



Product designation Product type designation			Power contactor 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
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)			
	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			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9

Max number of wires simultaneously connectable

Conductor section

Nr.

2





A1A/C	/1/:1
AVVG	/Kcmil

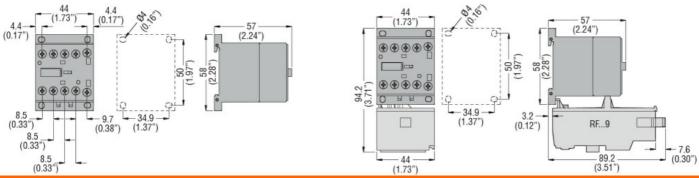
	max		12
	Flexible w/o lug conductor section		
	min	mm²	0.75
	max	mm²	2.5
	Flexible c/w lug conductor section	-	4.5
	min	mm²	1.5
	The side to with inscripted and do but and ductor position.	mm²	2.5
	Flexible with insulated spade lug conductor section min	mm²	1.5
	max	mm²	2.5
Power terminal protect	ion according to IEC/EN 60529	111111	IP20 when
Mechanical features			properly wired
Operating position			
Operating position	normal		Vertical plan
	allowable		±30°
Fixing	anowable		Screw / DIN rail 35mm
Weight		g	221
Auxiliary contact charact	cteristics	9	
Thermal current Ith		А	10
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data			
Performance level B10	0d according to EN/ISO 13489-1		
	rated load	cycles	500000
	mechanical load	cycles	20000000
EMC compatibility			yes
DC coil operating		\/	12
DC rated control voltage	ge	V	12
DC operating voltage	nick-un		
	pick-up min	%Us	75
	max	%Us	115
	drop-out	/003	. 10
	min	%Us	10
	max	%Us	25
Average coil consumpt			
- '	in-rush	W	3.2
	holding	W	3.2
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co			
	in AC		
	Closing NO		40
	min	ms	12
	Opening NO	ms	21
	Opening NO min	ms	9
	max	ms	18
	Closing NC	1110	. 5
	stics described in this document are subject to updates or modifications at any time. The description		



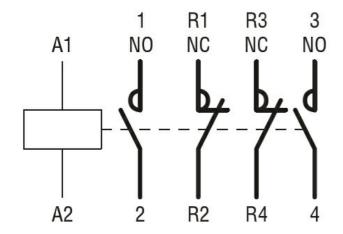
			i		47
			min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			-
		Cicomig ito	min	ms	3
					5
		Opening NC	max	ms	5
		Opening NC		<b>100</b> 0	11
			min	ms	11
			max	ms	17
UL technical data					
Rated operational volta				V	600
Full-load current (FLA)	for three-phase AC moto	or			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe	rformance				
•	for single-phase AC mo	otor			
	ioi oiligio pilaco i to ilit		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC mo	tor	200 V	- ' ' '	1.0
	ioi iiiiee-piiase AC iiio	lOI	200/2001/	ЦD	0
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE					
	Contactor				
			AC current	Α	20
Ambient conditions					
Temperature					
•	Operating temperature				
	, <u>G</u>		min	°C	-50
			max	°C	+70
	Storage temperature		HUA		
	otorage temperature		min	°C	-60
				°C	
Manatitud			max		+80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					



ENERGY AND AUTOMATION



## 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