



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)	Α	160
	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
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	16
	aM (IEC)	A	6
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)			
	Ith	W	2.6
	AC3	W	0.36
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
Tightening torque for coil terminal	max	lbin	0.74



ENERGY AND AUTOMATION

		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 protec	tion according to IEC/EN 60529			IP20 when wired
Mechanical features	3			
Operating position				
1 9 F		normal		vertical plan
		allowable		±30°
		anomabio		Screw / DIN rail
Fixing				35mm
Weight			g	230
Auxiliary contact chara	octeristics		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		1.4
Operating current DC		110V	Α	2.9
On a ratio a surrant DC4	10	1100	A	2.9
Operating current DC1	13	0.41/	۸	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
Mirror contats according	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



ENERGY AND AUTOMATION

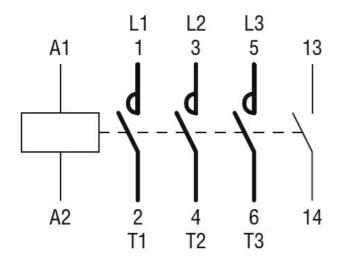
			max	V	575
AC operating voltage					
	of 50/60Hz coil pov	wered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pov	wered at 60Hz			0.5
			in-rush	VA	25
	-f COLL—:!		holding	VA	3
	of 60Hz coil power	ed at 60HZ	in-rush	VA	30
			holding	VA VA	4
Dissipation at holding	<20°C 50H 7		riolality	W	0.9
DC coil operating	320 0 30112			VV	0.9
DC rated control volta	ana				
DC Taled Control voits	ay e		min	V	6
			max	V	250
DC operating voltage			Hax	v	200
20 operating voitage	pick-up				
	Pion ap		min	%Us	75
			max	%Us	115
	drop-out				_
			min	%Us	10
			max	%Us	25
Average coil consum	ption ≤20°C				
· ·	•		in-rush	W	3.2
			holding	W	3.2
Max cycles frequency	/			W	3.2
Mechanical operation				W cycles/h	
Mechanical operation Operating times	S				
Mechanical operation	control				
Mechanical operation Operating times	S				
Mechanical operation Operating times	control	Closing NO	holding	cycles/h	3600
Mechanical operation Operating times	control	Closing NO	holding	cycles/h	3600
Mechanical operation Operating times	control	-	holding	cycles/h	3600
Mechanical operation Operating times	control	Closing NO Opening NO	holding min max	cycles/h ms ms	3600 12 21
Mechanical operation Operating times	control	-	holding min max min	cycles/h ms ms ms	3600 12 21 9
Mechanical operation Operating times	control	Opening NO	holding min max	cycles/h ms ms	3600 12 21
Mechanical operation Operating times	control	-	min max min max	ms ms ms ms	3600 12 21 9 18
Mechanical operation Operating times	control	Opening NO	min max min max min	ms ms ms ms	3600 12 21 9 18
Mechanical operation Operating times	control	Opening NO Closing NC	min max min max	ms ms ms ms	3600 12 21 9 18
Mechanical operation Operating times	control	Opening NO	min max min max	ms ms ms ms ms	3600 12 21 9 18 17 26
Mechanical operation Operating times	control	Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms	3600 12 21 9 18 17 26 7
Mechanical operation Operating times	control in AC	Opening NO Closing NC	min max min max	ms ms ms ms ms	3600 12 21 9 18 17 26
Mechanical operation Operating times	control	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms	3600 12 21 9 18 17 26 7
Mechanical operation Operating times	control in AC	Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
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Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max	ms m	3600 12 21 9 18 17 26 7 17 18 25 2



ENERGY AND AUTOMATION

		min	ms	11	
		max	ms	17	
UL technical data					
Full-load current (FLA) for three-pha	ase AC motor				
		at 480V	Α	4.8	
		at 600V	Α	3.9	
Yielded mechanical performance					
for single-p	hase AC motor				
		110/120V	hp	0.3	
		230V	hp	1	
for three-ph	nase AC motor				
		200/208V	hp	1.5	
		220/230V	hp	2	
		460/480V	hp	3	
		575/600V	hp	3	
Contact rating of auxiliary contacts	according to UL			A600 - Q600	
General USE					
Contactor					
		AC current	Α	16	
Ambient conditions					
Temperature					
Operating t	emperature				
		min	°C	-40	
		max	°C	60	
Storage ter	nperature				
		min	°C	-55	
		max	°C	70	
Max altitude			m	3000	
Resistance & Protection					
Pollution degree				3	
Dimensions					
4.4 (0.17")					





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