



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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	20
Operational current le			
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	0
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-1 (T≤40°C)			_
	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			
	≤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			
	≤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			
	≤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			
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2

## IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series



	≤24V	А	7
	48V	A	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
•	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	А	_
IEC max current le in 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
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	2207		-,-
	≤24V	А	10
	48V	A	10
	40V 75V	A	6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	96
Protection fuse		Α	30
	gG (IEC)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage		7.	02
Droaking suparity at voltage	440V	А	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	0001	mΩ	10
Power dissipation per pole (average value)		11132	10
r ower dissipation per pole (average value)	lth	W	4
	AC3	W	- 0.81
Tightening torque for terminals	700	vv	0.01
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
		Ibin	0.74
	max		0.77
Tightening torque for coil terminal			
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	min	Nm Nm	0.8 1
Tightening torque for coil terminal	max	Nm	1
Tightening torque for coil terminal	max min	Nm Ibin	1 0.8
	max	Nm Ibin Ibin	1 0.8 0.74
Max number of wires simultaneously connectable	max min	Nm Ibin	1 0.8
Tightening torque for coil terminal          Max number of wires simultaneously connectable         Conductor section	max min	Nm Ibin Ibin	1 0.8 0.74
Max number of wires simultaneously connectable	max min max	Nm Ibin Ibin	1 0.8 0.74 2
Max number of wires simultaneously connectable Conductor section AWG/Kcmil	max min	Nm Ibin Ibin	1 0.8 0.74
Max number of wires simultaneously connectable Conductor section	max min max max	Nm Ibin Ibin Nr.	1 0.8 0.74 2 12
Max number of wires simultaneously connectable Conductor section AWG/Kcmil	max min max	Nm Ibin Ibin	1 0.8 0.74 2



	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
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
	al	lowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	178
Conductor section			5	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara		max		· <del>-</del>
Thermal current Ith			А	10
IEC/EN 60947-5-1 des	signation		~	A600
	signation			A600
Operations				0000000
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		ed load	cycles	500000
	mechani	cal load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out		-	
	1	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	L "L	min	%Us	80
		max	%Us	115
	drop-out	max	/003	
		min	%Us	20
		max	%Us	55
AC average coil consu	imption at 20°C	Παλ	/005	55
AC average coll const	•			
	of 50/60Hz coil powered at 50Hz		174	20
		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			
		in-rush	VA	30
		holding		4
Dissipation at holding	≤20°C 50Hz		W	0.95
Max cycles frequency				0.00
Mechanical operation			cycles/h	3600
Operating times			-,	
Average time for Us co	ontrol			
0	in AC			
	Closing	NO		
	, and the second s	min	ms	12
		max	ms	21
	Opening	g NO		
		min	ms	9
		max	ms	18
	Closing			
		min	ms	17
		max		26
	Opening			
		min	ms	7
		max		17
	in DC			
	Closing	NO		
	5	min	ms	18
		max		25
	Opening			
		min	ms	2
		max	ms	3
	Closing	NC		
	-	min	ms	3
		max	ms	5
	Opening			
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	А	7.6
		at 600V		6.1
Yielded mechanical pe	rformance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V		1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V		5
General USE				
	Contactor			
		AC current	А	20
Short-circuit protection	fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating		30
				-

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11BG09T4A024 Four-pole contactor, AC coil 50/60Hz, 24VAC

	Fuse class	J
Standard fault	Short circuit current Fuse rating	kA 5 A 30
Ambient conditions Temperature Operating temperature	min	°C -50
Storage temperature	max	°C +70
Max altitude Resistance & Protection	max	°C +80 m 3000
Pollution degree Dimensions		3
$\underbrace{\begin{array}{c}44\\(0.17")\\(0.$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $	RF9 (3.51") 77 (2.24") 7 (2.24") 7 (2.24") 7 (2.24") 7 (2.24") 7 (2.24") 7 (2.24") 7 (2.24") 7 (2.24") 7 (0.30") (0.30")
$A1 \qquad I \qquad I2 \qquad I3 \qquad I4$ $A1 \qquad J \qquad $		
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	ates or modifications at any time. The descriptions	

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EAC

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching