





Product designation Product type designation			Power contactor 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)	Α	16
	AC-1 (≤55°C)	Α	14
	AC-1 (≤70°C)	Α	12
	AC-3 (≤440V ≤55°C)	Α	6
	AC-4 (400V)	Α	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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	9
	48V	Α	8
	75V	Α	4
	110V	Α	3
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	A	12
	48V	A	11
	75V	A	7
	110V	A	6
IFO	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	-0.01		4.4
	≤24V	A	14
	48V	A	14
	75V	A	8
	110V	Α	8





75    110   220   IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series    ≤24     44     75     111     220   IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series    ≤24     44     75     45     76     111     220   IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series    ≤24     46     47     47     48     49     40     40     41     41     42     41     42     43     44     45     46     46     46     47     48     49     40     40     41     41     42     41     42     43     44     45     46     46     47     47     48     49     40     40     40     41     41     42     41     42     43     44     45     46     46     47     47     48     49     40	4V	6 5 2 1 7 7 4 3 3 9 5	
≤24   44   79   114   229   120	3V	6 5 2 1 - 7 7 4 3 - 9 9 5	
79 110 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series  ≤24 44 79 111 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series  ≤24 44 79 111 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤24 44 79 111 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤24 44 79 111 111 111 111 111 111 111 111 111	5V A	6 5 2 1 7 7 4 3 3 - 9 9 5	
110   220	10V	6 5 2 1 1 7 7 4 3 4 3 9 9 5	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series   ≤2-4   4   7   11   22	4V A 3V A 5V A 0V A 0V A 0V A 14V A 0V A 15V A 15	6 5 2 1 1 7 7 4 3 3 4 9 9 5	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series  ≤24 48 78 111 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series  ≤24 48 78 111 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤24 48 78 111 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤24 48 78 111 111 111	4V	6 5 2 1 1 7 7 4 3 3 9 9 5	
≤24   48   78   110   220	3V	5 2 1 7 7 4 3 4 3 9 9 5	
48 79 110 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series  ≤24 48 79 111 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤24 48 79 110 110 110 110 110 110 110 110 110 11	3V	5 2 1 7 7 4 3 4 3 9 9 5	
75   110   120	5V A DV A DV A 3V A DV A DV A DV A DV A SV A	2 1 7 7 4 3 4 3 9 9 5	
110 220 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series  ≤24 46 79 110 220 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤24 79 110 110 110 110 110 110 110 110 110 11	0V	1 7 7 4 3 4 3 9 9 5	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series   ≤24	14V A 15V A 10V A 10V A 14V A 15V A	7 7 7 4 3 9 9 5	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series $\leq 24$ 44 75 111 220 IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series $\leq 24$ 47 111	4V A 5V A 5V A 5V A 5V A	7 7 4 3 4 9 9 5	
<ul> <li>≤24</li> <li>48</li> <li>79</li> <li>110</li> <li>220</li> <li>IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series</li> <li>≤24</li> <li>48</li> <li>79</li> <li>110</li> </ul>	3V	7 4 3 - 9 9 5	
49 79 110 220 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤20 49 79 110	3V	7 4 3 - 9 9 5	
75 110 220  IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤20 40 75 110	5V A DV A DV A 4V A 3V A	4 3 4 9 9 5	
110 220 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24 47 79	0V A 0V A 4V A 3V A	3 . – . 9 . 9	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤24  75  110	1V A 3V A 5V A	9 4 9 4 5	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series  ≤24  7:  110	4V A 3V A 5V A	9 4 9 4 5	
≤2-4 44 7! 110	3V A	9 5	
44 79 110	3V A	9 5	
7: 110	5V A	. 5	
110			
	) v	\ 4	
	)V A		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	, , , , , , , , , , , , , , , , , , ,	0,5	
≤24	1V A	. –	
	3V A		
	5V A		
110			
220			
Short-time allowable current for 10s (IEC/EN60947-1)	P		
Protection fuse			
gG (IE	C) A	16	
aM (IE			
Making capacity (RMS value)	P		
Breaking capacity at voltage			
440	OV A	72	
500			
690	)V A	72	
Resistance per pole (average value)	m	Ω 10	
Power dissipation per pole (average value)			
	Ith V	/ 2.6	
AC	-3 V	<i>l</i> 0.3	6
Tightening torque for terminals			
n	nin Ni		
	ax Nı		
	nin Ib		
	ax Ib	in 9	
Tightening torque for coil terminal			
	nin Ni		
	ax Nı		
n	nin Ib	in 9	



		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
	=	max		12
	Flexible w/o lug conductor section		2	0.75
		min	mm²	0.75
	Electricate Leaves Leaves of the	max	mm²	2.5
	Flexible c/w lug conductor section			4.5
		min	mm² mm²	1.5 2.5
	Florible with insulated anode lug conductor coation	max	111111	2.5
	Flexible with insulated spade lug conductor section	min	mm²	1.5
		max	mm²	2.5
		IIIax	111111	IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				propony mica
Operating position				
- p		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC	;15		_	
		230V	Α	3
		400V	A	1.9
0 "	210	500V	A	1.4
Operating current DC	712			
		4 4 6 3 7		
0	140	110V	Α	2.9
Operating current DC	213			
Operating current DC	213	24V	А	2.9
Operating current DC	213	24V 48V	A A	2.9 1.4
Operating current DC	213	24V 48V 60V	A A A	2.9 1.4 1.2
Operating current DC	213	24V 48V 60V 110V	A A A	2.9 1.4 1.2 0.6
Operating current DC	213	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC	213	24V 48V 60V 110V 125V 220V	A A A A	2.9 1.4 1.2 0.6 0.55 0.3
	213	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operations	213	24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	213	24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data	213	24V 48V 60V 110V 125V 220V	A A A A A	2.9 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	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations  Mechanical life  Electrical life  Safety related data  Performance level B	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





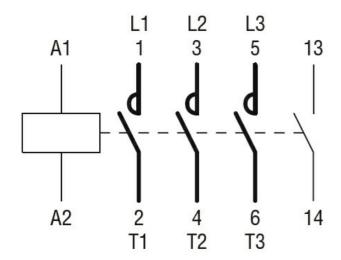
Rated AC voltage at 6	50Hz		V	460
C operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/116	75
		min	%Us %Us	75 115
	drop-out	max	7005	115
	drop out	min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			
Ū	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz	امند ما:	١/٨	20
		in-rush holding	VA VA	30 4
Dissipation at holding	<20°C 50Hz	Holding	W	0.95
Max cycles frequency			v v	0.00
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us o	ontrol			
	in AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
	Closing NC	max	ms	18
	Closing NC	min	ms	17
		max	ms	26
	Opening NC			
	-1 - 3	min	ms	7
		max	ms	17
	in DC			
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NO	. •		0
		min	ms	2
	Closing NC	max	ms	3
	Closing IVC	min	ms	3
		max	ms	5
	Opening NC	HILL	1113	•
	G.F.S	min	ms	11
		max	ms	17
JL technical data				
ull-load current (FLA	) for three-phase AC motor			
(		at 480V at 600V	Α	4.8 3.9

**ENERGY AND AUTOMATION** 

Yielded mechanical p	performance			
	for single-phase AC motor			
	3 1	110/120V	HP	0.3
		230V	HP	1
	for three-phase AC motor	2001		<u>'</u>
	ioi tiliee-pilase AC motol	200/208V	HP	1.5
		200/208V 220/230V	HP	2
		460/480V	HP	3
		575/600V	HP	3
General USE				
	Contactor			
		AC current	Α	16
Short-circuit protection	on fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault	. 400 0.400		
	Staridard radit	Short circuit current	kA	5
		Fuse rating	A	30
Contact rating of aux	iliany contacts according to LII	r use rating		A600 - Q600
	iliary 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 & Protec	tion			
Pollution degree				3
Dimensions				J
4.4 (0.17") (0.17") (0.17") (0.17")	57 (2.24") (2.24")		(2.28°°)	57
8.5 (0.33") 8.5 (0.33") 8.5		3.2 (1.37") (0.12"	,)	RF9 -7.6
8.5 (0.33") 9.7		4 (E) O H P O (C C)		RF9 -7.6 (0.30 (0.30

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 460VAC, 1NO AUXILIARY CONTACT



#### 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