



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			
- F	min	Hz	25
	max	Hz	400
Operational current le	max	• •	
operational outrent te	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤33°C) AC-1 (≤70°C)	A	15
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	9
	AC-3 (\$440V \$55 C) AC-4 (400V)	A	4
Dated enerational newer AC 1 (T<10°C)	AC-4 (400V)	^	4
Rated operational power AC-1 (T≤40°C)	0001/	1.3.67	0
	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	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			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal	max	15111	
rightering torque for contentinal	min	Nm	0.8
	max	Nm	1
	min	lbin	9
May number of uiron aimultaneas also accepts	max	Ibin	9
Max number of wires simultaneously connectable  Conductor section		Nr.	2



	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
Power terminal protection according to IEC/EN 60529				IP20 when properly wired
Mechanical features				properly whea
Operating position				
- F		normal		Vertical plan
		allowable		±30°
F' '				Screw / DIN rail
Fixing				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz		V	48
AC operating voltage	( To look )			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	75
		min	%Us	75 445
	dran aut	max	%Us	115
	drop-out		0/110	20
		min	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	max	/005	33
	pick-up			
	piok-up	min	%Us	80
		max	%Us	115
	drop-out	IIIdA	/0 <b>U</b> S	. 10
	Grop out	min	%Us	20
		max	%Us	55
AC average coil consu	mption at 20°C	max		- <del>-</del>
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
				=



	·	holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25
	. ( 0011	holding	VA	3
	of 60Hz coil powered at 60Hz	io much	١/٨	20
		in-rush holding	VA VA	30 4
Dissipation at holding ≤	220°C 50Hz	riolaling	W	0.95
Max cycles frequency	-20 0 00112		VV	0.50
Mechanical operation			cycles/h	3600
Operating times			, , , , , ,	
Average time for Us co	ntrol			
· ·	in AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
		max	ms	18
	Closing NC		<b>m</b> c	17
		min max	ms ms	17 26
	Opening NC	IIIdX	ms	20
	Opening NO	min	ms	7
		max	ms	17
	in DC			
	Closing NO			
	-	min	ms	18
		max	ms	25
	Opening NO			
		min	ms	2
		max	ms	3
	Closing NC			0
		min	ms	3
	Opening NC	max	ms	5
	Opening 110	min	ms	11
		max	ms	17
UL technical data				
	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
		200/208V 220/230V	HP	2
		460/480V	HP	3 5
		575/600V	HP	5
General USE		3.0,000 1	***	
<del>-</del>	Contactor			
		AC current	Α	20



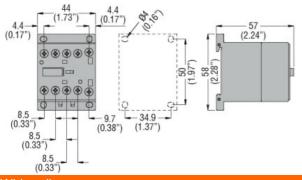
ENERGY AND AUTOMATION

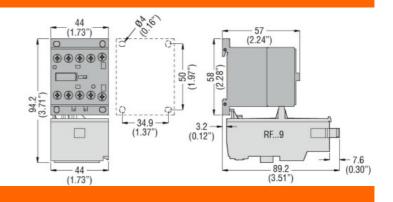
#### Ambient conditions Temperature Operating temperature °C min -50 °C +70 max Storage temperature °C min -60 °C +80 max Max altitude 3000 m

#### Resistance & Protection

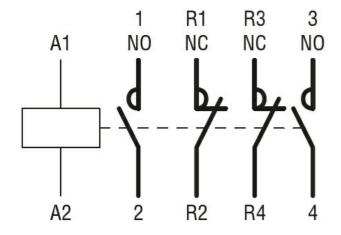
Pollution degree 3

#### 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

CCC

cULus

EAC

## ETIM classification

**ETIM 8.0** 

11BG09T2A048

EC000066 -Power contactor, AC switching





# FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 48VAC, 2NO AND 2NC