



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			
-1	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
operational current to	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-3 (3440V 333 C) AC-4 (400V)	A	4
Rated operational power AC-1 (T≤40°C)	AC-4 (400V)		- 1
Nateu operational power AC-1 (1540 C)	2201/	LAA	0
	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	A	16
	75V	A	10
		A	10
	110V 220V	A	2



ENERGY AND AUTOMATION

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	7
	48V	A	6
	75V		2
		A	
	110V	Α	1
	220V	A	
IEC max current le in 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	<u> </u>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	- / \	
120 max current le in 200-200 with 2/10 2 forms with a poles in series	<0.417	۸	10
	≤24V	A	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	A	10
	75V	A	
			6
	110V	Α	5
	220V	A	0,8
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		- , ,	
breaking capacity at voltage	440V	۸	72
		A	
	500V	Α	72
	690V	А	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
		Nm	1
	max		
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Max number of wires simultaneously connectable		Nr.	2
Conductor section			_
AWG/Kcmil			40
	max		12
Flexible w/o lug conductor section			
	min	mm²	0.75



ENERGY AND AUTOMATION

		max	mm²	2.5
	Flexible c/w lug conductor section	THEX.		
	Ç	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor s	ection		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				propony whod
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	219
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	cteristics		•	10
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des Operations	signation			Q600
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
	Od according to EN/ISO 13489-1			
	9	rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				
DC rated control voltage	ge		V	12
DC operating voltage	miale um			
	pick-up	min	%Us	75
		max	%Us	115
	drop-out	Hida	,,,,,	. 10
	• • • • • • • • • • • • • • • • • • • •	min	%Us	10
		max	%Us	25
Average coil consump	tion ≤20°C			
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency			. "	0000
Mechanical operation			cycles/h	3600
Operating times Average time for Us co	entrol			
Average unte for US CC	in AC			
	Closing NO			
	2.33g	min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
		max	ms	18



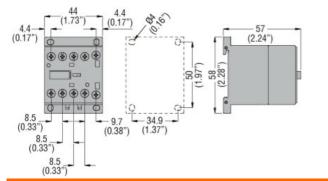
	Closing NC			
	Closing NC	min	ms	17
		max	ms	26
	Opening NC	max	1110	20
	opening	min	ms	7
		max	ms	17
iı	n DC			
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NO			
		min	ms	2
		max	ms	3
	Closing NC			
		min	ms	3
		max	ms	5
	Opening NC	,		44
		min	ms	11
I II and the Late		max	ms	17
UL technical data	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		0.0,000		
	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

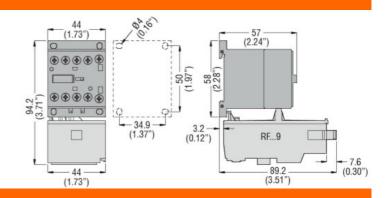


ENERGY AND AUTOMATION

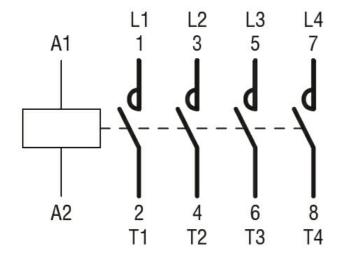
Pollution degree 3

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