



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		
r	nin Hz	25
	ax Hz	400
IEC Conventional free air thermal current Ith	Α	20
Operational current le		
AC-1 (≤40°	•	20
AC-1 (≤55°	•	18
AC-1 (≤70°	•	15
AC-3 (≤440V ≤55°	•	9
AC-4 (400	V) A	4
Rated operational power AC-1 (T≤40°C)		
23	0V kW	8
40		14
50		16
69	0V kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		
≤2		12
	8V A	10
	5V A	4
	OV A	3
22	OV A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		
	4V A	15
	8V A	14
	5V A	9
	OV A	8
	OV A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		
	4V A	16
	8V A	16
	5V A	10
	OV A	10
22	OV A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		
	4V A	16
	8V A	16
7	5V A	10
7	OV A	10 10 2



IEC max current le in E	DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
		≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	Α	_ 1
		220V	A	- -
IFO	200 DOE with 1/D < 45 with 0 1 in ni	220 V		
IEC max current le in L	DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
		≤24V	Α	8
		48V	Α	8
		75V	Α	5
		110V	Α	4
		220V	Α	_
IFC may current le in F	DC3-DC5 with L/R ≤ 15ms with 3 poles in series		- , ,	
ILO IIIAX CUITEIILIE III L	DC3-DC3 with L/IX = 13ms with 3 poles in series	2041 /	^	40
		≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
IEC max current le in Γ	DC3-DC5 with L/R ≤ 15ms with 4 poles in series			,
ILO MAX GAMONI IO III L	700 Boo with E/TC = Tome with 4 poles in somes	≤24V	۸	10
			A	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
Short-time allowable co	urrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse				
1 TOLCOLIOTI TUSC		aC (IEC)	۸	20
		gG (IEC)	A	
		aM (IEC)	Α	10
Making capacity (RMS	value)		Α	92
Breaking capacity at vo	oltage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Posistanos per pela (o	vorago valuo)	030 V		
Resistance per pole (a			mΩ	10
Power dissipation per p	pole (average value)			
		Ith	W	4
		AC-3	W	0.81
Tightening torque for te	erminals			
5 5 12 22 22		min	Nm	0.8
			Nm	
		max		1
		min	lbin	9
		max	lbin	9
Tightening torque for co	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
			lbin	9
Max must an af 1111	institute a constitute a consti	max		
	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section	111000		
	I IOAIDIC W/O ING COMMUNICION SECTION	min	mm²	0.75
		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 of		2	4 =
		min	mm² mm²	1.5 2.5
		max	IIIII-	IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				, , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	181
Conductor section				
	AWG/kcmil conductor section			40
Auviliant contest share	otoriotico	max		12
Auxiliary contact chara Thermal current Ith	ctensucs		Α	10
IEC/EN 60947-5-1 des	signation		A	A600
Operations	ngriation			71000
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 AC coil operating				yes
Rated AC voltage at 5	0/60Hz		V	110
AC operating voltage	3/00/12		•	110
rio operaning remage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	·	min	%Us	75
		max	%Us	115
	drop-out		0/11	
		min	%Us	20
				r r
	of 50/60Hz soil powered at 60Hz	max	%Us	55
	of 50/60Hz coil powered at 60Hz			55
	of 50/60Hz coil powered at 60Hz pick-up	max	%Us	
	·			80 115
	·	max	%Us %Us	80
	pick-up	max	%Us %Us %Us %Us	80 115 20
	pick-up drop-out	max min max	%Us %Us %Us	80 115
AC average coil consu	pick-up drop-out	max min max min	%Us %Us %Us %Us	80 115 20
AC average coil consu	pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 115 20 55
AC average coil consu	pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 115 20 55
AC average coil consu	drop-out Imption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max	%Us %Us %Us %Us %Us	80 115 20 55
AC average coil consu	pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 115 20 55

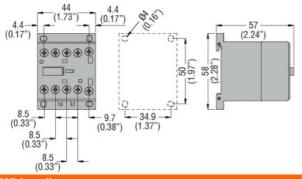


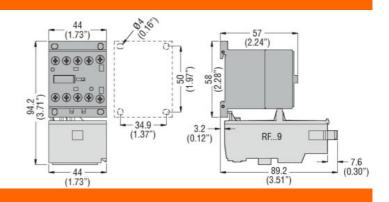
		holding	VA	3
	of 60Hz coil powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
Max cycles frequency			1 //	0000
Mechanical operation			cycles/h	3600
Operating times	orter I			
Average time for Us co				
	in AC			
	Closing NO	min	ms	12
			ms	21
	Opening NO	max	1115	21
	Opening NO	min	ms	9
		max	ms	18
	Closing NC	Παλ	1113	10
	Closing NO	min	ms	17
		max	ms	26
	Opening NC	max	1110	20
	Opening 110	min	ms	7
		max	ms	17
	in DC	THOX		··
	Closing NO			
	G.66g . 10	min	ms	18
		max	ms	25
	Opening NO			
	3 -	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	erformance			
	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	Α	20
Short-circuit protection				
	High fault			
		Short circuit current	kA	100



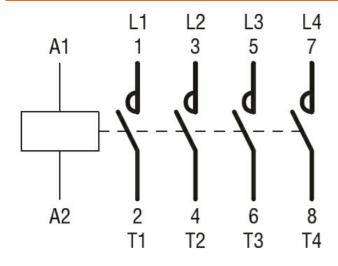
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	tion			
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



11BG09T4A110

FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 110VAC

CCC			
cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching