



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	Παλ	A	20
Operational current le		Λ	20
	AC-1 (≤40°C)	А	20
	AC-1 (≤40 C) AC-1 (≤55°C)		18
		A	
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	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	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
,	≤24V	А	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	2201	Λ	
	≤24V	۸	16
		A	
	48V	A	16
	75V	A	10
	110V	А	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	Α	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	7
	48V	A	6
	48V 75V	A	2
	110V	A	1
			I
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	Α	8
	48V	Α	8
	75V	А	5
	110V	А	4
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	10
	48V	A	10
	48V 75V	A	6
			5
	110V	A	
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	A	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)	<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)			
	lth	W	4
		••	
		W	0.81
Tightening torque for terminals	AC-3	W	0.81
Tightening torque for terminals	AC-3		
Tightening torque for terminals	AC-3 min	Nm	0.8
Tightening torque for terminals	AC-3 min max	Nm Nm	0.8 1
Tightening torque for terminals	AC-3 min max min	Nm Nm Ibin	0.8 1 9
Tightening torque for terminals	AC-3 min max	Nm Nm	0.8 1
	AC-3 min max min	Nm Nm Ibin	0.8 1 9 9
	AC-3 min max min	Nm Nm Ibin	0.8 1 9
Tightening torque for terminals	AC-3 min max min max	Nm Nm Ibin Ibin	0.8 1 9 9



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Max number of wires	simultaneously connectable	max	Ibin Nr.	9
Conductor section	simultaneously connectable		INF.	2
Conductor Section	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			
		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
Waight			~	35mm 180
Weight Conductor section			g	160
Conductor section	AWG/kcmil conductor section			
	AWG/Kernii conductor section	moy		12
Auxiliary contact char	actoristics	max		12
Thermal current Ith			А	10
	esignation			
IEC/EN 60947-5-1 de				A600 - Q600
		230V		A600 - Q600
IEC/EN 60947-5-1 de		230V 400V	A	A600 - Q600 3
IEC/EN 60947-5-1 de		400V		A600 - Q600 3 1.9
IEC/EN 60947-5-1 de Operating current AC	15		A A	A600 - Q600 3
IEC/EN 60947-5-1 de	15	400V	A A	A600 - Q600 3 1.9 1.4
IEC/EN 60947-5-1 de Operating current AC Operating current DC	15	400V 500V	A A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 de Operating current AC	15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
IEC/EN 60947-5-1 de Operating current AC Operating current DC	15	400V 500V 110V	A A A A	A600 - Q600 3 1.9 1.4 2.9
IEC/EN 60947-5-1 de Operating current AC Operating current DC	15	400V 500V 110V 24V	A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9
IEC/EN 60947-5-1 de Operating current AC Operating current DC	15	400V 500V 110V 24V 48V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4
IEC/EN 60947-5-1 de Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2
IEC/EN 60947-5-1 de Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	115 112 113 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 A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	115 112 113 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 A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	115 112 113 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 A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 48VAC, 1NC AUXILIARY CONTACT

Rated AC voltage at 5	0/60Hz			V	48
AC operating voltage					
	of 50/60Hz coil p	owered at 50Hz			
		pick-up			
			min	%Us	75
		_	max	%Us	115
		drop-out		0/11	
			min	%Us	20
	of 50/60Hz coil p	owered at 60Hz	max	%Us	55
	01 30/00112 0011 p	pick-up			
		plot up	min	%Us	80
			max	%Us	115
		drop-out			
		·	min	%Us	20
			max	%Us	55
AC average coil consu					
	of 50/60Hz coil p	owered at 50Hz			
			in-rush	VA	30
	(= 0 (0 0)		holding	VA	4
	of 50/60Hz coil p	owered at 60Hz		\ /A	05
			in-rush holding	VA VA	25 3
	of 60Hz coil pow	ered at 60Hz	noiding	٧٨	5
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	<20°C 50Hz		ů.		0.05
				W	0.95
Max cycles frequency				W	0.95
Max cycles frequency Mechanical operation	-20 0 00112			W cycles/h	
Max cycles frequency Mechanical operation Operating times					
Max cycles frequency Mechanical operation	ontrol				
Max cycles frequency Mechanical operation Operating times		Olacia e NO			
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO	min	cycles/h	3600
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO	min	cycles/h ms	3600
Max cycles frequency Mechanical operation Operating times	ontrol	-	min max	cycles/h	3600
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO Opening NO	max	cycles/h ms ms	3600 12 21
Max cycles frequency Mechanical operation Operating times	ontrol	-		cycles/h ms	3600
Max cycles frequency Mechanical operation Operating times	ontrol	-	max	cycles/h ms ms ms	3600 12 21 9
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	max	cycles/h ms ms ms	3600 12 21 9
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO Closing NC	max min max	cycles/h ms ms ms ms	3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	max min max min max	cycles/h ms ms ms ms ms ms	3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO Closing NC	max min max min max min	cycles/h ms ms ms ms ms ms	3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC	max min max min max	cycles/h ms ms ms ms ms ms	3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO Closing NC Opening NC	max min max min max min	cycles/h ms ms ms ms ms ms	3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC	max min max min max min max min	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25 2
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25 2

11BG0901A048 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



UL technical data

11BG0901A048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 48VAC, 1NC AUXILIARY CONTACT

POLE CONTACTOR, IEC OPERATING CU	· ·	, .	AC COIL 50/60H XILIARY CONTAC	
Opening NC				
	min	ms	11	
	max	ms	17	
phase AC motor				
	at 480V	А	76	

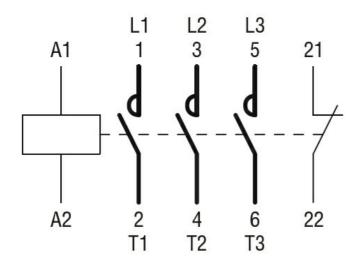
Full-load current (Fl	_A) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	А	6.1
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	А	20
Short-circuit protect	ion 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 au	xiliary 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 & Prote	ction			
Pollution degree				3
Dimensions				
44 (0.17") (0.		44 (1.73") 0 </td <td>1 [228") 5</td> <td>57 24") RF9</td>	1 [228") 5	57 24") RF9
8.5 (0.33") 8.5			L	-7.6

 -7.6 (0.30")





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 48VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

oompnanoo	Comp	liance
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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