



Product designation			Power contactor
Product type designation			BG09
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)	Α	20
	AC-3 (≤440V ≤55°C)	Α	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
01 11 11 11 11 11 11 11 11 11 11 11 11 1	690V	kW	22
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse	0 (150)	Δ.	00
	gG (IEC)	A	20
M. I	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage	44014		70
	440V	A	72
	500V	A	72
Decistance normals (overses value)	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)	lal.	147	4
	Ith	W	4
Tightening torque for terminals	AC3	W	0.81
riginaling torque for terminals	مر! ممر	Nima	0.0
	min	Nm Nm	0.8
	max	Nm Ibin	1
	min	lbin Ibin	0.59 0.74
Tightening torque for coil terminal	max	וווטו	0.74



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
Max number of wires s	simultaneously connectable		nr.	2
Conductor section				
	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	on		
	, -	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Mechanical features	Ü			
Operating position				
1 91		normal		vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	177
Auxiliary contact chara	cteristics		9	
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation		,,	A600 - Q600
Operating current AC1				71000 0000
Operating current AO		230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC1	12	300 V		1.7
Operating current DC		110V	Α	2.9
On a ratio a surrant DC4	10	1100	A	2.9
Operating current DC1	13	0.41/	Δ.	0.0
		24V	A	2.9
		48V	A	1.4
		60V	A	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
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
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
		min	V	12



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AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min			max	V	575
Pick-up Pick-up Pick P	AC operating voltage				
Max Muls 75 max Muls 75 max Muls 115					
Max Multiple Mu		pick-up	min	0/ I Io	75
Acceptance Ac					
Max		drop-out	IIIdA	/003	113
Max %-Us 55		diop out	min	%Us	20
of 50/60Hz coil powered at 60Hz pick-up min wUs 80 max wUs 115 drop-out min wUs 20 max wUs 55 AC operating voltage at 20°C of 50/60Hz coil powered at 50Hz in-rush vA 30 holding vA 4 of 50/60Hz coil powered at 60Hz in-rush vA 30 holding vA 4 of 60Hz coil powered at 60Hz in-rush vA 30 holding vA 4 of 60Hz coil powered at 60Hz in-rush vA 30 holding vA 4 Dissipation at holding ≤20°C 50Hz DC coll operating DC rated control voltage Average coll consumption ≤20°C in-rush v 480 Average coll consumption ≤20°C in-rush v 3.2 holding v 3.2 holding v 3.2 Average time for Us control in AC Closing NO min ms 12 max ms 12 max ms 18 Closing NC min ms 9 max ms 18 Closing NC min ms 7 max ms 26 Opening NC min ms 7 max ms 7 max ms 17 max ms 7 max ms 17 max ms 7 max ms 17					
Min		of 50/60Hz coil powered at 60Hz			
Max Wus 115 Max Mus 20 Max Mus 20 Max Mus 55 Mus Mus 55 Mus Mus Mus 55 Mus Mu		pick-up			
AC operating voltage at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 30 holding VA 4 of 50/60Hz coil powered at 60Hz in-rush VA 30 holding VA 3 of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 3 of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 3 of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 4 vA vA vA vA vA vA			min	%Us	80
Min			max	%Us	115
AC operating voltage at 20°C of 50/60Hz coil powered at 50Hz in-rush		drop-out			
AC operating voltage at 20°C of 50/60Hz coil powered at 50Hz in-rush			min		
of 50/60Hz coil powered at 50Hz In-rush holding VA 4 of 50/60Hz coil powered at 60Hz In-rush holding VA 25 holding VA 3 In-rush holding VA 4 In-rush h			max	%Us	55
In-rush holding	AC operating voltage				
Molding		of 50/60Hz coil powered at 50Hz		1/4	20
of 50/60Hz coil powered at 60Hz in-rush holding VA 25 holding VA 3 Part of 60Hz					
In-rush holding VA 25 holding VA 3		of EO/COLLE poil normand at COLLE	holding	VA	4
Molding VA 3		of 50/60Hz coil powered at 60Hz	in much	١/٨	25
of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 4 Dissipation at holding ≤20°C 50Hz W 0.95 DC coil operating DC rated control voltage min V 6 max V 480 Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 holding W 3.2 holding W 3.2 holding W 3.2 Max cycles frequency Mechanical operations cycles/h 3600 Operating times Average time for Us control 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 In DC Closing NO					
In-rush VA 30 holding VA 4		of 60Hz coil powered at 60Hz	Holding	VA	3
Property		or our iz con powered at our iz	in-rush	\/Δ	30
Dissipation at holding ≤20°C 50Hz W 0.95					
DC coil operating DC rated control voltage min V 6 max V 480	Dissipation at holding	≤20°C 50Hz			
DC rated control voltage min max V 6 max V 480					
min V 6 max V 480	•	nge			
Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operations cycles/h 3600 Operating times Average time for Us control 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 Opening NC min ms 7 max ms 17			min	V	6
In-rush holding W 3.2			max	V	480
Max cycles frequency Mechanical operations Cycles/h 3600	Average coil consump	otion ≤20°C			
Max cycles frequency Mechanical operations cycles/h 3600 Operating times Average time for Us control 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 Closing NO					3.2
Mechanical operations Cycles/h 3600			holding	W	3.2
Average time for Us control in AC Closing NO min ms 12 max ms 21					
Average time for Us control 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		S		cycles/h	3600
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	_				
Closing NO min ms 12 max ms 21	Average time for Us of				
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 7 max ms 17 in DC Closing NO		Closing NO			40
Opening NO min ms 9 max ms 18					
min ms 9 max ms 18 Closing NC min ms 17 max ms 26 Opening NC min ms 7 max ms 17 max ms 18 max ms 17 max		Onening NO	IIIdX	1115	۷ ا
Closing NC min ms 17 max ms 26		Opening NO	min	ms	9
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 26 Opening NC min ms 7 max ms 17 in DC Closing NO		Closina NC	max	5	- -
Opening NC max ms 26 min ms 7 max ms 17 in DC Closing NO			min	ms	17
Opening NC min ms 7 max ms 17 in DC Closing NO					
min ms 7 max ms 17 in DC Closing NO		Opening NC			
in DC Closing NO			min	ms	7
Closing NO			max	ms	17
		in DC			
min ms 18					
		Closing NO			

