



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			05
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	20
Operational current le		•	0.0
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-1 (T≤40°C)	0001/		
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	.0.0.1		
	≤24V	A	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	-0.01		
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	.0.0.1		
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			10
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2



IEC max current le in l	DC3-DC5 with L/R \leq 15ms with 1 poles in series			
		≤24V	А	7
		48V	А	6
		75V	А	2
		110V	A	1
		220V	A	_
IEC max current le in l	DC3-DC5 with L/R \leq 15ms with 2 poles in series	2201	Л	
	DC3-DC3 with $E/R = 10$ ms with 2 poles in series	<2417	۸	0
		≤24V	A	8
		48V	A	8
		75V	А	5
		110V	А	4
		220V	A	_
IEC max current le in l	DC3-DC5 with L/R \leq 15ms with 3 poles in series			
		≤24V	А	10
		48V	А	10
		75V	А	6
		110V	A	5
		220V	A	0,8
IFC max current le in l	DC3-DC5 with L/R \leq 15ms with 4 poles in series	2201		0,0
		≤24V	٨	10
			A	
		48V	A	10
		75V	А	6
		110V	А	5
		220V	А	0,8
Short-time allowable c	current for 10s (IEC/EN60947-1)		А	96
Protection fuse				
		gG (IEC)	А	20
		aM (IEC)	А	10
Making capacity (RMS	value)		А	92
Breaking capacity at vo				-
Drouking capacity at th		440V	А	72
		500V	A	72
Desistante en la de		690V	<u>A</u>	72
Resistance per pole (a			mΩ	10
Power dissipation per	pole (average value)			
		lth	W	4
		AC-3	W	0.81
Tightening torque for to	erminals			
-		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Tightening torque for c	coil terminal	max	1011	~
			Nim	0.9
		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		11111	11111	0.75



		max	mm²	2.5
	Flexible c/w lug conductor section	Пал		2.0
	5	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor	or section		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when
Mechanical features	U U U U U U U U U U U U U U U U U U U			properly wired
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	183
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			10
Thermal current Ith	· .		А	10
IEC/EN 60947-5-1 de	signation			A600
Operations Mechanical life			ovelee.	2000000
Electrical life			cycles cycles	500000
Safety related data			Cycles	500000
	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	75
	drop out	max	%Us	115
	drop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	max	,	
	pick-up			
		min	%Us	80
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz	· · · · ·	1.7.6	20
		in-rush	VA	30
	of 50/60Hz coil powered at 60Hz	holding	VA	4
		in-rush	VA	25
		11-10511	v <i>r</i> 1	20

11BG09T4A230The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and
functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 230VAC

11BG09T4A230

		holding	VA	3
	of 60Hz coil powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c	ontrol			
	in AC			
	Closing NO			
		min	ms	12
		max	ms	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			
		min	ms	2
		max	ms	3
	Closing NC			0
		min	ms	3
		max	ms	5
	Opening NC			4.4
		min	ms	11
III technical data		max	ms	17
UL technical data) for three phase AC motor			
) for three-phase AC motor	at 480V	А	7.6
		at 600V	A	7.6 6.1
Yielded mechanical p	erformance	ai 000 V	~	0.1
neided mechanical p	for single-phase AC motor			
	IN SINGLE-PHASE AC INULUI	110/120V	HP	0.5
		230V	HP	0.5 1.5
	for three-phase AC motor	230 V	111	1.0
	In the phase AC motor	200/208V	HP	2
		200/208V 220/230V	HP	3
		460/480V	HP	5
		400/480V 575/600V	HP	5
General USE		010/0001		~
	Contactor			
	Contactor	AC current	А	20
Short-circuit protection	n fuse 600V		Π	20
	High fault			
	riigiriauit	Short circuit current	kA	100

11BG09T4A230The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and
functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



11BG09T4A230 FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 230VAC

		Fuse rating	А	30
		Fuse class		J
	Standard fault			_
		Short circuit current	kA	5
		Fuse rating Fuse class	A	30 RK5
Ambient conditions		Fuse class		RKO
Temperature				
rompolataro	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Vax altitude			m	3000
Resistance & Protecti	ion			
Pollution degree				3
Dimensions				
4.4 (0.17") (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")	57 (2.24") (2.	44 (1.73")	(2.28") 5	57 2.24") RF9
A1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Certifications and com 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

11BG09T4A230 FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 230VAC

	CCC		
	cULus		
	EAC		
ssification			
			=000000

ETIM 8.0

ETIM cla

EC000066 -Power contactor, AC switching