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Product designation			Power contactor
Product type designation			BG09
Contact characteristics		r	2
Number of poles		nr. V	3
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp		kV	690
		ĸv	6
Operational frequency	min		25
	min	Hz Hz	25 400
IEC Conventional free air thermal current Ith	max	<u>п</u> 2 А	20
Operational current le		A	20
Operational current le	AC-1 (≤40°C)	۸	20
	AC-1 (≤40 C) AC-1 (≤55°C)	A	18
	AC-1 (≤55 C) AC-1 (≤70°C)	A A	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-3 (400V) AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)	~	4
	230V	kW	2.2
	400V	kW	4
	400V 415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	0001		0
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series			
	≤24V	А	12
	48V	A	10
	75V	А	4
	110V	А	3
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10



	220V	А	2
EC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	A	2
EC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	A	2
	110V	Α	1
	220V	A	_
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	A	8
	48V	А	8
	75V	A	5
	110V	A	4
	220V	A	_
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	A	10
	48V	Α	10
	75V	A	6
	110V	Α	5
	220V	Α	0.8
EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series		_	
	≤24V	A	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0.8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	A	20
	aM (IEC)	<u>A</u>	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			70
	440V	A	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)		147	
	lth	W	4
Tightoning torque for terminals	AC3	W	0.81
Tightening torque for terminals		N I.a.:	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	lbin	0.74
Tightening torque for coil terminal	•	N.I	0.0
	min	Nm	0.8
	max min	Nm Ibft	1 0.8
	min	Intt	



		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section	Elevible w/e lug conductor acction			
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max		2.0
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor sectio	n		
		min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	224
Auxiliary contact char	acteristics			
Type of contact				1 NC
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15			
		230V	A	3
		400V	A	1.9
	40	500V	A	1.4
Operating current DC	12	110V	۸	0.0
Operating current DC	10	1100	A	2.9
Operating current DC	13	24V	А	2.9
		24V 48V	A	1.4
		48V 60V	A	1.4
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	А	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
DC coil operating				
DC rated control volta			V	48
DC operating voltage				
	pick-up		0/11	75
		min	U/ 1 10	16
		min max	%Us %Us	75 115



drop-out				
ulop-out		min	%Us	10
		max		25
ption ≤20°C				
		in-rush	W	3.2
		holding	W	3.2
y .				
1			cycles/h	3600
in AC				
	Closing NO			10
				12 21
		IIIdX	1115	21
	Opening NO	min	ms	9
				18
	Closina NC	max		. •
	· · •	min	ms	17
		max	ms	26
	Opening NC			
		min	ms	7
		max	ms	17
in DC				
	Closing NO			
				18
		max	ms	25
	Opening NO			0
				2 3
		IIIdX	1115	3
		min	ms	3
				5
	Opening NC	max	ine	0
	- p	min	ms	11
		max	ms	17
 for three-phase AC 	C motor			
		at 480V	А	7.6
_		at 600V	А	6.1
for single-phase	AC motor			0 F
				0.5
for three share ^	C motor	230V	ΗΥ	1.5
ior inree-phase A		200/2001	Цр	2
				2 3
				5
				5
		0.0,000		-
Contactor				
		AC current	А	20
on fuse, 600V				
	performance for single-phase	aption ≤20°C control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO Closing NO Closing NC Opening NO Closing NC Opening NC Closing NC For three-phase AC motor	aption ≤20°C in-rush holding control in AC Closing NO min max Opening NO min max Closing NC min max Opening NC min max Opening NO min max Opening NO min max Opening NO min max Opening NC min max N M M M M M M M M M M M M M M M M M M	appion ≤20°C in-rush W holding W in AC Closing NO in AC Closing NO min ms max ms Opening NO min ms max ms Closing NC min ms max ms Opening NC min ms max ms Opening NO min ms max ms Opening NO min ms max ms Opening NO min ms max ms Opening NC min ms max ms NC min ms max ms NC max ms Max

¹¹BG0901D048 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



		Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of auxili	iary contacts according to UL	¥		A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
4.4 (1.73") (0.17") (0.18") (0	34.9 (1.37")	44 (1.73") (1.17") (0.12" (0.12"	(2.28") 5	57 .24") RF9
A1 $A1$ $A1$ $A1$ $A1$ $A1$ $A1$ $A1$	$\begin{bmatrix} 3 & 5 & 21 \\ \hline & & \end{bmatrix}$			
Certifications and com 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			

Certificates

UL 60947-4-1

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EC000066 -Power contactor, AC switching