



Product designation			Power contactor
Product type designation			BG06
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	16
Operational current le			
	AC-1 (≤40°C)	А	16
	AC-1 (≤55°C)	А	14
	AC-1 (≤70°C)	A	12
	AC-3 (≤440V ≤55°C)	А	6
	AC-4 (400V)	А	3.3
Rated operational power AC-3 (T≤55°C)			
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	9
	48V	А	8
	75V	А	4
	110V	А	3
	220V	А	-
EC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	12
	48V	А	11
	75V	А	7
	110V	А	6
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	14
	48V	А	14
	75V	А	8
	110V	А	8



11BG0610D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 110VDC, **1NO AUXILIARY CONTACT**

	220V	А	1
EC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	-
	48V	А	-
	75V	А	-
	110V	А	-
	220V	Α	_
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	6
	48V	А	5
	75V	А	2
	110V	А	1
	220V	A	-
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	A	7
	48V	А	7
	75V	А	4
	110V	А	3
	220V	A	-
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	A	9
	48V	А	9
	75V	А	5
	110V	А	4
	220V	A	0,5
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	A	_
	48V	A	_
	75V	A	-
	110V	A	-
	220V	<u>A</u>	
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse		۸	4.0
	gG (IEC)	A	16
Maling and ait. (DMO using)	aM (IEC)	A	6
Making capacity (RMS value)		A	92
Breaking capacity at voltage	4.40\/	۸	70
	440V 500V	A A	72 72
	690V	A	72
Resistance per pole (average value)	0901	mΩ	10
Power dissipation per pole (average value)		11122	10
rower dissipation per pole (average value)	lth	14/	2.6
	Ith AC-3	W W	2.6 0.36
Tightening torque for terminals	AU-3	٧V	0.30
	min	Nim	0.8
	min	Nm Nm	
	max	Nm Ibin	1
	min	lbin Ibin	9 9
Tightoning torque for coil terminal	max	Ibin	3
Tightening torque for coil terminal		Nice	0.9
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0

lbin

min

9



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		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
	Flowible w/a lug approductor conting	max		12
	Flexible w/o lug conductor section	min	ma ma 2	0.75
		min	mm²	0.75
	Flovible of the conductor agotion	max	mm²	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
			mm²	2.5
	Elevible with insulated apade lug conductor acation	max	111111	2.0
	Flexible with insulated spade lug conductor section	min	mm²	1.5
		min	mm²	2.5
		max	11111-	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				property wred
Operating position				
		normal		Vertical plan
		allowable		±30°
		anowable		Screw / DIN rai
Fixing				35mm
Weight			g	214
Conductor section			9	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics	max		12
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC				
opolating outlotter to		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12	0001	73	
		110V	А	2.9
			~	2.3
Operating current DC	13			
Operating current DC	13			29
Operating current DC	13	24V	А	2.9 1 <i>4</i>
Operating current DC	13	24V 48V	A A	1.4
Operating current DC	13	24V 48V 60V	A A A	1.4 1.2
Operating current DC	13	24V 48V 60V 110V	A A A A	1.4 1.2 0.6
Operating current DC	13	24V 48V 60V 110V 125V	A A A A	1.4 1.2 0.6 0.55
Operating current DC	13	24V 48V 60V 110V 125V 220V	A A A A A	1.4 1.2 0.6 0.55 0.3
	13	24V 48V 60V 110V 125V	A A A A	1.4 1.2 0.6 0.55
Operations	13	24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	13	24V 48V 60V 110V 125V 220V	A A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life	13	24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life Safety related data	13 0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



