



Product designation			Power contactor
Product type designation			BG09
Contact characteristics			
Number of poles		nr.	3
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)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
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			10
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10



11BG0910L024 Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NO, 24VDC, niski pobór mocy

	220V	А	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V		2
IFO men summer le in DO2 DO5 with L/D < 45ms with 4 meles in series	2200	A	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			_
	≤24V	A	7
	48V	А	6
	75V	A	2
	110V	А	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
'	≤24V	А	8
	48V	A	8
	48V 75V	A	5
	110V	A	4
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	10
	48V	Α	10
	75V	А	6
	110V	А	5
	220V	А	0.8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			0.0
	≤24V	А	10
	48V		
		A	10
	75V	A	6
	110V	A	5
	220V	A	0.8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	А	10
Making capacity (RMS value)	(A	92
Breaking capacity at voltage			02
breaking capacity at voltage	44017	۸	70
	440V	A	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
		Nm	1
	max		
	min	Ibin	0.59
	max	Ibin	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8



Max number of wires simultaneously connectable nr. 2 Conductor section mmx mm² 2.5 Flexible c/w lug conductor section mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wire Mechanical features orman mm² 2.5 Operating position normal Vertical plan 430° Fixing Screw / DIN rai 530° 530° Fixing g 204 400°<			max	lbft	0.74
Flexible w/o lug conductor section mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 mor 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 mor 1.5 max max mm² 2.5 Power terminal protection according to IEC/EN 60529 mor 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 mor Screw / DIN rai 3.5 30° 5 Meight g 2.04 Axxiiiary contact min 1.0		simultaneously connectable		nr.	2
min mm 2.5 Flexible c/w lug conductor section mm mm 1.5 max mm 1.5 mm 2.5 Flexible with insulated spade lug conductor section min mm ² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wire mm ² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wire mm ² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wire weight 3.5 Operating position normal Vertical plan 1.30° Fixing Screw / DIN Tai 3.5 3.6 Weight g 2.04 3.5 Mullary contact characteristics 1.NO 1.0 Thermal current th A 1.0 1.9 Coperating current DC12 230V A 3. Qoperating current DC13 24V A 1.9 Operating current DC13 24V A 1.2 Coperations Coperations Coperatinos 1.2	Conductor section				
max mm² 2.5 Flexible c/w lug conductor section mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section mm² 2.5 Power terminal protection according to IEC/EN 60529 mm² 2.5 Power terminal protection according to IEC/EN 60529 mo² 2.5 Power terminal protection according to IEC/EN 60529 mo² 2.5 Power terminal protection according to IEC/EN 60529 mo² 2.5 Power terminal protection according to IEC/EN 60529 mo² 2.5 Power terminal protection according to IEC/EN 60529 mo² 2.5 Protect and transform according to IEC/EN 60529 mo² 2.5 Protect and transform g 2.04 3 35mm Weight g g 2.04 A 10 IEC/EN 60947-5-1 designation A 10 IEC/EN 60947-5-1 A600 - Q600 Operating current IbC12 230V A 3 400V A 1.4 Operating current DC13 24V		Flexible w/o lug conductor section			
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max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 iP20 when wire Machanical features iP20 when wire Operating position normal Vertical plan **30° **30° **30° Fixing Screw / DIN rai **30° Weight g 204 Auxiliary contact characteristics g 204 Type of contact 1 NO ************************************		Flexible c/w lug conductor section		2	
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Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal allowable ±30° Fixing Sorrew / DIN rai allowable ±30° Sorrew / DIN rai Sorrew					
Mechanical features Operating position normal allowable ±30° Screw / DIN rai allowable ±30° Fixing Screw / DIN rai Somm Weight g 204 Auxilary contact characteristics Type of contacteristics	Power terminal protec	tion according to IEC/EN 60529	Παλ	111111	
Operating position normal allowable Vertical plan + 30° Fixing Screw / DIN rai 35mm Weight g 204 Auxiliary contact characteristics 1 NO Thermal current th A 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A Querating current DC12 110V A Operating current DC12 110V A Querating current DC13 24V A		tion according to rec/en 00529			IP20 when when
normal allowable Vertical plan ±30° Fixing Screw /DIN rai 35mm Weight g 204 Auxiliary contact characteristics Type of contact 1 NO Thermal current th A 10 According current AC15 230V A 3 400V 0perating current DC12 A 110V A 0perating current DC13 24V 24V A 2.9 48V 48V A 600V A 110V A 2.9 48V 48V A 125V A 0.6 125V 220V A 0.3 600V 600V A 110V A 20000000 50000 Sately related data Sores Performance level B10d according to EN/ISO 13489-1 yes					
allowable ±30° Fixing Screw / DIN rai 35mm Weight g 204 Auxiliary contact characteristics 1NO Thermal current lth A 10 IEC/EN 60947-5-1 designation A 600 - Q600 Operating current AC15 230V A 3 400V A 1.9 3 0perating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Mechanical life cycles 500000 A 110V A 0.6 125V A 0.3 Safety related data ratel load cycles 500000 Performance level B10d according to EN/ISO 13489-1 ratel load cycles 500000 Miror contats	Operating position		normal		Vertical plan
Fixing Screw / DIN rai Weight g 204 Auxiliary contact characteristics 1 NO Thermal current lth A 10 EIC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 200V A 1.4 Operating current DC12 110V A Operating current DC13 24V A Querating current DC13 2000000 A Mechanical life cycles 500000 Queratin					-
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Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 0 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 0 <td< td=""><td>IEC/EN 60947-5-1 des</td><td>signation</td><td></td><td></td><td>A600 - Q600</td></td<>	IEC/EN 60947-5-1 des	signation			A600 - Q600
230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 A8V A 1.4 60V A 1.2 110V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 000000 000000 Electrical life cycles 500000 0000000 Safety related data		-			
500V Å 1.4 Operating current DC12 110V Å 2.9 Operating current DC13 24V Å 2.9 24V Å 2.9 48V Å 1.4 60V Å 2.9 48V Å 1.4 60V Å 2.9 48V Å 1.4 60V Å 1.2 110V Å 0.6 125V Å 0.55 220V Å 0.3 60V Å 0.1 0 0 0 0 Operations vglobol vglobol 0.1 0			230V	А	3
Operating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations			400V	А	1.9
110V A 2.9 Operating current DC13 24V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Cycles 2000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 20000000 Mirror control voltage V 24 24 DC operating U 24 2000000			500V	А	1.4
Operating current DC13 24V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations	Operating current DC1	12			
24V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 200000000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 DC coil operating yes yes 20000000 DC coil operating V 24 24 DC operating voltage V 24 24 pick-up min %Us 75			110V	А	2.9
48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Mechanical life cycles 2000000 Electrical life cycles 50000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 DC coil operating yes 20000000 DC coil operating yes 20000000 DC coil operating pick-up min %Us 75	Operating current DC1	13			
60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Mechanical life cycles 2000000 Electrical life cycles 500000 Safety related data cycles 500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 DC coil operating yes yes 20000000 DC coil operating v 24 24 DC operating voltage V 24 24			24V	А	2.9
110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Mechanical life cycles 2000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 DC coil operating yes 24 DC operating voltage V 24 pick-up min %Us 75			48V	А	1.4
125V A 0.55 220V A 0.3 600V A 0.1 Operations Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data			60V	А	1.2
220V 600VA0.3 0.1OperationsMechanical lifecycles20000000Electrical lifecycles500000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcycles500000mechanical loadcycles500000Mirror contats according to IEC/EN 609474-4-1yes20000000EMC compatibilityyesyesDC coil operatingDC rated control voltageV24DC operating voltageV24min %Us 75			110V	А	0.6
600VA0.1Operationscycles2000000Electrical lifecycles500000Safety related datarated loadcyclesPerformance level B10d according to EN/ISO 13489-1rated loadcyclesrated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyesDC rated control voltageV24DC operating voltagevpick-upmin%Us75			125V	А	0.55
Operations cycles 2000000 Electrical life cycles 50000 Safety related data rated load cycles 500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes DC coil operating V 24 DC operating voltage V 24 min %Us 75			220V	А	0.3
Mechanical lifecycles2000000Electrical lifecycles500000Safety related data			600V	А	0.1
Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 75	Operations				
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility UC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 75				cycles	
Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 75				cycles	500000
rated load cycles 50000 mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating DC rated control voltage V 24 DC operating voltage v 24 DC operating voltage					
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EMC compatibility yes DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 75			nechanical load	cycles	
DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 75		ng to IEC/EN 609474-4-1			-
DC rated control voltage V 24 DC operating voltage pick-up min %Us 75					yes
DC operating voltage pick-up min %Us 75					
pick-up min %Us 75		ge		V	24
min %Us 75	DC operating voltage				
		pick-up			
max %Us 115					
			max	%Us	115



