



Product designation			Power contactor BGF09
Product type designation Contact characteristics			DGF09
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	
operational moduloney	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	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			4.0
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
IEC may current to in DC4 with 1/D < 4 are with 4 and a fine of	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	-0A1	۸	16
	≤24V	A	16
	48V	A	16
	75V 110V	A	10
	110V 220V	A A	10 2
IFC max current le in DC3-DC5 with L/R < 15ms with 1 poles in seri			۷

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





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		≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	Α	1
		220V	Α	_
IEC max current le in l	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 l	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 l	DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
22	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	≤24V	Α	10
		48V	A	10
		75V	A	6
		110V	A	5
		220V	A	0,8
Short-time allowable of	current for 10s (IEC/EN60947-1)	220 V	A	96
Protection fuse	direction tos (IEO/EN00941-1)			30
i iotection iuse		gG (IEC)	Α	20
		aM (IEC)	A	10
Making capacity (RMS	valua)	aivi (ILC)		92
Breaking capacity at v	•			92
breaking capacity at vi	onage	440V	۸	72
			A	
		500V	A	72 72
Desistance per pole /s	average value)	690V	A	72
Resistance per pole (a			mΩ	10
Power dissipation per	pole (average value)	Ith	۱۸/	1
		lth	W	4
Timbioning towns for t	a maria a la	AC-3	W	0.81
Tightening torque for to	emmais	mi-	NI	0.0
		min	Nm Nm	0.8
		max	Nm	1
		min	lbin	9
Tielstenie e tenence fen	and the manifes of	max	lbin	9
Tightening torque for o	coli terminai		N. I	0.0
		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	1110/14			
	AWG/Kcmil			40
		max		12
	Flexible w/o lug conductor section	_	_	
		min	mm²	0.75
		max	mm²	2.5





FOUR-POLE CONTACTOR, DC COIL, 220VDC, 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
	'		IP20 when
Power terminal protect	ion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
Fixing			35mm
Weight		g	220
Conductor section		<u> </u>	
22/1440/0/ 000/0//	AWG/kcmil conductor section		
	max		12
Auxiliary contact charact			14
Thermal current Ith	Otofiotios — — — — — — — — — — — — — — — — — — —	А	10
	to control	Α	
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	ie.	V	220
DC operating voltage	9	<u> </u>	
_ 5 operating voltage	pick-up		
	pick-up min	%Us	75
		%Us	75 115
	dran out	/0US	110
	drop-out	0/11-	40
	min	%Us	10
A	max ***	%Us	25
Average coil consumpt			
	in-rush	W	3.2
	holding	W	3.2
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co	ontrol		
	in AC		
	Closing NO		
	min	ms	12
	max	ms	21
	Opening NO		
	min	ms	9
	max	ms	18
	Closing NC	1113	
	Olooling 110		

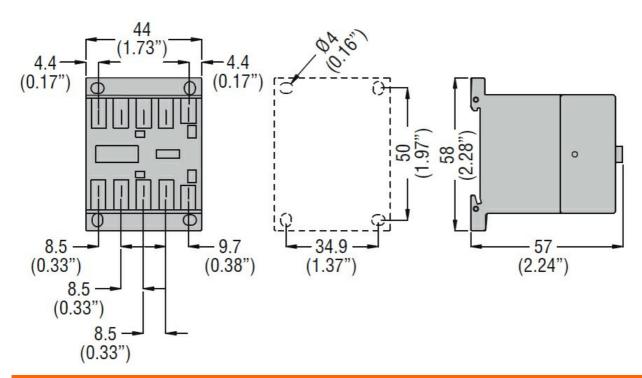




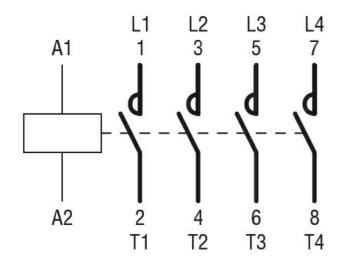
				4-
		min	ms	17
	Onening NC	max	ms	26
	Opening NC	min	mo	7
		min max	ms ms	, 17
	in DC	max	1113	
	Closing NO			
	3	min	ms	18
		max	ms	25
	Opening NO			
		min	ms	2
		max	ms	3
	Closing NC			
		min	ms	3
		max	ms	5
	Opening NC			
		min	ms	11
UL technical data		max	ms	17
	for three-phase AC motor			
i uli-loau cultetit (PLA)	ioi unee-phase AC motor	at 480V	Α	7.6
		at 600V	A	6.1
Yielded mechanical pe	rformance	at 000 v	- / \	0.1
riolada modificinoai po	for single-phase AC motor			
	Tor origin pridate / to motor	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	·	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
0	(000)/	AC current	Α	20
Short-circuit protection				
	High fault	Ob ant almost accome of	I. A	400
		Short circuit current	kA A	100 30
		Fuse rating Fuse class	А	30 J
	Standard fault	1 435 61435		<u> </u>
	Claridata taan	Short circuit current	kA	5
		Fuse rating	A	30
Ambient conditions				
Temperature				
-	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	n			
Pollution degree				3
Dimensions				



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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