10
Making capacity (RMS	·		Α	92
Breaking capacity at vo	oltage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	verage value)		mΩ	10
Power dissipation per				
. o a	poro (arrorago raido)	lth	W	4
		AC-3	W	0.81
Tightoning torque for t	orminala	AO-3	VV	0.01
Tightening torque for to	ziiiiiial5		N 1	0.0
		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	lbin	9
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	Ibin	9
Max number of wires of	imultaneously connectable	παλ	Nr.	2
Conductor section	inditancousty connectable		ı VII.	
Conductor Section	A1A1C/(/com:1			
	AWG/Kcmil			40
		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
			IP20 when
Power terminal protect	tion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
31 31	normal		Vertical plan
	allowable		±30°
-	anomable		Screw / DIN rail
Fixing			35mm
Weight		g	210
Conductor section		9	210
Conductor Section	AWG/kcmil conductor section		
			12
Auviliary contact chara	max max		14
Auxiliary contact chara		Λ	10
Thermal current Ith		Α	10
IEC/EN 60947-5-1 des	signation		Q600
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data			
Performance level B10	0d according to EN/ISO 13489-1		
	rated load	cycles	500000
	mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1		yes
EMC compatibility			yes
DC coil operating			
DC rated control voltage	de	V	110
DC operating voltage	<u>.</u>		
	pick-up		
	min.	%Us	75
	max	%Us	115
	drop-out	/003	. 10
	min	%Us	10
	max	%Us %Us	25
Average cell concump		/005	25
Average coil consump		\\/	2.2
	in-rush	W	3.2
Manager	holding	W	3.2
Max cycles frequency			0000
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co			
	in AC		
	Closing NO		
	min	ms	12
	max	ms	21
	Opening NO		
	min	ms	9
	max	ms	18
	Closing NC		
	-		



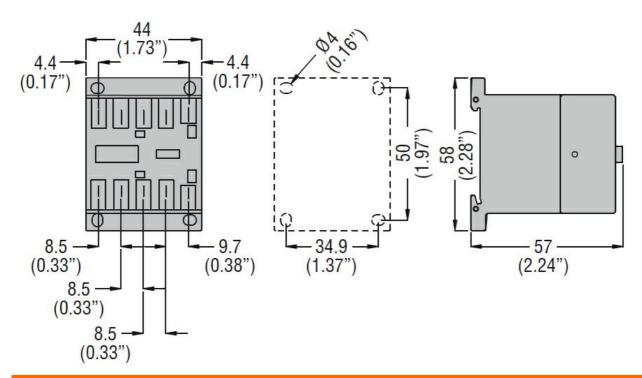




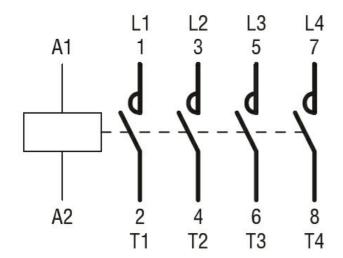
		min	ms	17
	On an in a NO	max	ms	26
	Opening NC	min	 .	7
		min max	ms ms	7 17
	in DC	IIIax	1113	
	Closing NO			
	Closhing IVE	min	ms	18
		max	ms	25
	Opening NO			
	. •	min	ms	2
		max	ms	3
	Closing NC			
		min	ms	3
		max	ms	5
	Opening NC			
		min	ms	11
		max	ms	17
UL technical data	for the same above AC was to			
Full-load current (FLA)	for three-phase AC motor	-1 4001/	Α	7.0
		at 480V	A	7.6
Yielded mechanical pe	rformanco	at 600V	Α	6.1
rieided mechanical pe	for single-phase AC motor			
	for single-phase AC motor	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	2001		
	To an each phase year.	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
	Ota da la da la	Fuse class		J
	Standard fault	Chart aireait arras at	IzΛ	E
		Short circuit current	kA ^	5 30
Ambient conditions		Fuse rating	Α	3U
Temperature				
· Jinpolatalo	Operating temperature			
	Croiding temporators	min	°C	-50
		max	°C	+70
	Storage temperature			
	5	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				
		<u> </u>		



ENERGY AND AUTOMATION



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