





Product designation Product type designation			Power contactor BG09
Contact characteristics			2000
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	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	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
D. I. J	690V	kW	5
Rated operational power AC-1 (T≤40°C)	0001/	1-107	0
	230V	kW	8
	400V	kW	14
	500V 690V	kW kW	16 22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 V	KVV	
TEC That current le in DCT with L/K > This with 1 poles in series	≤24V	Α	12
	324 V 48 V	A	10
	75V	A	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	15
	48V	A	14
	75V	Α	9
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			_
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	A	10
	110V	A	10
	220V	A	2
IFO	2201	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	_
	≤24V	Α	7
	48V	Α	6
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		- , ,	0,0
The max current to in 500-500 with E/N = 10m3 with 4 poles in series	≤24V	Α	10
	48V		10
		A	
	75V	Α	6
	110V	Α	5
	220V	Α	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)	()	A	92
Breaking capacity at voltage			<del>-</del>
broaking outputity at voltage	4401/	۸	72
	440V	A	72
	500V	A	72
	690V	Α	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			
9 · · · · · · · · · · · · · · · · · · ·	min	Nm	0.8
	max	Nm	
			1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9





		max	lbin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	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
	- '			IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	177
Conductor section				
	AWG/kcmil conductor section			
	/ W G/Koriiii Goriadatar Godilori	max		12
Auxiliary contact chai	racteristics	Пах		12
Thermal current Ith	(40.01101100		А	10
IEC/EN 60947-5-1 de	esignation		,,	A600 - Q600
Operating current AC	-			71000 0000
operating current Ac	710	230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating ourrest DC	212	300 V	^	1.4
Operating current DC	,12	440)/	۸	0.0
O		110V	A	2.9
Operating current DC	713			0.0
		- · · ·		- ) ()
		24V	A	2.9
		48V	Α	1.4
		48V 60V	A A	1.4 1.2
		48V 60V 110V	A A A	1.4 1.2 0.6
		48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
		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	1.4 1.2 0.6 0.55
		48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3 0.1
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
Mechanical life Electrical life		48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data		48V 60V 110V 125V 220V	A A A A A cycles	1.4 1.2 0.6 0.55 0.3 0.1
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
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
Mechanical life Electrical life Safety related data	·	48V 60V 110V 125V 220V 600V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
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
	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





Rated AC voltage at 5	60/60Hz			V	48
C operating voltage					
	of 50/60Hz coil p				
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out		0/11-	00
			min	%Us	20
	of FO/COLLT poil of	owered at COLL	max	%Us	55
	of 50/60Hz coil p				
		pick-up	min	%Us	80
			max	%Us	115
		drop-out	max	7003	110
		drop out	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C				- <del>-</del>
	of 50/60Hz coil p	owered at 50Hz			
	P	· · · · · · · · · · · · · · · · · · ·	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	owered at 60Hz	<u> </u>		
	,		in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
					4 0.95
Dissipation at holding Max cycles frequency				VA W	0.95
Max cycles frequency Mechanical operation				VA	0.95
Max cycles frequency Mechanical operation Operating times				VA W	0.95
Max cycles frequency Mechanical operation	ontrol			VA W	0.95
Max cycles frequency Mechanical operation Operating times		Olasia a NO		VA W	0.95
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO	holding	VA W cycles/h	0.95 3600
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO	holding	VA W cycles/h	0.95 3600
Max cycles frequency Mechanical operation Operating times	ontrol	-	holding	VA W cycles/h	0.95 3600
Max cycles frequency Mechanical operation Operating times	ontrol	Closing NO Opening NO	holding min max	VA W cycles/h ms ms	0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	ontrol	-	holding  min  max  min	VA W cycles/h ms ms	0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	holding min max	VA W cycles/h ms ms	0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	ontrol	-	min max min max	VA W cycles/h ms ms	0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	min max min max	VA W cycles/h ms ms ms ms	0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO Closing NC	min max min max	VA W cycles/h ms ms	0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	min max min max	VA W cycles/h 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	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 in AC	Opening NO Closing NC	min max min max	VA W cycles/h 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	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 in AC	Opening NO Closing NC	min max 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 in AC	Opening NO Closing NC Opening NC	min max min max min max min max	VA W cycles/h 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 Opening NC	min max min max min max min max	VA 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 Closing NO	min max min max min max min max	VA 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 Closing NO Opening NO	min max min max min max min max	VA 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 Closing NO	min max min max min max min max min max min max	VA W cycles/h ms	0.95 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 Opening NO	min max min max min max min max min max min max	VA W cycles/h ms	0.95 3600  12 21 9 18 17 26 7 17  18 25

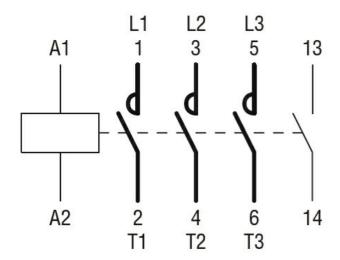


### Opening NC

	Opening i	NC .			
		min	ms	11	
		max	ms	17	
		IIIdX	1113	17	
UL technical data					
Full-load current (FLA	A) for three-phase AC motor				
		at 480V	Α	7.6	
		at 600V	Α	6.1	
Yielded mechanical p	erformance				
	for single-phase AC motor				
	rer emigre prieser re meter	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					
Johnson UUL	Ocatostan				
	Contactor				
		AC current	Α	20	
Short-circuit protectio	n fuse. 600V				
s sirodit protootio					
	High fault	<b></b>			
		Short circuit current	kA	100	
		Fuse rating	Α	30	
		Fuse class		J	
	0(	1 430 61433			
	Standard fault				
		Short circuit current	kA	5	
		Fuse rating	Α	30	
		Fuse class	, ,	RK5	
		Fuse class			
	liary contacts according to UL			A600 - Q	600
Ambient conditions					
Temperature					
remperature					
	Operating temperature				
		min	°C	-50	
		max	°C	+70	
	Storage temperature			-	
	Giorage temperature		۰.	00	
		min	°C	-60	
		max	°C	+80	
Max altitude			m	3000	•
	ion			2300	
Resistance & Protect	IIOII				
Pollution degree				3	
Dimensions					
4.4 (0.17") (0.17") (0.17") (0.17") (0.33") (0.38")	(2.24") (2.24") (3.24") (3.24")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.88)	RF9	
		44 - 5		89.2	-7.6 (0.30")
8.5 (0.33")		(1.73")	-	89.2 (3.51")	(0.30)
Wiring diagrams					

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 48VAC, 1NO AUXILIARY CONTACT



#### 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 classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching