



			7. 10
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			
oporational modulotoy	min	Hz	25
	max	Hz	400
Operational current le	IIIdA	1 12	400
Operational current le	AC-1 (≤40°C)	۸	20
	•	A	
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	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	7.0 0	• • •	0.01
rightering torque for terminals	min	Nm	0.8
	max	Nm	1
	min	lbin	9
		Ibin	
Tightoning targue for call tarminal	max	IDIN	9
Tightening torque for coil terminal	:	Nina	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
-	max	Ibin	9
Max number of wires simultaneously connectable Conductor section		Nr.	2



А١	Λ	G	/K	cr	n	il
\neg	/ V	u		u		

	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 protect	ion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	220
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	0d according to EN/ISO 13489-1		
	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	je	V	48
DC operating voltage			
	pick-up		
	min	%Us	75
	max	%Us	115
	drop-out		
	min	%Us	10
	max	%Us	25
Average coil consumpt	tion ≤20°C		
• '	in-rush	W	3.2
	holding	W	3.2
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co	ontrol		
J	in AC		
	Closing NO		
	C		

12

ms

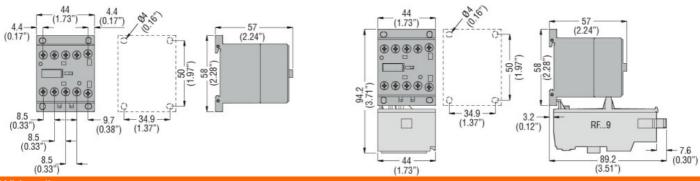
min



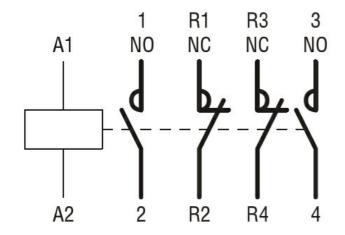
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
		0 1 110	max	ms	26
		Opening NC			_
			min	ms	7
	in DC		max	ms	17
	in DC	Closing NO			
		Closing NO	min	me	18
				ms ms	25
		Opening NO	max	1113	23
		Opening 140	min	ms	2
			max	ms	3
		Closing NC	Παλ	1110	•
		2.009 110	min	ms	3
			max	ms	5
		Opening NC			
		-1- 5 -	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mot	or			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical per	rformance				
	for single-phase AC m	otor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC mo	otor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE	•				
	Contactor			_	
A 1.1 4 194			AC current	Α	20
Ambient conditions					
Temperature	0				
	Operating temperature	•		°C	5 0
			min	°C	-50 - 70
	Ctorogo tomporativas		max	°C	+70
	Storage temperature		min	°C	-60
			max	°C	-60 +80
Max altitude			IIIdx		3000
IVIAN AILILUUC				m	3000
Resistance & Protection	nn				
Resistance & Protectio	n				3
Resistance & Protectio Pollution degree Dimensions	on 				3



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