





Product designation Power contactor Product type designation **BG06** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 16 Α 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) 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 3 Α 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 12 48V Α 11 75V 7 Α 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 14 14 48V Α 75V Α 8 110V 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 46 47 47 48 49 40 40 40 41 41 42 41 42 43 44 45 46 46 47 47 48 49 49 40	4V	6 5 2 1 7 7 4 3 9 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 4V A 3V A 3V A 5V A	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 ≤ 24 44 75 111 220 IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series ≤ 24 47 111	4V A 5V A 5V A 5V A 5V A	7 7 4 3 4 9 9 5	
 ≤24 48 79 110 220 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24 48 79 110 	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
	Electrical designation of the second	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 coetion	max	ШШ	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				p. 5 p 5 m 7 m 10 d
Operating position				
- p - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		normal		Vertical plan
		allowable		±30°
Finds a				Screw / DIN rail
Fixing				35mm
Weight			g	178
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	Α	1.9
		500V	A	1.4
Operating current DC	:12		_	
				2.9
		110V	Α	2.5
Operating current DC	213			
Operating current DC	213	24V	Α	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
	C13	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





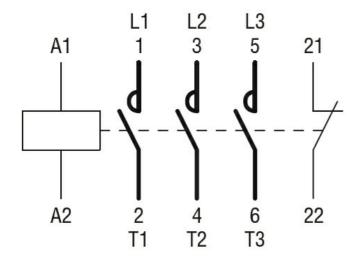
Rated AC voltage at 60	0Hz			V	24
AC operating voltage					
	of 60Hz coil power				
		pick-up	min	0/116	75
			min max	%Us %Us	75 115
		drop-out	IIIax	/003	113
		arop out	min	%Us	20
			max	%Us	55
AC average coil consu	ımption at 20°C				
	of 50/60Hz coil pov	wered at 50Hz			
			in-rush	VA	30
	-		holding	VA	4
	of 50/60Hz coil pov	wered at 60Hz			
			in-rush	VA	25
	. (0011	. 1 . (0011	holding	VA	3
	of 60Hz coil power	eu at 60HZ	in-rush	VA	30
			in-rush holding	VA VA	4
Dissipation at holding :	≤20°C 50Hz		Holding	W	0.95
Max cycles frequency				V V	
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	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			
		3 -	min	ms	7
			min max	ms ms	7 17
	in DC				
	in DC	Closing NO	max		17
	in DC		max	ms ms	18
	in DC	Closing NO	max	ms	17
	in DC		max min max	ms ms ms	17 18 25
	in DC	Closing NO	max min max min	ms ms ms	18 25 2
	in DC	Closing NO Opening NO	max min max	ms ms ms	17 18 25
	in DC	Closing NO	max min max min max	ms ms ms ms	18 25 2 3
	in DC	Closing NO Opening NO	min max min max min	ms ms ms ms	17 18 25 2 3 3
	in DC	Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms	18 25 2 3
	in DC	Closing NO Opening NO	min max min max min	ms ms ms ms	18 25 2 3
	in DC	Closing NO Opening NO Closing NC	min max min max	ms ms ms ms ms	18 25 2 3 3 5
JL technical data	in DC	Closing NO Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms ms ms	17 18 25 2 3 3 5
		Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms ms	17 18 25 2 3 3 5
JL technical data Full-load current (FLA)		Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms ms	17 18 25 2 3 3 5



Violded machanical part	formanaa			
Yielded mechanical perf				
	for single-phase AC motor	440/420\/	LID	0.0
		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
General USE				
	Contactor			
		AC current	Α	16
Short-circuit protection f	fuse. 600V			
· ·	High fault			
	gs-a	Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class	\sim	J
	Standard fault	i use ciass		<u> </u>
	Standard radit	Short circuit current	kA	5
		Fuse rating	A	30
O		ruse raing	A	
Contact rating of auxiliar Ambient conditions	ry contacts according to UL			A600 - Q600
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	า			
Pollution degree				3
Dimensions				
(0.17°)	34.9—1.37")	44 (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	89.2 (3.51")
Wiring diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 24VAC, 1NC 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