





Product designation			Power contactor
Product type designation			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		Α	20
Operational current le		_	
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	A	9
D. (	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)	0001/	1-147	0.0
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5 5
Rated operational power AC-1 (T≤40°C)	690V	kW	<u> </u>
Rated operational power AC-1 (1540 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	000 V	1000	
TEO Max danion to in Bot with Effe Time with 1 polos in conce	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	<del>-</del>
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			
·	≤24V	Α	7
	48V	Α	6
	75V	Α	2
	110V	Α	_ 1
	220V	Α	· _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 \$	- , ,	
The max current to in 600-600 with E/N = 10m3 with 2 poics in series	≤24V	Α	0
	48V	A	8 8
	75V	A	5
	75 V 110 V	A	5 4
IEC may autrent to in DC2 DC5 with 1/D < 45m-1 with 2 m-1 m 1/2	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	10.437	•	10
	≤24V	A	10
	48V	A	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
IEC max current le in 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 current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
. The discipation por pole (avolage value)	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals	70-3	v v	0.01
rightening torque for terminals	min	Nlm	Λ Θ
	min	Nm Nm	0.8
	max	Nm	1
	min	lbin	9
This control is a second to control	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9



Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil	max		12
Flexible w/o lug conductor section	шах		12
Tiexible W/O ldg colladetol 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 protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position			
	rmal		Vertical plan
allow	/able		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	224
Conductor section			
AWG/kcmil conductor section			
	max		12
Auxiliary contact characteristics		^	4.0
Thermal current Ith		Α	10 A600 - Q600
IEC/EN 60947-5-1 designation Operating current AC15			A600 - Q600
·	230V	Α	3
	100V	A	1.9
	500V	A	1.4
Operating current DC12			
	110V	Α	2.9
Operating current DC13			
	24V	Α	2.9
	48V	Α	1.4
	60V	Α	1.1
	25V	Α	0.3
	220V	Α	0.1
	00V	Α	0.6
Operations Machanical life		a):=1::	20000000
Mechanical life		cycles	2000000
Electrical life Safety related data		cycles	500000
Performance level B10d according to EN/ISO 13489-1			
rated	load	cycles	500000
mechanical		cycles	2000000
Mirror contats according to IEC/EN 609474-4-1		-, 5.00	yes
<u>-</u>			yes
EIVIC COMPATIBILITY			
EMC compatibility  DC coil operating			
		V	125

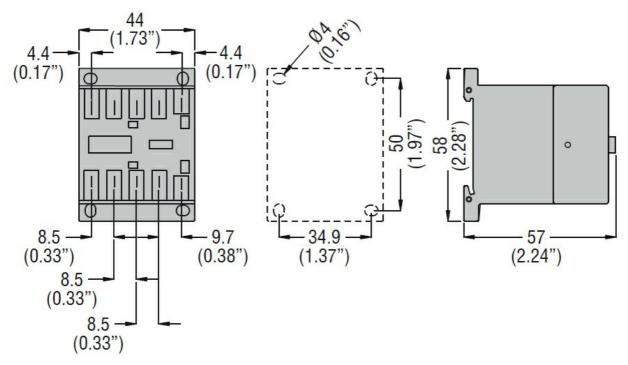




	pick-up			0/11-	75
			min	%Us	75 445
			max	%Us	115
	drop-out			0/11	
			min	%Us	10
<del></del>			max	%Us	25
Average coil consumpt	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			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					
Full-load current (FLA)	for three-phase A	AC motor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical per	rformance				_
,	for single-phase	AC motor			
	<u> </u>		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				



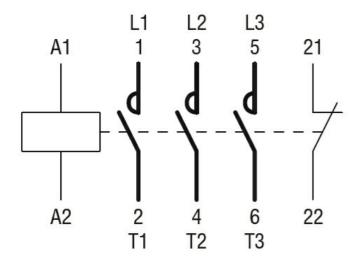
		AC current	Α	20
Short-circuit protecti	ion fuse, 600V			
	High fault			
	•	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of aux	xiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
Dimensions				



Wiring diagrams

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT, FASTON TERMINALS



## 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