



Product designation Product type designation		Power contactor BG09
Contact characteristics		B000
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
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)		9
AC-4 (400V)	Α	4
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 ≤ 1ms with 1 poles in series		
≤24V		12
48V	Α	10
75V		4
110V		3
220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		
≤24V		15
48V		14
75V		9
110V		8
220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		
≤24V		16
48V		16
75V		10
110V		10
220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	_	
≤24V		16
48V		16
75V		10
110V		10
220V	Α	2



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IEC max current le in D	C3-DC5 with L/R ≤ 15ms with 1 poles in series			
	*	≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	Α	1
		220V	Α	_
IFC max current le in D	C3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	- , ,	
120 max canoni lo in B	Go Boo Will Err = Tollio Will 2 poloo in collec	≤24V	Α	8
		48V	A	8
		75V	A	5
		110V	A	4
150	00 00 00 00 00 00 00 00 00 00 00 00 00	220V	A	_
IEC max current le in D	C3-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 D	C3-DC5 with L/R ≤ 15ms with 4 poles in series			
	•	≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	A	5
		220V	A	0,8
Chart time allowable au	rrent for 100 (IEC/ENG0047.1)	220 V	A	
	rrent for 10s (IEC/EN60947-1)		A	96
Protection fuse		- (I=-0)	_	
		gG (IEC)	Α	20
		aM (IEC)	Α	10
Making capacity (RMS v	·		Α	92
Breaking capacity at vol	tage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (av	verage value)		mΩ	10
Power dissipation per per				
1 ower alcorpation per p	olo (avolago valuo)	Ith	W	4
		AC-3	W	0.81
Tightening torque for ter	rminale	AU-3	v v	0.01
rigintening torque for tel	IIIIIIais		N I.a.:	0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	lbin	9
Tightening torque for co	il terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	lbin	9
Max number of wires sir	multaneously connectable		Nr.	2
Conductor section	,			
2311440101 00011011	AWG/Kcmil			
	7.VV 0/1011111	may		12
	Florible w/e lug og skieter eastier	max		14
	Flexible w/o lug conductor section			0.75
		min	mm²	0.75



		max	mm²	2.5
	Flexible c/w lug conductor section			
	, and the second	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor sect	tion		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				propony miou
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	178
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics		^	40
Thermal current Ith	alam adia a		Α	10
IEC/EN 60947-5-1 des Operations	signation			A600
Mechanical life			cyclos	20000000
Electrical life			cycles cycles	500000
Safety related data			Cycles	300000
-	0d according to EN/ISO 13489-1			
	3	rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage	of 50/001 - acil resusant of 501 -			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	75
		max	%Us	115
	drop-out	Пах	7000	110
	1	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	115
	drop-out		0/11-	20
		min	%Us %Us	20 55
AC average coil consu	umption at 20°C	max	/005	JJ
A average con const	of 50/60Hz coil powered at 50Hz			
	5. 55/55/12 55/1 poworod at 50/12	in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz	- · · · · · · · · · · · · · · · · · · ·		
		in-rush	VA	25



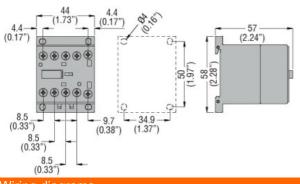
		holding	VA	3
	of 60Hz coil powered at 60Hz	riolaling	VA	<u> </u>
	or our iz con powered at our iz	in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
Max cycles frequency				0.00
Mechanical operation			cycles/h	3600
Operating times			, , , , , ,	
Average time for Us co	ontrol			
· ·	in AC			
	Closing NO			
	· ·	min	ms	12
		max	ms	21
	Opening NO)		
		min	ms	9
		max	ms	18
	Closing NC			
	3	min	ms	17
		max	ms	26
	Opening NO			
		min	ms	7
		max	ms	17
	in DC			
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NC)		
		min	ms	2
		max	ms	3
	Closing NC			
		min	ms	3
		max	ms	5
	Opening NC			
		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 pe				
	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	A	20
Short-circuit protection				
	High fault			
		Short circuit current	kA	100

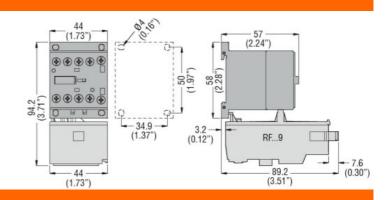


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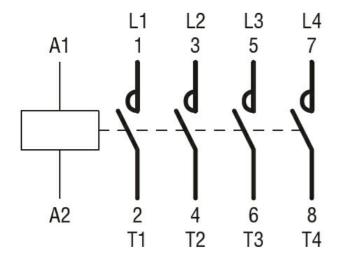
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude	<u> </u>		m	3000
Resistance & Protection	on			
Pollution degree				3

Dimensions





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



11BG09T4A024

FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 24VAC

CCC	
cULus	
EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching