

Conductor section



			2 82 84
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
Operational current le			
opolanona. our our our	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)	A	4
Rated operational power AC-1 (T≤40°C)			
Traise specialismal perior / (1 = 10 °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			
1 101001101111000	gG (IEC)	Α	20
	aM (IEC)	A	10
Making capacity (RMS value)	a (.20)	A	92
Breaking capacity at voltage		- , ,	- UL
broaking dapatoky at voltage	440V	Α	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	2001	mΩ	10
Power dissipation per pole (average value)		11132	10
1 ones alcolpation per pero (average value)	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals	AC-3	VV	0.01
rightening torque for terminals	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Tightening torque for coil terminal	IIIdX	וווטו	J
rightening torque for contenninal	min	Nm	0.8
	min		
	max	Nm Ibin	1
	min may	lbin	9 a
May number of wires simultaneously segmentable	max		9 2
Max number of wires simultaneously connectable		Nr.	۷



ΑW	/G/K	cmi
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	AWG/Kcmii			
		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	n		
		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	222
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	d according to EN/ISO 13489-1			
		rated load	cycles	500000
	l	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	125
DC operating voltage				
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	10
		max	%Us	25
Average coil consump	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			
	in AC			
	Closing NO			
	5.55g 110	min	mo	10

12

ms

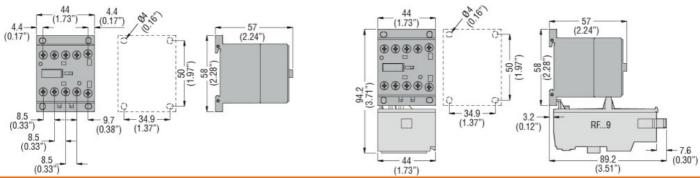
min



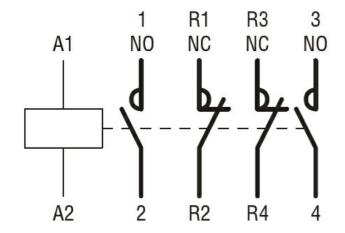
Opening NO						
Max altitude				max	ms	21
Closing NC			Opening NO			0
Closing NC						
Min			Clasing NC	max	ms	18
Max			Closing NC	min	me	17
Opening NC						
Max			Opening NC	IIIdX	1113	20
Max			opering 110	min	ms	7
In DC						
Closing NO		in DC				
Min			Closing NO			
Opening NO			Ü	min	ms	18
Closing NC				max	ms	25
Closing NC			Opening NO			
Closing NC				min	ms	2
Opening NC				max	ms	3
Name			Closing NC			
Opening NC				min	ms	
Min max				max	ms	5
Max			Opening NC			
Ul-load current (FLA) for three-phase AC motor						
Full-load current (FLA) for three-phase AC motor at 480V A 7.6 at 600V A 6.1 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 for three-phase AC motor 2200/208V HP 2 220/230V HP 3 460/480V HP 5 575/600V HP 5 General USE Contactor AC current A 20 Ambient conditions Temperature Operating temperature Operating temperature Storage temperature Max attitude Max attitude Max attitude Pollution degree For single-phase AC motor 110/120V HP 0.5 230V HP 1.5 A 20 Ambient 200/208V HP 5 AC current A 20 AC current A 2				max	ms	17
At 480V A 7.6 at 600V A 6.1						
A	Full-load current (FLA)	for three-phase AC mot	or	-1.400\/	•	7.0
Yielded mechanical performance 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 AC current A 20 Ambient conditions Temperature Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree						
For single-phase AC motor 110/120V	Violded machanical no	rformonoo		at 600V	A	0.1
110/120V HP 0.5 230V HP 1.5 1.5	rielded mechanical pe		otor			
Part		for single-phase AC mi	OlOI	110/120\/	UD	0.5
For three-phase AC motor 200/208V						
200/208V		for three-phase AC mo	tor	250 V	- ' ''	1.0
220/230V		ioi tillee-pilase AC illo	ntoi	200/208\/	HP	2
Max altitude Max						
575/600V HP 5 General USE Contactor AC current A 20 Ambient conditions Temperature Min °C -50 min °C -50 max °C -60 max °C -60 max °C -80 Max altitude m 3000 Resistance & Protection Pollution degree 3						
General USE AC current A 20 Ambient conditions Temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3						
Contactor AC current A 20 Ambient conditions Temperature Min or C or -50 max or C or +70 Storage temperature min or C or -60 max or C or +80 Max altitude m 3000 Resistance & Protection Pollution degree 3	General USE				·	
AC current A 20 Ambient conditions Temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Temperature Pollution degree 3	-	Contactor				
Ambient conditions Temperature				AC current	Α	20
Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3	Ambient conditions					
min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3	Temperature					
min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3		Operating temperature				
Storage temperature min max °C -60 max -60 max **C +80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3				min		-50
min max °C -60 max -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3				max	°C	+70
Max altitudemax°C+80Mesistance & Protectionm3000Pollution degree3		Storage temperature				
Max altitude m 3000 Resistance & Protection Pollution degree 3				min		
Resistance & Protection Pollution degree 3				max		
Pollution degree 3					m	3000
		n				
Dimensions						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