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En l	99999

Product designation			Power contactor
Product type designation			BG09
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
Operational current le			
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-1 (T≤40°C)	0001	1 \ \ \ I	0
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse	- <i>(</i>)		
	gG (IEC)	A	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	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	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	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 mm²	0.75 2.5
	Flexible c/w lug conductor section	max	[[][]]	2.5
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor			
		min	mm² mm²	1.5
		max	mm-	2.5 IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30° Screw / DIN rail
Fixing				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			10
Auxiliary contact chara	octorictico	max		12
Thermal current Ith			А	10
Operations			<i>7</i> ,	
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1	rated load	cycles	500000
		mechanical load	cycles	2000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		-,	YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	110
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	, - P	min	%Us	75
		max	%Us	115
	drop-out		0/11-	20
		min max	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	Παλ	/003	
	pick-up			
		min	%Us	80
		max	%Us	115
	drop-out	min	%Us	20
		max	%Us %Us	20 55
AC average coil consu	umption at 20°C			-
-	of 50/60Hz coil powered at 50Hz			
			1/4	20

in-rush

VA

30



11BG09T2A110 FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 110VAC, 2NO AND 2NC

of 50/60Hz coil powered at 60Hz in-rush VA 25 indiding VA 3 of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 4 Dissipation at holding <20°C 50Hz W 0,95 Max cycles treauency cycles/h 3600 Werage time for Us control in AC in AC Closing NO min ms 12 Opening NO min ms 12 max ms 21 0 Opening NO min ms 17 max ms 17 max ms Opening NC min ms 7 max Max cycles frequency max ms 17 max Opening NO min ms 17 max ms 26 Opening NO min ms 18 max ms 25 Opening NO min ms 5 max ms 5 <tr< th=""><th></th><th></th><th>holding</th><th>VA</th><th>4</th></tr<>			holding	VA	4
Including VA 3 of 60Hz coil powered at 60Hz in-rush VA 30 Dissipation at holding \$20°C 50Hz W 4 Dissipation at holding \$20°C 50Hz W 4 Max cycles frequency cycles/t 6600 Operating time for Us control cycles/t 6600 Average time for Us control min ms 12 Average time for Us control min ms 21 Opening NO min ms 21 Opening NO min ms 17 in DC Closing NC min ms 17 in DC Closing NO min ms 2 Opening NO min ms 17 in DC Closing NO min ms 2 Opening NO min ms 2 2 Opening NC min ms 3 1 Opening NC min ms 3 1 Opening NC mi		of 50/60Hz coil powered at 60Hz			
in rush VA 30 holding VA 4 Dissipation at holding 520°C 50Hz W 0.95 Max cycles frequency W 0.95 Max cycles frequency Cycles/h 3600 Operating time for Us control min ms 12 Average time for Us control min ms 12 Opening NO min ms 12 Max max ms 13 Closing NO min ms 14 Opening NO min ms 17 Max ms 18 Closing NC min ms 7 In DC Closing NO min ms 7 max ms 17 In DC Closing NO min ms 18 10 11 11 Opening NO max ms 3 11 13 11 Opening NC min ms 3 11 11 Opening NC min ms 1 11 <td></td> <td></td> <td></td> <td></td> <td></td>					
in-rush holding VA VA 30 holding Dissipation at holding ±20°C 50Hz W 0.95 Max cycles fequency cycles/h 3600 Operating times cycles/h 3600 Average time for Us control in AC min ms 12 Opening NO min ms 21 Opening NO min ms 18 Closing NC min ms 7 Opening NC min ms 7 In DC Closing NO min ms 18 Opening NO min ms 17 max ms 26 Opening NC min ms 17 max ms 26 Opening NO min ms 18 max ms 25 Opening NO min ms 3 11 max ms 5 Opening NC min ms 5 6 6 1 U tabolic fillodid current (FLA) for t			holding	VA	3
holding VA 4 Dissipation at holding s20°C 50Hz W 0.95 Max cycles frequency cycles/h 36000 Operating times cycles/h 36000 Average time for Us control in AC min ms 12 Opening NO min ms 12 min ms 9 Closing NO min ms 17 max ms 26 Opening NC min ms 17 max ms 17 in DC Closing NO min ms 17 max ms 26 Opening NO min ms 17 max ms 17 in DC Closing NO min ms 17 max ms 3 Opening NO min ms 2 max ms 3 Opening NC min ms 3 1 max ms 1 Use donine INC min ms		of 60Hz coil powered at 60Hz	. .		
Dissipation at holding 220°C 50Hz W 0.95 Max cyclos frequency Mechanical operation cycles/h 3600 Ceretaling times Average time for Us control in AC Closing NO min ms 12 max ms 21 Opening NO min ms 9 max ms 18 Closing NC min ms 7 max ms 26 Opening NC min ms 17 To C Closing NO min ms 17 Opening NO min ms 18 Opening NO min ms 25 Opening NO min ms 25 Opening NC min ms 3 max ms 35 Opening NC min ms 11 max ms 55 Opening NC min ms 11 max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor Tell-load current (FLA) for three-phase AC motor Vielded mechanical performance for single-phase AC motor Tell-load Current (FLA) for three-phase AC motor Closing NC Max 0/2028/V HP 0.5 230/V HP 1.5 Tor three-phase AC motor 200/208/V HP 2 220/230/V HP 3 460/400/V HP 3 460/40/V HP 5 General USE Contactor					
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Mechanical operation cycles/h 3600 Operating times		S20 C 50H2		VV	0.95
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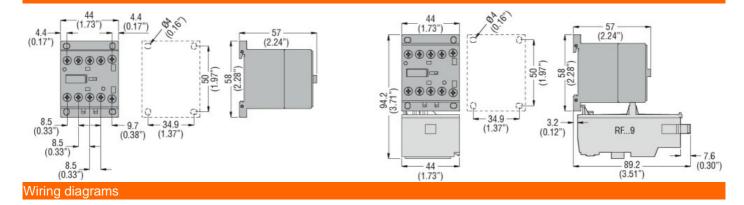
11BG09T2A110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

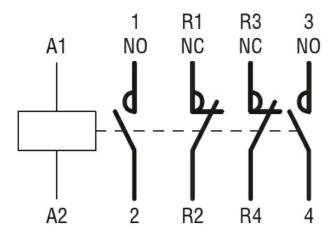


Ambient conditions

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Temperature
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remperature					
	Operating temperature				
		min	°C	-50	
		max	°C	+70	
	Storage temperature				
		min	°C	-60	
		max	°C	+80	
Max altitude			m	3000	
Resistance & Prot	tection				
Pollution degree				3	
Dimensions					





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 classificatio	n	
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching

