



Product designation Product type designation			Power contactor 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			
, ,	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	160
	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			
	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
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max ·	Nm	1
	min	lbin	0.59
Tightening tenent for cell tenents of	max	lbin	0.74
Tightening torque for coil terminal	<u></u>	Nice	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbft lbft	0.8
May number of wires simultaneously separately	max	Ibft	0.74
Max number of wires simultaneously connectable		nr.	2

Conductor section

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	on		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
- Fixing				35mm
Weight			g	180
Auxiliary contact chara	cteristics			
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 des	signation			A600
Operating current DC1	2			
		110V	Α	2.9
Operating current DC1	3			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.1
		125V	Α	0.3
		220V	Α	0.1
		600V	Α	0.6
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			true
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
-		min	V	12
		max	V	575
AC operating voltage				
. 5 5	of 50/60Hz coil powered at 50Hz			
	pick-up			
	• •	min	%Us	75
		max	%Us	115
	drop-out			
	·	min	%Us	20
		max	%Us	55
		1110/1		
	of 50/60Hz coil powered at 60Hz	max		
	of 50/60Hz coil powered at 60Hz pick-up			
	•	min	%Us	80



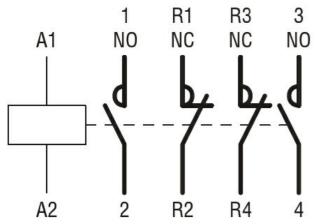
		max	%Us	115
	drop-out	_		
		min	%Us	20
10 11 11	2000	max	%Us	55
AC operating voltage at 2				
C	of 50/60Hz coil powered at 50Hz	:	١/٨	20
		in-rush	VA	30
_	of 50/60Hz coil powered at 60Hz	holding	VA	4
C	or 50/60Hz coil powered at 60Hz	in-rush	VA	25
		holding	VA VA	3
_	of 60Hz coil powered at 60Hz	riolality	VA	<u> </u>
	of 12 con powered at our 12	in-rush	VA	30
		holding	VA	4
Dissipation at holding ≤20		riolaling	W	0.95
DC coil operating			V V	
DC rated control voltage				
_ s .a.cs control voltage		min	V	6
		max	V	480
Average coil consumptio		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	-	in-rush	W	3.2
		holding	W	3.2
Max cycles frequency		<u> </u>		
Mechanical operations			cycles/h	3600
Operating times			·	
Average time for Us cont	rol			
iı	n AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
		max	ms	18
	Closing NC			
		min	ms	17
	0.00	max	ms	26
	Opening NC	* ·		7
		min	ms	7
	n DC	max	ms	17
II.	n DC Closing NO			
	Ciosing NO	min	ms	18
		max	ms	25
	Opening NO	IIIdX	1113	_0
	Opolining 140	min	ms	2
		max	ms	3
	Closing NC			
	<del>-</del>	min	ms	3
		max	ms	5
	Opening NC			
	. •	min	ms	11
		max	ms	17
UL technical data				

Full-load current (FLA) for three-phase AC motor



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ENERGY AND AUTOMATION

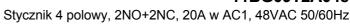
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanica	-			
	for single-phase AC motor			
		110/120V	hp	0.5
	-	230V	hp	1.5
	for three-phase AC motor			
		200/208V	hp	2
		220/230V	hp	3
		460/480V	hp	5
0 11105		575/600V	hp	5
General USE				
	Contactor			
A male in out an oralition of		AC current	Α	20
Ambient conditions				
Temperature	0			
	Operating temperature	and the	° C	40
		min	°C	-40 60
	Ctorono tomoronotivo	max		60
	Storage temperature	min	°C	-55
		min max	°C	-55 70
Max altitude		IIIax	m	3000
Resistance & Prote	action		1111	3000
Pollution degree	Schon			3
Dimensions				3
4.4 (0.17") (0	05 (2.24") 06 (1.26.1) 08 (2.24") 08 (2.24")	44 (1.73") (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	RF9 7.6 (0.30" (3.51")



## 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 6 classification

EC000066 - Power contactor, AC switching