



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/KCIIII			40
		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
Dower terminal protect	tion according to IEC/EN 60529			IP20 when
	tion according to IEG/EN 00329			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	186
Conductor section			9	100
CONTROLOR SECTION	AWG/kcmil conductor section			
	AVVG/KCITIII CONDUCTOR Section	mov		12
Auxiliary contact chara	eteristics	max		1 4
· · · · · · · · · · · · · · · · · · ·	CLETISTICS		^	10
Thermal current Ith			Α	10
Operations				0000000
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
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60	0Hz		V	220
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	ımption at 20°C			_
Č	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	rioiding	٧,١	
	5. 501 12 5011 powered at 501 12	in-rush	VA	30
		holding	VA VA	4
		noiding	٧A	7







**ENERGY AND AUTOMATION** W Dissipation at holding ≤20°C 50Hz 0.95 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12 21 max ms Opening NO 9 min ms 18 max ms Closing NC min ms 17 max ms 26 Opening NC 7 min ms 17 max ms in DC Closing NO min ms 18 max ms 25 Opening NO 2 min ms 3 max ms Closing NC 3 min ms 5 max ms Opening NC min ms 11 17 max ms UL technical data Full-load current (FLA) for three-phase AC motor Α 7.6 at 480V at 600V Α 6.1 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 5 575/600V HP General USE Contactor AC current 20 Ambient conditions Temperature Operating temperature °C -50 min °C +70 max Storage temperature

min

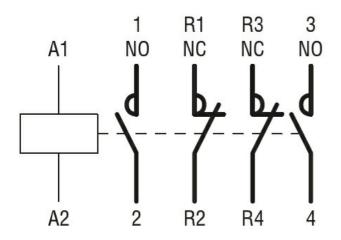
°C

-60



**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") (0.38") (1.37") Wiring diagrams	2. L. E. C.		RF9 7.6 (0.30")
wiring diagrams			



EAC

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			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching