



Product designation Product type designation			Power contactor BG09
Contact characteristics			D005
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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms 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			4.0
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10



11BG0901A12060 THREE-POLE CONTACTOR, IEC OPERATING C

CURRENT IE (AC3) = 9A, AC COIL 60HZ,
120VAC, 1NC AUXILIARY CONTACT

	220V	А	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	Α	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		-
	≤24V	А	7
	48V		
		A	6
	75V	A	2
	110V	A	1
	220V	A	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	Α	8
	48V	А	8
	75V	А	5
	110V	А	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
	75V	A	6
	110V	А	5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			00
		۸	20
	gG (IEC)	A	20
	aM (IEC)	<u>A</u>	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)			
	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals	//0/0	**	0.01
	min	Nim	0.9
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



**11BG0901A12060** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 120VAC, 1NC AUXILIARY CONTACT

Max number of wires	simultaneously connectable	max	Ibin Nr.	9
Conductor section			INI.	2
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			•=
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
	-	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when
•				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
A 111		max		12
Auxiliary contact char	acteristics		٨	10
Thermal current Ith			A	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC	15	0001	٨	0
		230V	A	3
		400V	A	1.9
Operating current DC		500V	A	1.4
Operating current DC	12	440\/	^	2.0
		110V	А	2.9
		24V	A	2.9
		24V 48V	A A	2.9 1.4
		24V 48V 60V	A A A	2.9 1.4 1.2
		24V 48V 60V 110V	A A A A	2.9 1.4 1.2 0.6
		24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
		24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC		24V 48V 60V 110V 125V 220V	A A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life		24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life		24V 48V 60V 110V 125V 220V	A A A A A A	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	24V 48V 60V 110V 125V 220V	A A A A A A cycles	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		24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	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	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	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 <sup>2</sup>	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

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120VAC, INC AUXILIARY CONTACT

	60Hz			V	120
AC operating voltag					
	of 60Hz coil po	owered at 60Hz			
		pick-up		0/11	
			min	%Us	75
		drop out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	20 55
AC average coil cor	sumption at 20°C		Пах	/003	55
to avoiago con cor		il powered at 50Hz			
	01 00/00112 00		in-rush	VA	30
			holding	VA	4
	of 50/60Hz co	il powered at 60Hz	0		
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil po	owered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holdir	-			W	0.95
Max cycles frequen					
Mechanical operatic	n			cycles/h	3600
Operating times					
Average time for Us					
	in AC				
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	Пах	1113	21
		oponing ito	min	ms	9
			max	ms	18
		Closing NC			
		C C	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			4.0
			min	ms	18
		Opening NO	max	ms	25
			min	me	2
			min max	ms ms	2
			min max	ms ms	2 3
		Closing NC	max	ms	3
					3
			max	ms ms	3
		Closing NC	max	ms ms	3
		Closing NC	max min max	ms ms ms	3 3 5
JL technical data		Closing NC Opening NC	max min max min	ms ms ms ms	3 3 5 11
JL technical data Full-load current (FL	A) for three-phase	Closing NC Opening NC	max min max min max	ms ms ms ms ms	3 3 5 11 17
	A) for three-phase	Closing NC Opening NC	max min max min	ms ms ms ms	3 3 5 11

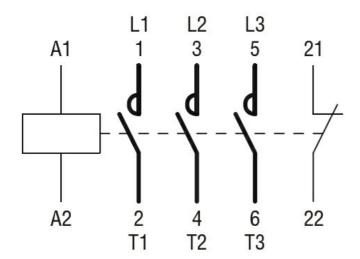
11BG0901A12060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Yielded mechanical po	erformance			
neided meenamearp	for single-phase AC motor			
	·····g·· p····c· ····	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			
		AC current	А	20
Short-circuit protection	n fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
		Fuse class		RK5
Contact rating of auxil	iary 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 & Protecti	on			
Pollution degree				3
Dimensions				
4.4 (0.17") (0	57 (2.24") (2.	44 (1.73") (1.73") (1.73") (0.5 (1.5 (0.5) (0.5	(2.28°) S	57 24") RF9
(0.33") (0.33") (0.33") (0.33")	(1.57.)	(0.12 (0.12 (1.73")		89.2 (3.51")

Wiring diagrams





## Certifications and compliance

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