



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
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)	Α	4
Rated operational power AC-1 (T≤40°C)	()		<u> </u>
(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	Α	12
	48V	Α	10
	75V	Α	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	Α	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	Α	10
	110V	Α	10
	220V	Α	2
	·	•	



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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	<u>-</u>
IFC max current le in [DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V	- / (
120 max carrent to in E	300 Boo with E/TC = Tollio with 2 poles in series	≤24V	Α	8
		48V	A	8
		75V		
			A	5
		110V	A	4
	200 205 19 1/2 1/5 19 0 1 1	220V	Α	_
IEC max current le in I	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			
	·	≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	A	5
		220V	A	0,8
Chart time allowable a	urrent for 10g (IEC/ENG0047.1)	220 V		96
	urrent for 10s (IEC/EN60947-1)		A	90
Protection fuse		0 (150)	•	00
		gG (IEC)	Α	20
		aM (IEC)	Α	10
Making capacity (RMS			Α	92
Breaking capacity at vo	oltage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	verage value)		mΩ	10
Power dissipation per p				
	,	Ith	W	4
		AC-3	W	0.81
Tightening torque for to	erminals	7.00		0.01
g		min	Nm	0.8
			Nm	0.6 1
		max		
		min	lbin	9
The first of the state of the s	21.6	max	Ibin	9
Tightening torque for c	oii terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
-		max	lbin	9
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section			·	
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		111111		J J



		max	mm²	2.5
	Flexible c/w lug conductor section	Пах		2.0
	Ü	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor		_	
		min	mm²	1.5
		max	mm²	2.5 IP20 when
Power terminal protection	on according to IEC/EN 60529			properly wired
Mechanical features				T ST S S
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	220
Conductor section				
	AWG/kcmil conductor section			4.0
Auxiliary contact charact	toriotica	max		12
Auxiliary contact characterial current lth	tensucs		А	10
IEC/EN 60947-5-1 design	anation			Q600
Operations	gnation			Quu
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B100	d according to EN/ISO 13489-1			
		rated load	cycles	500000
Missassastata		mechanical load	cycles	20000000
Mirror contats according EMC compatibility) to IEC/EN 609474-4-1			yes
DC coil operating				yes
DC rated control voltage	9		V	60
DC operating voltage			<u> </u>	
·	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out		0/11	4.0
		min	%Us	10
Average coil consumption		max	%Us	25
Average con consumpti	011 <u>32</u> 0	in-rush	W	3.2
		holding	W	3.2
Max cycles frequency		J		
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us cor				
	in AC			
	Closing NO		ma	12
		min max	ms ms	21
	Opening NO	IIIdX	1113	<u>~ 1</u>
		min	ms	9
		max	ms	18



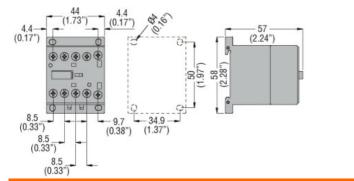
	Closing NC			
	Closing NC	min	ms	17
		max	ms	26
	Opening NC	max	1110	20
	opening	min	ms	7
		max	ms	17
iı	n DC			
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NO			
		min	ms	2
		max	ms	3
	Closing NC			
		min	ms	3
		max	ms	5
	Opening NC	,		44
		min	ms	11
I II and the Late		max	ms	17
UL technical data	w there are an AC mater			
Full-load current (FLA) fo	or three-phase AC motor	-t 400\/	Δ.	7.0
		at 480V	A	7.6
Violate di une alle ancienti une ufe		at 600V	Α	6.1
Yielded mechanical perfo				
T(or single-phase AC motor	440/400\/	LID	0.5
		110/120V	HP	0.5
-	or three-phase AC motor	230V	HP	1.5
11	of three-phase AC motor	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE		0.0,0001		
	Contactor			
		AC current	Α	20
Short-circuit protection fu	use, 600V			
•	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
5	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
			°C	+80
A A Late 1		max		
Max altitude Resistance & Protection		max	m	3000

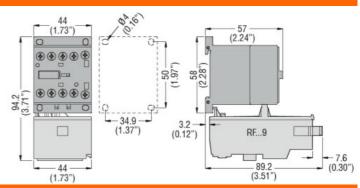


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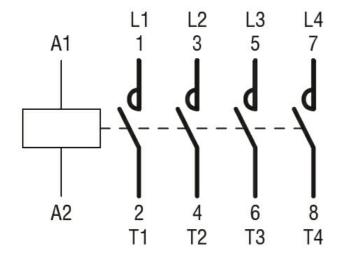
Pollution degree 3

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

EC000066 -Power contactor, AC switching