



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-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)	Α	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
	max	Ibin	0.74
Tightening torque for coil terminal			



		min	Nm	0.8		
		max	Nm	1		
		min	lbft	0.8		
		max	lbft	0.74		
Max number of wires 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						
31		normal		vertical plan		
		allowable		±30°		
				Screw / DIN rail		
Fixing				35mm		
Weight			g	182		
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	3	230V	Α	3		
		400V	A	1.9		
		500V	A	1.4		
Operating current DC1	2	300 V		1.4		
Operating current DC	2	110V	Α	2.9		
On a ratio a surrant DC4	0	1100	A	2.9		
Operating current DC1	3	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		
	ng to IEC/EN 609474-4-1			yes		
EMC compatibility				Yes		
AC coil operating	AC coil operating					
Rated AC voltage at 5	0/60Hz, 60Hz					
		min	V	12		

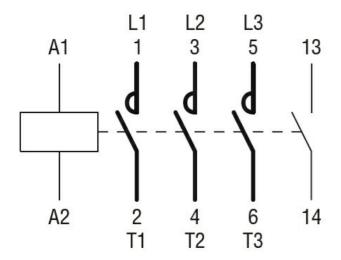


-			max	V	575
AC operating voltage					
	of 50/60Hz coil powere				
		pick-up	min	%Us	75
			max	%Us	115
		drop-out	max	7000	110
		а. ор оа.	min	%Us	20
			max	%Us	55
	of 50/60Hz coil powere	ed at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out		0/11-	0.0
			min	%Us %Us	20
AC operating voltage	at 20°C		max	%08	55
AC operating voitage	of 50/60Hz coil powere	ed at 50Hz			
	or covering con bowere	.a at 001 12	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil powere	ed at 60Hz	9	-	
	·		in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered a	t 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
DC coil operating	~-				
DC rated control volta	ne				
	ge		min	17	C
	go		min	V	6 250
			min max	V V	6 250
Average coil consump			max	V	250
			max in-rush	V W	3.2
			max	V	250
Average coil consump	otion ≤20°C		max in-rush	V W	3.2 3.2
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C		max in-rush	W W	3.2 3.2
Average coil consump Max cycles frequency Mechanical operations	otion ≤20°C		max in-rush	W W	3.2 3.2
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C		max in-rush	W W	3.2 3.2
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	Closing NO	in-rush holding	W W cycles/h	3.2 3.2 3600
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	Closing NO	in-rush holding min	W W cycles/h	3.2 3.2 3600
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	-	in-rush holding	W W cycles/h	3.2 3.2 3600
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	Closing NO Opening NO	in-rush holding min max	W W cycles/h ms ms	3.2 3.2 3600
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	-	max in-rush holding min max min	W W cycles/h ms ms	3.2 3.2 3600 12 21
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	Opening NO	in-rush holding min max	W W cycles/h ms ms	3.2 3.2 3600
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	-	max in-rush holding min max min	W W cycles/h ms ms	3.2 3.2 3600 12 21
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	Opening NO	max in-rush holding min max min max	W W cycles/h ms ms	3.2 3.2 3600 12 21 9 18
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	Opening NO	in-rush holding min max min max min max min	W W cycles/h ms ms ms	3.2 3.2 3600 12 21 9 18
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	Opening NO Closing NC	in-rush holding min max min max min max min	W W cycles/h ms ms ms	3.2 3.2 3600 12 21 9 18 17 26
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C control in AC	Opening NO Closing NC	max in-rush holding min max min max min max min max	W W cycles/h ms ms ms	3.2 3.2 3600 12 21 9 18 17 26
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C	Opening NO Closing NC Opening NC	max in-rush holding min max min max min max min max	W W Cycles/h ms ms ms ms ms	3.2 3.2 3600 12 21 9 18 17 26
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C control in AC	Opening NO Closing NC	max in-rush holding min max min max min max min max min max	W W Cycles/h ms ms ms ms ms ms	3.2 3.2 3600 12 21 9 18 17 26 7
Average coil consump Max cycles frequency Mechanical operations Operating times	otion ≤20°C control in AC	Opening NO Closing NC Opening NC	max in-rush holding min max min max min max min max	W W Cycles/h ms ms ms ms ms	3.2 3.2 3600 12 21 9 18 17 26



Opening NO					
Min			max	ms	25
Closing NC		Opening N			
Closing NC					
Min				ms	3
Max		Closing No			
Opening NC			min	ms	
Max altitude Max M				ms	5
Vil. technical data Full-load current (FLA) for three-phase AC motor at 480V A 4.8 at 600V A 3.9		Opening N	IC		
Vielded current (FLA) for three-phase AC motor			min	ms	
Full-load current (FLA) for three-phase AC motor at 480V 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 1.5 220/230V hp 2 460/480V hp 3 575/600V hp 3 575/600V hp 3 575/600V hp 3 3 575/600V hp 3 3 575/600V hp 3 57			max	ms	17
At 480					
Yielded mechanical performance for single-phase AC motor	Full-load current (FLA) f	or three-phase AC motor			
Yielded mechanical performance for single-phase AC motor 110/120V hp 0.3 230V hp 1 200/208V 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 A 16 Ambient conditions Temperature Operating temperature min °C -40 max °C 60 Storage temperature Max altitude min °C -55 max °C 70 Max altitude Temperature Max altitude Max altitude Max altitude			at 480V	Α	4.8
For single-phase AC motor			at 600V	Α	3.9
110/120V hp 0.3 230V hp 1 1 1 1 1 1 1 1 1	Yielded mechanical perf	formance			
110/120V hp 0.3 230V hp 1 1 1 1 1 1 1 1 1		for single-phase AC motor			
Contact rating of auxiliary contacts according to UL A600 - Q600			110/120V	hp	0.3
for three-phase AC motor 200/208V			230V	-	
200/208V hp 1.5 220/230V hp 2 460/480V hp 3 575/600V hp 3 57		for three-phase AC motor		· ·	
220/230V hp 2 460/480V hp 3 575/600V hp 3 575/		•	200/208V	hp	1.5
A60/480V hp 3					
S75/600V hp 3					
Contact rating of auxiliary contacts according to UL General USE Contactor AC current A 16 Ambient conditions Temperature Operating temperature min °C -40 max °C 60 Storage temperature min °C -55 max °C 70 Max altitude Resistance & Protection Pollution degree 3 Dimensions				-	
General USE Contactor AC current A 16 Ambient conditions Temperature Operating temperature min °C -40 max °C 60 Storage temperature min °C -55 max °C 70 Max altitude Resistance & Protection Pollution degree 3 Dimensions	Contact rating of auxiliar	ry contacts according to UL	313,000		
Contactor AC current A 16 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		,			
Ambient conditions Temperature Operating temperature min °C -40 max °C 60 Storage temperature min °C -55 max °C 70 Max altitude max °C 70 Max altitude Resistance & Protection Pollution degree 3 Dimensions		Contactor			
Ambient conditions Temperature Operating temperature min °C -40 max °C 60 Storage temperature min °C -55 max °C 70 Max altitude Resistance & Protection Pollution degree 3 Dimensions Add 44 Add 4			AC current	Α	16
Operating temperature min	Ambient conditions				
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 44 44 44 44 44 44 44 44 44 44 44 44 4					
min °C -40 max °C 60 Storage temperature min °C -55 max °C 70 Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions		Operating temperature			
Max altitude min °C -55 max °C 70		operaning temperature	min	°C	-40
Storage temperature min °C -55 max °C 70 Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions 44 (0.17") 0.38" (0.33") 0.38" (0.38") 1.37" RE9 RE9					
min °C -55 max °C 70 Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions 44 (0.17") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.12") RE9		Storage temperature	ax		
Max altitude m 3000 Resistance & Protection 8 Pollution degree 3 Dimensions 3		ago tomporataro	min	°C.	-55
Max altitude Resistance & Protection Pollution degree 3 Dimensions 44 (0.17") (0.38") (1.37") 3000 Resistance & Protection 3 RE9					
Resistance & Protection Pollution degree 3 Dimensions 44 (0.17")	Max altitude		max		
Pollution degree Dimensions 44 (1.73") (0.17") (0.33") (0.38") (0.38") (1.37") 3 Dimensions 3 3 44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")		1		111	3000
Dimensions 44 (0.17") (0.38		'			3
44 (0.17") (0					3
(0.17")					
8.5	4.4 (0.17")	(2.244)	3.71° (3.71°) (3.71°) (4.97°) (4.97°)	58") (2.28") 50	.24")
(0.33") 8.5 (0.33") (1.73") (1.73") (3.51")	(0.33")	1.37")	(1.37") (0.1	2")	76
Wiring diagrams			(1.73)		(0.01)





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