



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



				0.75
		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
	ion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	179
Auxiliary contact chara	cteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600
Operating current DC1	~			.1000
Operating current DC1	2	110V	Α	2.9
Operating current DC1	2	1100	^	2.9
Operating current DC1	3	24V	٨	2.0
			A	2.9
		48V	A	1.4
		60V	A	1.1
		125V	A	0.3
		220V	A	0.1
0		600V	Α	0.6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	cycles	500000
	mech	anical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			true
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
-		min	V	12
		max	V	575
AC operating voltage				
. 5 5	of 50/60Hz coil powered at 50Hz			
	pick-up			
	r	min	%Us	75
		max	%Us	115
	drop-out	max	,000	•
	alop out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	παλ	/003	
	pick-up			
	ριοκ-αρ	min	%Us	80
		111111	/005	30



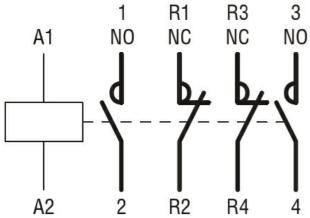
		max	%Us	115
	drop-out			
		min	%Us	20
<u> </u>	0000	max	%Us	55
AC operating voltage at				
(of 50/60Hz coil powered at 50Hz	مامد سامنا	1/4	20
		in-rush	VA	30
- -	of 50/60Hz coil powered at 60Hz	holding	VA	4
	or 50/60Hz coil powered at 60Hz	in-rush	VA	25
		holding	VA	3
-	of 60Hz coil powered at 60Hz	Holding	VA	3
· ·	or our iz con powered at our iz	in-rush	VA	30
		holding	VA	4
Dissipation at holding ≤2	0°C 50Hz	Holding	W	0.95
DC coil operating	0 0 00112		V V	0.00
DC rated control voltage				
_ 2 .a.ca com or voltage		min	V	6
		max	V	480
Average coil consumption	on ≤20°C	max	*	
G		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 con	trol			
=	n AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
		max	ms	18
	Closing NC			
		min	ms	17
	2	max	ms	26
	Opening NC			7
		min	ms	7
-	n DC	max	ms	17
	n DC			
	Closing NO	min	me	18
		max	ms ms	25
	Opening NO	IIIdX	1113	20
	Opening 140	min	ms	2
		max	ms	3
	Closing NC	max	5	<u> </u>
	2.0090	min	ms	3
		max	ms	5
	Opening NC		-	
	1 - 3	min	ms	11
		max	ms	17
UL technical data				

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



ENERGY AND AUTOMATION

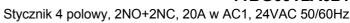
	at 480V	Α	7.6
	at 600V	Α	6.1
Yielded mechanical performance			
for single-phase AC motor			
	110/120V	hp	0.5
	230V	hp	1.5
for three-phase AC motor			
	200/208V	hp	2
	220/230V	hp	3
	460/480V	hp	5
	575/600V	hp	5
General USE			
Contactor			
	AC current	Α	20
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	60
Storage temperature			
	min	°C	-55
	max	°C	70
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
4.4 (0.17") (0.17") (0.33") (0.33") Wiring diagrams	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	89.2 (3.51")
1 R1 R3 3			



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