



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		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	160
	AC-3 (≤440V ≤55°C)	Α	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
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)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)		147	
	Ith	W	4
Tield tearing the group for the group in all	AC3	W	0.81
Tightening torque for terminals			0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
Tightening torque for coil terminal	max	lbin	0.74



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		min	Nm	0.8
		min max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
Max number of wires s	simultaneously connectable	max	nr.	2
Conductor section	, , , , , , , , , , , , , , , , , , , ,			
	Flexible w/o lug conductor section			
	J	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
Mechanical features	tion according to IEC/EN 60529			IP20 when wired
Operating position				
Sperating position		normal		vertical plan
		allowable		±30°
		<u> </u>		Screw / DIN rail
Fixing				35mm
Weight			g	214
Auxiliary contact chara	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC1	15	0001		
		230V	A	3
		400V 500V	A	1.9
Operating current DC1	12	3007	A	1.4
Operating current DC	12	110V	Α	2.9
Operating current DC1	13	1100		2.5
operating darrent bo		24V	Α	2.9
		48V	A	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data	0d according to EN/ISO 12490 1			
renomiance level BT	0d according to EN/ISO 13489-1	rated load	cycles	500000
		mechanical load	cycles cycles	2000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	moonamoa load	oy oles	yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
5	•	min	V	12



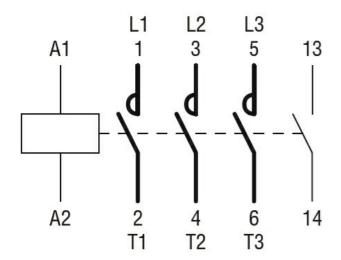
			max	V	575
AC operating voltage a	at 20°C				
	of 50/60Hz coil pow	ered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pow	ered at 60Hz	مامد سر من	١/٨	25
			in-rush holding	VA VA	25 3
	of 60Hz coil powere	d at 60Hz	Holding	VA	3
	or our iz con powere	u at 00112	in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz		<u> </u>	W	0.9
DC coil operating					
DC rated control voltage	ge				
			min	V	6
			max	V	480
DC operating voltage					
	pick-up			0//:	7.5
			min	%Us	75
	drap out		max	%Us	115
	drop-out		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C		тих	7000	20
, wordgo com comodnip			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency			<u> </u>		
Machanical aparations					2000
Mechanical operations				cycles/h	3600
Operating times				cycles/h	3600
	ontrol			cycles/h	3600
Operating times				cycles/h	3600
Operating times	ontrol	Closing NO			
Operating times	ontrol	Closing NO	min	ms	12
Operating times	ontrol		min max		
Operating times	ontrol	Closing NO Opening NO	max	ms ms	12 21
Operating times	ontrol		max min	ms ms ms	12 21 9
Operating times	ontrol	Opening NO	max	ms ms	12 21
Operating times	ontrol		max min	ms ms ms	12 21 9
Operating times	ontrol	Opening NO	max min max	ms ms ms	12 21 9 18
Operating times	ontrol	Opening NO	max min max min	ms ms ms ms	12 21 9 18 17 26
Operating times	ontrol	Opening NO Closing NC	max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Operating times	ontrol in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	12 21 9 18 17 26
Operating times	ontrol	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Operating times	ontrol in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	ontrol in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
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Operating times	ontrol in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
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Operating times	ontrol in AC	Opening NO Closing NC Opening NO Closing NO Opening NO Closing NO	min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17



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		min	ms	11	
		max	ms	17	
UL technical data					
Full-load current (FLA) for t	hree-phase AC motor				
		at 480V	Α	7.6	
		at 600V	Α	6.1	
Yielded mechanical perform	nance				
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	
Contact rating of auxiliary co	ontacts according to UL			A600 - Q600	
General USE					
Cor	ntactor				
		AC current	Α	20	
Ambient conditions					
Temperature					
Ор	erating temperature				
		min	°C	-40	
		max	°C	60	
Sto	rage temperature				
		min	°C	-55	
		max	°C	70	
Max altitude			m	3000	
Resistance & Protection					
Pollution degree				3	
Dimensions					
4.4 (0.17")					





Certifications and 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 6 classification

EC000066 - Power contactor, AC switching