



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			
oporational modulo by	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	16
Operational current le		Λ	10
Operational current le	AC-1 (≤40°C)	А	16
	AC-1 (≤40 C) AC-1 (≤55°C)		14
	AC-1 (≤55 C) AC-1 (≤70°C)	A	14
	AC-3 (≤440V ≤55°C)	A	6
	. , , , , , , , , , , , , , , , , , , ,	A	
Deted energianal neuron AC 2 (T <ee°c)< td=""><td>AC-4 (400V)</td><td>A</td><td>3.3</td></ee°c)<>	AC-4 (400V)	A	3.3
Rated operational power AC-3 (T≤55°C)	0001/	1.3.47	4 5
	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)	0001/	1.3.47	0
	230V	kW	6
	400V	kW	10
	500V	kW	13
IFC may autrent lo in DC1 with L/D < 1 ma with 1 notes in parise	690V	kW	18
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	<0 A \	٨	0
	≤24V	A	9
	48V	A	8
	75V	A	4
	110V 220V	A	3
IFC may autrent lo in DC1 with L/D < 1 ma with 2 nales in parise	2201	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	(0.1)	•	40
	220V	A	
The max current is in DC1 with $L/R \le 1$ ms with 3 poles in series		•	
	110V	A	8
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V 48V 75V 110V 220V ≤24V 48V 75V 110V	A A A A A A A A	12 11 7 6 – 14 14 8 8

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11BG0610A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 110VAC, 1NO AUXILIARY CONTACT

	220V	А	1
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	-
	48V	А	-
	75V	А	_
	110V	А	_
	220V	А	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	6
	48V	А	5
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	7
	48V	A	7
	75V	A	4
	110V	A	3
	220V	A	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	~	_
The max current le in DC3-DC3 with $L/R \le 15$ ms with 5 poles in series	<241	٨	0
	≤24V	A	9
	48V	A	9
	75V	A	5
	110V	A	4
	220V	A	0,5
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	A	-
	48V	А	-
	75V	А	_
	110V	А	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	16
	aM (IEC)	А	6
Making capacity (RMS value)		А	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC-3	W	0.36
Tightening torque for terminals			0.00
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal	Παλ		5
		Nim	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 110VAC, 1NO AUXILIARY CONTACT

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lbin 9 max 2 Max number of wires simultaneously connectable Nr. Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm² 0.75 mm² 2.5 max Flexible c/w lug conductor section 1.5 min mm² max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 min mm² 2.5 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 180 g Conductor section AWG/kcmil conductor section 12 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 2.9 **Operating current DC13** 24V А 2.9 48V А 1.4 60V А 1.2 110V А 0.6 125V А 0.55 220V А 0.3 600V А 0.1 Operations Mechanical life 20000000 cycles Electrical life 500000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 500000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 110VAC, 1NO AUXILIARY CONTACT

rated / to voltage at t	50/60Hz			V	110
AC operating voltage					
	of 50/60Hz coil	powered at 50Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out		0/110	20
			min	%Us %Us	20 55
		powered at 60Hz	max	%05	55
		powered at 60H2 pick-up			
		ρισκ-αρ	min	%Us	80
			max	%Us	115
		drop-out	Пах	/000	110
			min	%Us	20
			max	%Us	55
AC average coil cons	sumption at 20°C				
5	•	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 po	wered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding				W	0.95
Max cycles frequency				/	0000
Mechanical operation	1				3600
				cycles/h	
Operating times	aantral			cycles/II	
Average time for Us of				cycles/II	
	control in AC			cycles/fi	
		Closing NO	min		
		Closing NO	min max	ms	12
		-	min max		
		Closing NO Opening NO		ms	12 21
		-	max	ms ms	12
		-	max	ms ms ms	12 21 9
		Opening NO	max	ms ms ms	12 21 9
		Opening NO Closing NC	max min max	ms ms ms ms	12 21 9 18
		Opening NO	max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26
		Opening NO Closing NC	max min max min	ms ms ms ms ms	12 21 9 18 17 26 7
	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms ms	12 21 9 18 17 26 7
	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min max min	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min	ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min	ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2

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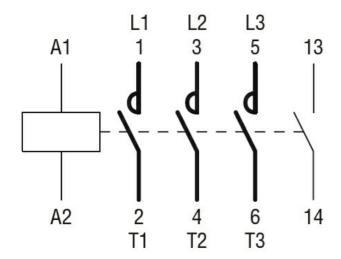
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 110VAC, 1NO AUXILIARY CONTACT

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	Opening	NC		
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA) for t	hree-phase AC motor			
		at 480V	А	4.8
		at 600V	A	3.9
Yielded mechanical perform				
for	single-phase AC motor	110/1001		
		110/120V	HP	0.3
		230V	HP	1
for	three-phase AC motor	200/208V	ШΒ	1 5
		200/208V 220/230V	HP HP	1.5 2
		460/480V	нР НР	2 3
		480/480V 575/600V	HP	3
General USE		575,000 V		0
	ntactor			
		AC current	А	16
Short-circuit protection fuse	e, 600V			-
-	h fault			
5		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
Sta	indard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxiliary co Ambient conditions	ontacts according to UL			A600 - Q600
Temperature				
Op	erating temperature			
		min	°C	-50
		max	°C	+70
Sto	orage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				
4.4 (0.17") ((2.24") (1.01) (1.02) (44 (1.73") (1.73") (1.37") (0.12 (0.12	58 (228 ^{°)} 59	57
(0.33") (0.33")		<u>44</u> (1.73")		89.2 (3.51")

Wiring diagrams





Certifications and compliance

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