





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 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 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 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 ≤ 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	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	AMO #4			
	AWG/Kcmil			40
	Flavible w/e lue conductor continu	max		12
	Flexible w/o lug conductor section	min	mama ²	0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.0
	r lexible of windy conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.0
	Trexible with insulated space rag solidation section	min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		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			A	10
IEC/EN 60947-5-1 de	•			A600 - Q600
Operating current AC	15			
		230V	A	3
			Α	1.9
		400V		
0	40	500V	Α	1.4
Operating current DC	12	500V	Α	1.4
Operating current DC Operating current DC		500V 110V	A A	2.9
		500V 110V 24V	A A	1.4 2.9 2.9
		500V 110V 24V 48V	A A A	1.4 2.9 2.9 1.4
		500V 110V 24V 48V 60V	A A A A	1.4 2.9 2.9 1.4 1.2
		500V 110V 24V 48V 60V 110V	A A A A A	1.4 2.9 2.9 1.4 1.2 0.6
		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 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	13	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 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		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles cycles	1.4 2.9 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	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





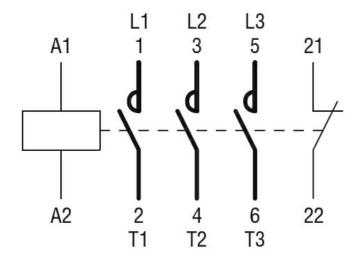
Rated AC voltage at 60	0Hz			V	120
AC operating voltage					
	of 60Hz coil powe	red at 60Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out	•	0/11-	00
			min	%Us	20
AC average coil consu	ımption at 20°C		max	%Us	55
AC average con consc	of 50/60Hz coil po	world at 50Hz			
	01 30/001 12 COII po	Wered at 30112	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	wered at 60Hz	- Indianing	***	•
	01 00/001 12 0011 po	W0100 01 001 12	in-rush	VA	25
			holding	VA	3
	of 60Hz coil powe	red at 60Hz	<u> </u>		
	•		in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			40
			min	ms	12 21
		Opening NO	max	ms	21
		Opening NO	min	ms	9
			max	ms	18
		Closing NC	Пах	1110	10
		Greening 110	min	ms	17
			max	ms	26
		Opening NC			
		-	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
		0 1 110	max	ms	25
		Opening NO	. •		0
			min	ms	2
		Closing NC	max	ms	3
		Ciosing IVC	min	ms	3
			max	ms	5
		Opening NC	шах	1113	•
		Oponing 110	min	ms	11
			max	ms	17
UL technical data					
) for three-phase AC	motor			
Full-load current (FLA)					
Full-load current (FLA)	•		at 480V	Α	4.8
Full-load current (FLA)	•		at 480V at 600V	A A	4.8 3.9

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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 motor	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, 120VAC, 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