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DC rated control voltage V 110 DC operating voltage pick-up min %Us 75
pick-up min %Us 75 drop-out min %Us 115 drop-out min %Us 10 max %Us 25 Average coll consumption ≤20°C in-rush W 3.2 Max cycles frequency W 3.2 Mechanical operation cycles/h 3600 Operating times cycles/h 3600 Average time for Us control in AC min ms 12 Closing NO min ms 12 max ms 12 10 Opening NO min ms 12 max ms 12 10 Max cycles frequency max ms 12 Average time for Us control min ms 12 in AC Closing NO max ms 18 Closing NC min ms 17 max 17 in DC Closing NO min ms 17 <t< td=""></t<>
min %US 75 drop-out max %US 115 drop-out min %US 10 max %US 25 Average coil consumption ≤20°C in-rush W 3.2 Max cycles frequency W 3.2 Mechanical operation cycles/h 3600 Operating times V 3.2 Average time for Us control in AC min ms 12 Opening NO min ms 21 Opening NO max ms 21 Opening NO max ms 13 Closing NC max ms 14 Max cycles if equency max ms 14
max %Us 115 drop-out min %Us 10 max %Us 10 max %Us 25 Average coil consumption ≤20°C in-rush W 3.2 Max cycles frequency W 3.2 Mechanical operation cycles/h 3600 Operating times V 3.2 Average time for Us control in AC V In AC Closing NO min Max 21 max Opening NO min ms 12 In AC Closing NO min ms 13 Opening NO min ms 18 Closing NC min ms 26 Opening NC min ms 17 max ms 17 max 17 In DC Closing NO min ms 17 in DC Closing NO min ms 17
drop-out min %Us 10 Average coil consumption ≤20°C in-rush %Us 25 Max cycles frequency in-rush W 3.2 Max cycles frequency W 3.2 Mechanical operation cycles/h 3600 Operating times
min %Us 10 %Us 25 Average coil consumption ≤20°C in-rush holding W 3.2 Modeling Max cycles frequency w 3.2 Mechanical operation cycles/h 3600 Operating times verage time for Us control in AC cycles/h 3600 Closing NO min ms 12 max ms 12 max Opening NO min ms 9 max ms 12 max Closing NC min ms 17 max 17 Max ms 17 17
max %Us 25 Average coil consumption ≤20°C in-rush holding W 3.2 holding Max cycles frequency W 3.2 Max cycles frequency V 3.2 Mechanical operation cycles/h 3600 Operating times V 3.2 Average time for Us control in AC Closing NO V Closing NO max ms 12 max Max Closing NO V 12 max Max Ms 12 max 13 max Opening NO min ms 12 max Max 18 Closing NC No 13 max Max Ms 26 17 17 Max Ms 17 17 17
Average coil consumption ≤20°C in-rush NV 3.2 holding VV 3.2 Max cycles frequency w Mechanical operation cycles/h 3600 Operating times a Average time for Us control in AC min ms 12 max ms 21 Opening NO min ms 9 max ms 18 Closing NC min ms 17 max ms 26 Min ms 7 max ms 17 max ms 17 Max ms 17 max ms 17 Max ms 17 max ms 18 Closing NO min ms 17 Max ms 17 max ms 18 Closing NC min ms 17 Max ms 17 max ms 18 Max ms 17 max ms 17 Max ms 17 max ms 17
holding W 3.2 Max cycles frequency Mechanical operation 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 7 max ms 17 max ms 26 Opening NC Min ms 7 max ms 17 max ms 17 max ms 18 Closing NC Min ms 7 max ms 18
Max cycles frequency cycles/h 3600 Operating times
Mechanical operationcycles/h3600Operating timesAverage time for Us controlin ACClosing NOMinms12maxms12maxms12Maxms12maxms9maxms9maxms9maxms17Maxms17Maxms7maxms7maxms7maxms17In DCClosing NOMinms7in DCClosing NOminms18
Operating times Average time for Us control in AC Closing NO min ms 12 max Opening NO min ms 9 max max ms 18 Closing NC min ms 17 max Min ms 26 Opening NC min ms 17 Max ms 17 Max ms 17 In DC Closing NO min ms In DC Closing NO 17 In DC Total Science NO 17
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 max MS 26 Opening NC Min MS 17 max MS 17 max MS 17 17 17 17 17 18
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 max ms 26 Opening NC min ms 17 max ms 17 max ms 17 max ms 18
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 max ms 26 Opening NC min ms 17 max ms 17 max ms 17 max 17 17 17 18
min ms 12 max ms 21 Opening NO Closing NC Min ms 17 max ms 26 Opening NC min ms 7 max ms 17 max ms 26 Opening NC min ms 7 max ms 17 max 17 max 18
Maxms21Opening NOminms9maxms18Closing NCminms17Maxms2626Opening NCminms7maxms1717in DCClosing NOminms18Closing NO
Opening NO min ms 9 max ms 18 Closing NC min ms 17 max ms 26 Opening NC min ms 7 max ms 17 max ms 17 max ms 17 max 18
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 18 Closing NC min ms 17 Min ms 26 Opening NC min ms 7 min DC min ms 17 in DC Closing NO min ms 18
Closing NC min ms 17 max ms 26 Opening NC min ms 7 min DC min Ms 17
min ms 17 max ms 26 Opening NC min ms 7 max ms 17 in DC Closing NO min ms 18
Opening NC min ms 7 max ms 17 in DC Closing NO min ms 18
min ms 7 max ms 17 in DC Closing NO min ms 18
max ms 17 in DC Closing NO min ms 18
in DC Closing NO min ms 18
Closing NO min ms 18
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 AC motor
at 480V A 4.8 at 600V A 3.9
Yielded mechanical performance
for single-phase AC motor
110/120V HP 0.3
230V HP 1
for three-phase AC motor
200/208V HP 1.5
200/208V HP 1.5 220/230V HP 2
200/208V HP 1.5

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ENERGY AND AUTOMATION

Contactor			
	AC current	А	16
High fault			
			100
	-	A	30
Standard fault	Fuse class		J
Standard ladit	Short circuit current	kΑ	5
			30
xiliary contacts according to UL			A600 - Q600
, , , , , , , , , , , , , , , , , , , ,			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature		_	
	min		-60
	max		+80
		m	3000
ction			2
			3
(2.24") (2.24"		(2.28") 5	RF9 89.2 (3.51")
	(1.0)		
$\mathbf{d}_{1}^{1} \mathbf{d}_{2}^{1} \mathbf{d}_{3}^{1} d$			
	Operating temperature Storage temperature	tion fuse, 600V High fault Short circuit current Fuse rating Fuse class Standard fault Short circuit current Fuse rating xiliary contacts according to UL Operating temperature Min max Storage temperature min max Ction 4 4 4 4 4 4 4 4 4 4 4 4 4	tion fuse, 600V High fault Short circuit current kA Fuse rating A Fuse class Standard fault Short circuit current kA Fuse rating A xiliary contacts according to UL Operating temperature Min °C max °C Storage temperature min °C max °C max °C tion L1 L2 L3

Compliance

CSA C22.2 n° 60947-4-1



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	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