



			•
Product designation			Power contacto
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)	Α	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	-0.11		10
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10

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	0001		<u> </u>
	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	А	10
	220V	Α	2
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	А	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	+ _
IFC may autrent to in DC2 DC5 with L/D < 15ma with 2 halos in series	2200	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	<241	^	10
	≤24V	A	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	A	10
	48V	А	10
	75V	А	6
	110V	Α	5
	220V	А	0,8
Short-time allowable 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 voltage			
<u></u>	440V	А	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	030 v	mΩ	10
		11152	10
Power dissipation per pole (average value)	141	147	4
	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9



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		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
	Flowible w/a lug approductor conting	max		12
	Flexible w/o lug conductor section	min	ma ma 2	0.75
		min	mm²	0.75
	Flovible of the conductor agotion	max	mm²	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
			mm²	2.5
	Elevible with insulated apade lug conductor acation	max	111111	2.0
	Flexible with insulated spade lug conductor section	min	mm²	1.5
		min	mm²	2.5
		max	11111-	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				property wred
Operating position				
		normal		Vertical plan
		allowable		±30°
		anowable		Screw / DIN rai
Fixing				35mm
Weight			g	214
Conductor section			9	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics	max		12
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC				
opolating outlotter to		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12	0001	73	
		110V	А	2.9
			~	2.3
Operating current DC	13			
Operating current DC	13			29
Operating current DC	13	24V	А	2.9 1 <i>4</i>
Operating current DC	13	24V 48V	A A	1.4
Operating current DC	13	24V 48V 60V	A A A	1.4 1.2
Operating current DC	13	24V 48V 60V 110V	A A A A	1.4 1.2 0.6
Operating current DC	13	24V 48V 60V 110V 125V	A A A A	1.4 1.2 0.6 0.55
Operating current DC	13	24V 48V 60V 110V 125V 220V	A A A A A	1.4 1.2 0.6 0.55 0.3
	13	24V 48V 60V 110V 125V	A A A A	1.4 1.2 0.6 0.55
Operations	13	24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	13	24V 48V 60V 110V 125V 220V	A A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life	13	24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life Safety related data	13 0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



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					110
DC rated control voltage	je			V	110
DC operating voltage	pick-up				
	ріск-ир		min	%Us	75
			max	%Us	115
	drop-out		Пал	/000	
			min	%Us	10
			max	%Us	25
Average coil consumpt	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			0
			min	ms	9
		Closing NC	max	ms	18
			min	ms	17
			max	ms	26
		Opening NC	Пах	mo	20
		oponing i to	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			2
			min	ms	3
		Opening NC	max	ms	5
			min	ms	11
			max	ms	17
UL technical data					
	for three-phase AC mo	otor			
- (-)			at 480V	А	7.6
			at 600V	А	6.1
Yielded mechanical pe	rformance				
	for single-phase AC n	notor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	otor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5

