



Product designation Product type designation			Power contactor 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)	Α	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	A	12
	48V	A	10
	75V	A	4
	110V	A	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
IFO may automatic in DO4 with 1/D < 4ma with 0 material	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0.1.1	۸	4.0
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT

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		-	
	220V	A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	Α	7
	48V	Α	6
	75V	А	2
	110V	А	1
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2201	~~~~	
The max current is in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	10 AV /		0
	≤24V	A	8
	48V	A	8
	75V	А	5
	110V	А	4
	220V	А	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	-		
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	А	5
	220V	Α	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	A	5
	220V		
	2201	<u>A</u>	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)		А	92
Breaking capacity at voltage			
	440V	А	72
	500V	A	72
	690V	A	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			
	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



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Max number of wires	s simultaneously connectable	max	Ibin Nr.	9
Conductor section	simultaneously connectable		INF.	2
	AWG/Kcmil			
	AWO/Keniii	max		12
	Flexible w/o lug conductor section	Пах		12
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
	5	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Dower terminal prote	ection according to IEC/EN 60529			IP20 when
Power terminal prote	clion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
_				35mm
Weight			g	182
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact cha	racteristics		•	4.0
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d				A600 - Q600
Operating current AC	-10	0001		0
		230V	A	3
		400∨ 500∨	A A	1.9 1.4
Operating current D		500 v	A	1.4
Operating current DC	512	110V	А	2.9
On a ratio a current D		1100	A	2.9
	טו כ			
Operating current DC		2417	Λ	·) u
Operating current DC		24V 48V	A A	2.9 1 <i>4</i>
Operating current DC		48V	А	1.4
Operating current DC		48V 60V	A A	1.4 1.2
Operating current D		48V 60V 110V	A A A	1.4 1.2 0.6
Operating current D		48V 60V 110V 125V	A A A A	1.4 1.2 0.6 0.55
Operating current D		48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3
		48V 60V 110V 125V	A A A A	1.4 1.2 0.6 0.55
Operations		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		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		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	10d according to EN/ISO 13489-1	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	-	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	me	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 500000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B	-	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

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Rated AC voltage at 5	60/60Hz			V	230
AC operating voltage					
	of 50/60Hz coil p				
		pick-up		0/11-	- -
			min	%Us %Us	75 115
		drop-out	max	%05	115
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil p	owered at 60Hz		,	
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consi					
	of 50/60Hz coil p	oowered at 50Hz	in much	VA	20
			in-rush	VA VA	30 4
	of 50/60Hz coil p	owered at 60Hz	holding	٧A	7
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	vered at 60Hz			
	·		in-rush	VA	30
			holding	VA	4
Dissipation at holding			holding	VA W	4 0.95
Max cycles frequency			holding	W	0.95
Max cycles frequency Mechanical operation			holding		0.95
Max cycles frequency Mechanical operation Operating times			holding	W	0.95
Max cycles frequency Mechanical operation	ontrol		holding	W	0.95
Max cycles frequency Mechanical operation Operating times			holding	W	0.95
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO		W cycles/h	0.95 3600
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO	min	W cycles/h ms	0.95 3600 12
Max cycles frequency Mechanical operation Operating times	ontrol	-		W cycles/h	0.95 3600
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO Opening NO	min	W cycles/h ms	0.95 3600 12
Max cycles frequency Mechanical operation Operating times	ontrol	-	min max	W cycles/h ms ms	0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	ontrol	-	min max min	W cycles/h ms ms ms	0.95 3600 12 21 9
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	min max min	W cycles/h ms ms ms	0.95 3600 12 21 9 18 17
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO Closing NC	min max min max	W cycles/h ms ms ms ms	0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO Closing NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO Closing NC Opening NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 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	min max min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 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	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 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	min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles frequency Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2

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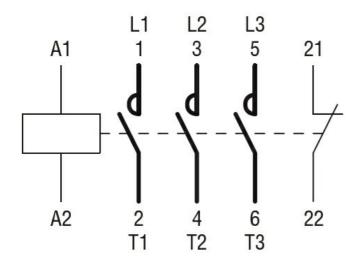
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	Opening	NC		
	0 P 0 9	min	ms	11
		max	ms	17
UL technical data				
Full-load current (FL/	A) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	А	6.1
Yielded mechanical p	performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	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 protection	on fuse, 600V			
	High fault			
	C C	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	30
		Fuse class		RK5
Contact rating of aux	iliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°Č	+70
	Storage temperature		~	
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions				
		14		
4.4 (0.17") (0.17"			(2	57
	50 (1.97") (2.28")	94.2 3.71") 0 0 0 0 0 0 1 1 1	(228")	
8.5 (0.33") (0.38") (0.38")	(1.37")	(1.37") 3.2 (1.37") (0.12"		RF9 -7.6 -89.2 (0.30")
8.5 (0.33")		44 — 4 (1.73")		89.2 (0.30") (3.51")
Wiring diagrams				



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT



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