min

max

AC current

Α

20

ms

ms

3 5



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	Opening NO	max	ms	25
	Opening NO	min	ms	2
		max	ms	3

Opening	NC	
	min ms	11
	max ms	17
UL technical data		

Closing NC

	111007		• •
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	7.6
	at 600V	Α	6.1
Yielded mechanical performance			
for single-phase AC 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
Contact rating of auxiliary contacts according to UL			A600 - Q600
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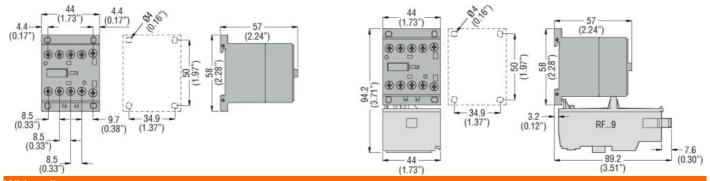
General USE

Contactor

Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	60
	Storage temperature			
		min	°C	-55
		max	°C	70
Max altitude			m	3000

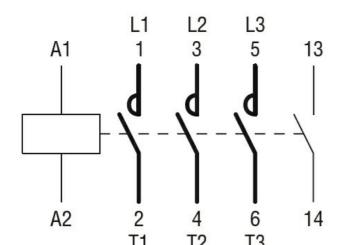
Resistance & Protection Pollution degree 3

Dimensions



Wiring diagrams





Certifications and compliance

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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 6 classification

EC000066 - Power contactor, AC switching