11BG0901D110 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



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General USE

Ambient conditions Temperature Operating temperature $min ^{\circ}C -50$ $max ^{\circ}C +70$ Storage temperature min ^{\circ}C -60 $max ^{\circ}C +80$ Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions $44 \rightarrow (1.73)^{\circ} (0.35)^{\circ} (1.37)^{\circ}$ $44 \rightarrow (0.35)^{\circ} (1.37)^{\circ}$ $65 \rightarrow (0.35)^{\circ} (1.37)^{\circ}$					
Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Fuse class RK5 Contact rating of auxiliary contacts according to UL Anbient conditions Temperature Operating temperature Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions		Contactor	AC current	Δ	20
High faultShort circuit currentkA100Fuse classJStandard faultShort circuit currentkA5Standard faultShort circuit currentkA5Contact rating of auxiliary contacts according to ULA 600 - CAmbient conditionsTemperatureOperating temperaturemin max °C°CMin °C°C-50 max °CMin °C°C-50 max °C*70Storage temperaturemin °C°C-60 	Short-circuit protec	tion fuse, 600V			20
$\begin{tabular}{ c c c c c c } \hline Fuse rating & A & 30 \\ \hline Fuse class & J \\ \hline Standard fault \\ \hline Short circuit current & kA & 5 \\ \hline Fuse rating & A & 30 \\ \hline Fuse rating & A & 5 \\ \hline Fuse rating & A & 30 \\ \hline Fuse rating & A & 5 \\ \hline Fuse rating & A & 30 \\ \hline Fuse rating & A & 5 \\ \hline Fuse rating & A & 30 \\ \hline max & ^{\circ}C & -50 \\ \hline max & ^{\circ}C & -60 \\ \hline max & ^{\circ}C & -80 \\ \hline max & ^{\circ}C & -80 \\ \hline max & ^{\circ}C & -60 \\ \hline max & ^{\circ$					
Fuse class J Standard fault Short circuit current Fuse rating A 30 Fuse class KA 5 RK5 Contact rating of auxiliary contacts according to UL Ambient conditions A 600 - C Ambient conditions A 600 - C Temperature Operating temperature Operating temperature min °C - 50 max °C + 70 Storage temperature min °C - 60 max °C + 80 Max atitude m 3000 Resistance & Protection 3 Pollution degree 3 Dimensions 3					
Standard faultShort circuit current Fuse rating Fuse rating A 30 Fuse classKA 5 Fuse rating Fuse classContact rating of auxiliary contacts according to UL Ambient conditionsA 600 - CA A 30 Fuse classTemperatureOperating temperaturemin °C -50 max °C +70Storage temperaturemin °C -60 max °C +80Max attitude m 3000Resistance & ProtectionPollution degree3Dimensions $44 + \sqrt{1173} + \sqrt{117} + $			-	A	
Short circuit current kA 5 Fuse rating A 30 Fuse class RK5 Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature $\frac{min ^{\circ}C -50}{max ^{\circ}C +70}$ Storage temperature $\frac{min ^{\circ}C -60}{max ^{\circ}C +80}$ Max altitude Resistance & Protection Pollution degree 3 Dimensions $\frac{41}{(14)} \int (14) \int (1$		Standard fault	Fuse class		J
Fuse rating Fuse classA30 RK5Contact rating of auxiliary contacts according to ULA600 - CAmbient conditionsTemperatureTemperature $min ^{\circ}C -50$ max $ ^{\circ}C +70$ Storage temperature $min ^{\circ}C -60$ max $ ^{\circ}C +80$ Max altitudemMax altitudem2000Resistance & ProtectionPollution degree3Dimensions3		Standard Tault	Short circuit current	kA	5
Contact rating of auxiliary contacts according to UL A600 - C Ambient conditions Temperature Operating temperature Operating temperature Min °C -50 max °C +70 Storage temperature Max altitude Resistance & Protection Pollution degree 3 Dimensions 444 (1.73) (0.17) (0.17) (2.24) (0.33) (1.37) (3.7) (3.7) (3.7) (3.7)					
Ambient conditions Temperature Operating temperature $min ^{\circ}C -50$ $max ^{\circ}C +70$ Storage temperature min ^{\circ}C -60 $max ^{\circ}C +80$ Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions $44 \rightarrow (1.73)^{\circ} (0.35)^{\circ} (1.37)^{\circ}$ $44 \rightarrow (0.35)^{\circ} (1.37)^{\circ}$ $65 \rightarrow (0.35)^{\circ} (1.37)^{\circ}$			Fuse class		
TemperatureOperating temperaturemin°C-50max°C+70Storage temperaturemin°C-60max°C+80Max altitudem3000Resistance & ProtectionPollution degree3Dimensions $44^{+1} + (43^{-1} + (43$					A600 - Q
Operating temperaturemin°C-50max°C+70Storage temperaturemin°C-60max°C+80Max altitudem3000Resistance & ProtectionPollution degree3Dimensions $44^{+1}_{(173)}$ $44^{+1}_{(173)}$ $44^{+1}_{(173)}$ $44^{+1}_{(173)}$ $44^{+1}_{(173)}$ $44^{+1}_{(173)}$ $44^{+1}_{(173)}$ $44^{+1}_{(173)}$ $44^{+1}_{(033)}$ $44^{+1}_{(017)}$ $44^{+1}_{(173)$					
$\begin{array}{c} \min & \circ C & -50 \\ \max & \circ C & +70 \\ \hline \\ Storage temperature \\ \hline \\ max & \circ C & +80 \\ \hline$	Temperature	Operating temperature			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Operating temperature	min	°C	-50
Storage temperaturemin°C-60max°C+80Max altitudem3000Resistance & ProtectionPollution degree3Dimensions $44 \rightarrow 0^{(1,73)} \rightarrow 0^{(1,17)} \rightarrow 0^{(1,1$					
$\begin{array}{c} max ^{\circ}C +80 \\ m 3000 \\ \hline \\ Resistance \& Protection \\ Pollution degree \\ \hline \\ Dimensions \\ \hline \\ \begin{pmatrix} 4,4 \\ 0,37 \\ 0,3$		Storage temperature			
Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions $44 \xrightarrow{(0.17')} \oplus \oplus$			min		
Resistance & Protection3Dimensions $44 \rightarrow 0^{(1,7)} \rightarrow 0^{(1,7)} \rightarrow 0^{(1,7)} \rightarrow 0^{(1,7)} \rightarrow 0^{(2,24')} \rightarrow 0^{$	N.A		max		
Pollution degree 3 Dimensions		oction		m	3000
Dimensions 44 - (1.73') + (0.17')					3
$\begin{array}{c} 4.4 \\ (0.17^{"}) \\ \textcircled{0} \\ (0.37^{"}) \\ \textcircled{0} \\ \end{array}{0} \\ \textcircled{0} \\ \textcircled{0} \\ \textcircled{0} \\ \textcircled{0} \\ \end{array}{0} \\ \end{array}{0} \\ \begin{array}{0} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$					
	€.5(0.33") 8.5(0.34") 8.5(بل (1.97") (2.28") ج	3.2 (1.37") (0.12"	(2.28") 5	

Certifications and compliance

- 7.6 (0.30")



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	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 classification	

ETIM 8.0

EC000066 -Power contactor, AC switching