



Product designation			Power contactor
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
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
			10



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	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	А	10
	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	А	6
	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	8
	48V	A	8
	48V 75V	A	5
	110V	A	4
	220V	A	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	~	
	≤24V	А	10
	48V	A	10
	48V 75V	A	6
	110V	A	5
	220V	A	
IFC may autrent to in DC2 DC5 with L/D < 15mg with 4 palas in series	2200	A	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	<241	٨	10
	≤24V	A	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	A	20
	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
			-



Max aureles a f 1		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	2001		10
	Flowible w/o lug conductor agation	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	IIIdA	111111	2.0
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max		2.0
		min	mm²	1.5
		max	mm²	2.5
		max		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				, , , , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
Fiving				Screw / DIN rai
Fixing				35mm
Weight			g	182
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			
		0001/	Α	3
		230V		
		400V	А	1.9
			A A	
Operating current DC	12	400V 500V	A	1.9 1.4
		400V		1.9
Operating current DC Operating current DC		400V 500V 110V	A	1.9 1.4 2.9
		400V 500V 110V 24V	A A A	1.9 1.4 2.9 2.9
		400V 500V 110V 24V 48V	A A A A	1.9 1.4 2.9 2.9 1.4
		400V 500V 110V 24V 48V 60V	A A A A A	1.9 1.4 2.9 2.9 1.4 1.2
		400V 500V 110V 24V 48V 60V 110V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6
		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	1.9 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	213	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 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	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 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 B ²	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

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	0/60Hz			V	230
AC operating voltage					
	of 50/60Hz coil po				
		pick-up		0/11-	7-
			min	%Us %Us	75
		drop-out	max	%08	115
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	owered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out	_		
			min	%Us	20
<u></u>	1. 1. 00%O		max	%Us	55
AC average coil consu		word at 504-			
	of 50/60Hz coil po		in-rush	VA	30
			holding	VA VA	4
	of 50/60Hz coil po	owered at 60Hz	noiding	V/ \	•
	01 007 001 12 0011 pt		in-rush	VA	25
			holding	VA	3
	of 60Hz coil powe	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation Operating times				cycles/h	3600
Operating times					
	ontrol				
Average time for Us c					
	ontrol in AC	Closing NO			
		Closing NO	min	ms	12
		Closing NO	min max	ms ms	12 21
		Closing NO Opening NO	min max	ms ms	12 21
		Opening NO	max	ms	21
			max min max	ms ms ms	21 9 18
		Opening NO	max min max min	ms ms ms ms	21 9 18 17
		Opening NO Closing NC	max min max	ms ms ms	21 9 18
		Opening NO	max min max min max	ms ms ms ms ms	21 9 18 17 26
		Opening NO Closing NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26 7
	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms ms	21 9 18 17 26
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	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	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26 7
	in AC	Opening NO Closing NC Opening NC	max min max min max min max min	ms ms ms ms ms ms ms	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 min	ms ms ms ms ms ms ms	21 9 18 17 26 7 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	21 9 18 17 26 7 17 18 25
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25 2 3
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min	ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25 2

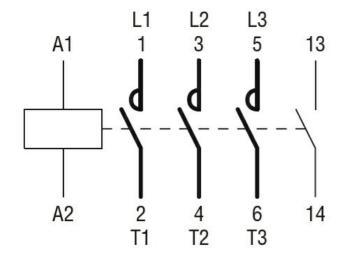
11BG0910A230 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



	Opening	g NC		
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (F	LA) for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanica	al performance			
	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
<u> </u>		575/600V	HP	5
General USE				
	Contactor		^	20
<u></u>		AC current	A	20
Short-circuit protect				
	High fault		1. 4	400
		Short circuit current	kA A	100
		Fuse rating Fuse class	A	30
	Standard fault	Fuse class		J
	Standard Tault	Short circuit current	kA	5
		Fuse rating	A	30
Contact rating of a	uxiliary contacts according to UL	T use rating	Λ	A600 - Q600
Ambient conditions				1000 0000
Temperature				
	Operating temperature			
	operating temperature	min	°C	-50
		max	°Č	+70
	Storage temperature		-	
	- · · · · · · · · · · · · · · · · · · ·	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				
	4.4 1.17") (2.24")		(2.28") 5	57 24") RE9 (3.51") 7.6 (0.30"
		(1.73")		(3.51")
Wiring diagrams				



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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