	drop-out			
	drop-out	min	%Us	10
		max	%Us	25
Average coil consumpti	on ≤20°C			
0		in-rush	W	2.3
		holding	W	2.3
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us cor				
	in AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			•
		min	ms	9
		max	ms	18
	Closing NC			47
		min	ms	17
	Opening NC	max	ms	26
	Opening NC	min	ms	7
		max	ms	, 17
	in DC	IIIdA	1113	17
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NO	max	me	20
	epe	min	ms	2
		max	ms	3
	Closing NC			
	, i i i i i i i i i i i i i i i i i i i	min	ms	3
		max	ms	5
	Opening NC			
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA) f	or three-phase AC motor			
		at 480V	А	7.6
	-	at 600V	Α	6.1
Yielded mechanical per				
	for single-phase AC motor			~ -
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	000/0001/		2
		200/208V	HP	2
		220/230V 460/480V	HP HP	3
		460/480V 575/600V	HP HP	5 5
General USE		VUU0\C1C		5
General USE	Contactor			
	Contactor	AC current	А	20
Short-circuit protection			Λ	20
	High fault			
	- ngr raut			



	Standard fault liary contacts according to UL	Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	kA A kA A	100 30 J 5 30 A600 - Q600
Ambient conditions Temperature				
remperature	Operating temperature	min max	°C ℃	-50 +70
Max altitude	Storage temperature	min max	°C °C m	-60 +80 3000
Resistance & Protect	ion			
Pollution degree Dimensions				3
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")	57 (2.24") (1.37")	44 (1.73") (0.12" (0.12" (0.12"	(2.28") 5	57 24") RF9 RF9 (0.30")
	$\begin{bmatrix} 1 & 12 & 13 \\ 1 & 3 & 5 & 13 \\ 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 \\ 2 & 4 & 6 & 14 \\ 1 & 12 & 13 & 0 \\ 1 & 1 & 12 & 13 & 0 \\ \end{bmatrix}$			
Certifications and con Compliance	CSA C22.2 n° 60947-1 CSA C22.2 n° 60947-1 IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1			
	eristics described in this document are subject to upd	ates or modifications at any time. The descriptions	technical	and 5/6

11BG0910L024 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



CCC cULus EAC ETIM classification EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching