

Conductor section



			2 84
Product designation			Power contactor
Product type designation			BG09
Contact characteristics			2000
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
-1	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			
3 1 , 3	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			
9 4 9 4 4 4 4 4	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Tightening torque for coil terminal			
O 0 12 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Max number of wires simultaneously connectable	ax	Nr.	2
O I de d'			<del>_</del>







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 poworou at 501 12	in-rush	VA	30
		holding	VA VA	4
		noiding	٧A	7







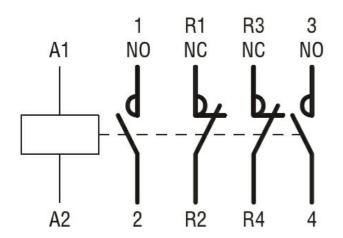
**ENERGY AND AUTOMATION** 

Dissipation at holding ≤	20°C 50Hz	W	0.95
Max cycles frequency		//	0000
Mechanical operation		cycles/h	3600
Operating times  Average time for Us co	ntrol		
Average time for US con	in AC		
	Closing NO		
	min	ms	12
	max		21
	Opening NO		
	min	ms	9
	max	ms	18
	Closing NC		
	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		0
	min	ms	2
	Closing NC	ms	3
	Closing NC	mo	2
	min max	ms ms	3 5
	Opening NC	1115	3
	min	ms	11
	max	ms	17
UL technical data			
	for three-phase AC motor		
,	at 480V	Α	7.6
	at 600V	Α	6.1
Yielded mechanical per			-
r -	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			
	Contactor	_	
A 11 / 11	AC current	Α	20
Ambient conditions			
Temperature	Out of the territory		
	Operating temperature	0.0	50
	min	°C	-50 - 70
	Storage temperature	°C	+70
	Storage temperature 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") (0.33") (0.33") (0.33")	2. E. S.	(2.28%)	RF9 7.6 (0.30")
vviring 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