



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

OVE electric ENERGY AND AUTOMATION

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

11BG0610A110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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

11BG0610A110

lbin 9 max 2 Max number of wires simultaneously connectable Nr. Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm<sup>2</sup> 0.75 mm<sup>2</sup> 2.5 max Flexible c/w lug conductor section 1.5 min mm<sup>2</sup> max mm<sup>2</sup> 2.5 Flexible with insulated spade lug conductor section mm<sup>2</sup> 1.5 min mm<sup>2</sup> 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

11BG0610A110



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

11BG0610A110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



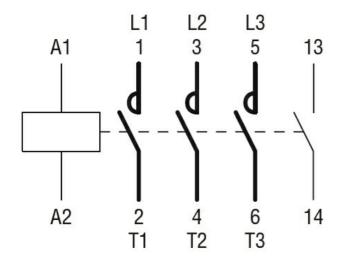
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 110VAC, 1NO AUXILIARY CONTACT

11BG0610A110

	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 <sup>°)</sup> 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