



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			
opolanonal moquelley	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)	, ,		
1 1 2 (2 2)	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		Nr.	2





AWG/Kcmil

	AVVG/RCITIII			
		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 conduct	or section		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protec	tion according to IEC/EN 60529			IP20 when
	alon according to 120/214 00020			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	181
Conductor section			ອ	
Conductor Gootlon	AWG/kcmil conductor section			
	AVVO/Remiii conductor section	max		12
Auxiliary contact chara	acteristics	IIIdA		· <u>-</u>
Thermal current Ith			А	10
Operations				10
Mechanical life			cycles	20000000
Electrical life			cycles cycles	500000
Safety related data			Cycles	300000
· · · · · · · · · · · · · · · · · · ·	0d according to EN/ISO 12490 1			
renomiance level bi	0d according to EN/ISO 13489-1	rated load	ovoloo	500000
		mechanical load	cycles	
Mirror contata accordi	ng to IEC/EN 600474 4 4	mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	UHZ		V	24
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
-		max	%Us	55
AC average coil consu	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz			
	,	in-rush	VA	30
		holding	VA	4
			•	·







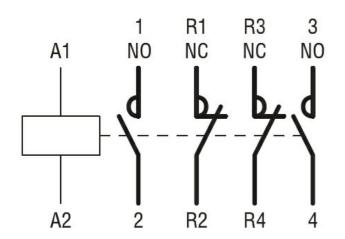
ENERGY AND AUTOMATION

Dissipation at holdin				W	0.95
lax cycles frequenc lechanical operation	•			cycles/h	3600
perating times	11			Cycles/II	3000
verage time for Us	control				
-	in AC				
		Closing NO			
			min	ms	12
		0 : 110	max	ms	21
		Opening NO	min	 .	0
			min max	ms ms	9 18
		Closing NC	Παλ	1113	10
		Closing IVC	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
		Ossailas NO	max	ms	25
		Opening NO	min	ma	2
			min max	ms ms	2
		Closing NC	max	1113	5
		3.65mg 113	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
JL technical data					
Full-load current (FL	.A) for three-phase	AC motor			
			at 480V	A	7.6
/ialdad maahaniaal	n orforman oo		at 600V	Α	6.1
ielded mechanical	for single-phas	e ΔC motor			
	ioi sirigie-pilas		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	e AC motor			<u> </u>
	- 1 %		200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
Seneral USE	_				
	Contactor			_	
1.1			AC current	Α	20
mbient conditions					
emperature	Operation to	ooratura			
	Operating temp	Derature	ma:	°C	50
			min max	°C	-50 +70
	Storage tempe	rature	IIIdX	U	riu
	Ciorago tempe	пасато	min	°C	-60
			111111		



ENERGY AND AUTOMATION

	max °C	+80
Max altitude	m	3000
Resistance & Protection		
Pollution degree		3
Dimensions		
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	RF9 7.6 (0.30")



Certifications and	l 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