



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	Ibin	0.74



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
Max number of wires	simultaneously connectable		nr.	2
Conductor section	•			-
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
	3	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	on .		
	1 3	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Mechanical features	<u> </u>			
Operating position				
. 51		normal		vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	220
Auxiliary contact char	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	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				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 8	50/60Hz, 60Hz			
-		min	V	12



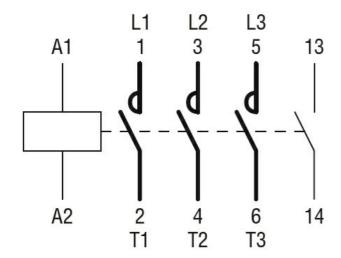
			max	V	575
AC operating voltage a	at 20°C				
	of 50/60Hz coil po	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.9
DC coil operating					
DC rated control voltage	ge				
			min	V	6
			max	V	480
DC operating voltage					
	pick-up				
	•		min	%Us	75
			max	%Us	115
	drop-out				_
	•		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operations					
iviechanical operations	5			cycles/h	3600
	5			cycles/h	3600
Operating times				cycles/h	3600
	ontrol			cycles/h	3600
Operating times		Closing NO		cycles/h	3600
Operating times	ontrol	Closing NO	min	cycles/h	12
Operating times	ontrol	Closing NO	min	ms	12
Operating times	ontrol				
Operating times	ontrol	Closing NO Opening NO	min max	ms ms	12 21
Operating times	ontrol		min max min	ms ms	12 21 9
Operating times	ontrol		min max	ms ms	12 21
Operating times	ontrol	Opening NO	min max min	ms ms	12 21 9
Operating times	ontrol	Opening NO	min max min max	ms ms ms	12 21 9 18
Operating times	ontrol	Opening NO	min max min max min	ms ms ms ms	12 21 9 18
Operating times	ontrol	Opening NO Closing NC	min max min max min	ms ms ms ms	12 21 9 18
Operating times	ontrol	Opening NO Closing NC	min max min max min max	ms ms ms ms	12 21 9 18 17 26
Operating times	ontrol	Opening NO Closing NC	min 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	min 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 Opening NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
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Operating times	ontrol in AC	Opening NO Closing NC Opening NC	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 Closing NO Opening NO	min max min max min max min max min max min max	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	min max	ms	12 21 9 18 17 26 7 17 18 25 2 3



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		min	ms	11	
		max	ms	17	
UL technical data					
Full-load current (FLA	for three-phase AC motor				
		at 480V	Α	7.6	
		at 600V	Α	6.1	
Yielded mechanical p					
	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	
	liary contacts according to UL			A600 - Q600	
General USE					
	Contactor				
		AC current	Α	20	
Ambient conditions					
Temperature	_				
	Operating temperature	_			
		min	°C	-40	
	-	max	°C	60	
	Storage temperature				
		min	°C	-55 5	
8.6 (24)		max	°C	70	
Max altitude	•		m	3000	
Resistance & Protect	ion				
Pollution degree				3	
Dimensions					
44 (0.17") (0.17") (0.33") (0.33") Wiring diagrams					





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