



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		· -
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
				-

11BG09T4A024 The 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



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	

11BG09T4A024 The 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



EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching