



Product designation			Power contacto
Product type designation			BG09
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		А	20
Operational current le			
AC-1 (≤	40°C)	А	20
AC-1 (≤	55°C)	А	18
AC-1 (≤	70°C)	А	15
AC-3 (≤440V ≤	55°C)	А	9
AC-4 (400V)	А	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
		kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
		kW	8
		kW	14
		kW	16
	690V	kW	22
IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series			
	≤24V	А	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	-
EC max current le in DC1 with L/R \leq 1ms with 2 poles in series			
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0 A) (•	4.0
	≤24V	A	16
	48V	A	16
	75V	А	10
	110V	А	10



11BG0901A23060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 230VAC, 1NC AUXILIARY CONTACT

220V А 2 IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series ≤24V А 16 48V А 16 75V 10 А 110V А 10 220V А 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V А 7 48V 6 А 75V 2 А 1 110V А 220V А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V А 8 48V 8 А 75V А 5 110V А 4 220V А _ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V А 10 48V 10 А 75V А 6 110V А 5 220V А 0,8 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V А 10 48V А 10 75V А 6 110V А 5 220V А 0.8 Short-time allowable current for 10s (IEC/EN60947-1) А 96 Protection fuse gG (IEC) А 20 aM (IEC) А 10 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) W 4 lth 0.81 AC-3 W Tightening torgue for terminals

rightening torque for terrinduo			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9



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Max number of wires	simultaneously connectable	max	Ibin Nr.	9
Conductor section			INI.	۷
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section	max		12
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
	0	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	ation according to IEO/EN COEOO			IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
				35mm
Weight			g	186
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chai	racteristics			
Thermal current Ith			A	10
EC/EN 60947-5-1 de				A600 - Q600
Operating current AC	215			
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	212			
		110V	A	2.9
Operating current DC	213			
Operating current DC	213	24V	А	2.9
Operating current DC	213	48V	A A	1.4
Operating current DC	213	48V 60V		1.4 1.2
Operating current DC	213	48V 60V 110V	А	1.4 1.2 0.6
Operating current DC	213	48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
Operating current DC	213	48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3
	213	48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
Operations	213	48V 60V 110V 125V 220V	A A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	213	48V 60V 110V 125V 220V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life	213	48V 60V 110V 125V 220V	A A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		48V 60V 110V 125V 220V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data		48V 60V 110V 125V 220V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	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	48V 60V 110V 125V 220V 600V	A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

OV electric ENERGY AND AUTOMATION

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230VAC, INC AUXILIARY CONTACT

Rated AC voltage at 6	i0Hz		V	230
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out		0/11	
		min	%Us	20
		max	%Us	55
C average coil cons				
	of 50/60Hz coil 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 powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding			W	0.95
lax cycles frequency				0000
lechanical operation			cycles/h	3600
Operating times				
verage time for Us c				
	in AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
		max	ms	18
	Closing NC			
		min	ms	17
		max	ms	26
	Opening NC			_
		min	ms	7
		max	ms	17
	in DC			
	Closing NO			10
		min	ms	18
		max	ms	25
	Opening NO			0
		min	ms	2
		max	ms	3
	Closing NC			2
		min	ms	3
		max	ms	5
	Opening NC			11
		min	ms	11
Il toobnical data		max	ms	17
JL technical data) for three phase AQ motor			
uii-load current (FLA) for three-phase AC motor			7.0
		at 480V	A	7.6
		at 600V	А	6.1

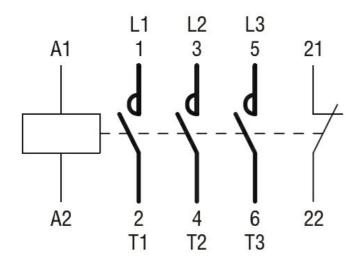
11BG0901A23060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Yielded mechanica	•			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
	Contactor	AC current	А	20
Short-circuit protec	tion fuse 600V			20
	High fault			
	riigir lauit	Short circuit current	L۸	100
			kA ^	
		Fuse rating	A	30
	<u></u>	Fuse class		J
	Standard fault	-		_
		Short circuit current	kA	5
		Fuse rating	A	30
		Fuse class		RK5
	ixiliary contacts according to UL			A600 - Q600
Ambient conditions	;			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	0	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				3
4.4 (0.17")	14 17") 57 (2.24")		(2.28°) 5	57 .24") RF9
8.5 (0.33") 8.5 (0.33")		44 (1.73")		89.2 (3.51")

Wiring diagrams





Certifications and compliance

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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