



		4	271 474
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
,		K V	0
Operational frequency	and the		0.5
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	130
	AC-3 (≤440V ≤55°C)	Α	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
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
1 Totalion ruse	gG (IEC)	Α	20
	aM (IEC)	_	10
Making conceity (PMS value)	alvi (IEC)	A 	92
Making capacity (RMS value)		A	92
Breaking capacity at voltage	4.40)./	•	70
	440V	A	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74



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Max				
Max Non 1 1 1 1 1 1 1 1 1	Tightening torque for coil terminal			
Max number of wires simultaneously connectable		min	Nm	0.8
Max number of wires simultaneously connectable		max	Nm	1
Max number of wires simultaneously connectable		min	lbft	0.8
Plexible w/o lug conductor section		max	lbft	0.74
Plexible w/o lug conductor section	Max number of wires simultaneously connectable		nr.	2
Flexible w/o lug conductor section	•			
Pictable C/w lug conductor section	Flexible w/o lug conductor section			
Flexible c/w lug conductor section	ŭ	min	mm²	0.75
Flexible c/w lug conductor section		max		
Minimax Mini	Flexible c/w lug conductor section			
Preside with insulated spade lug conductor section min max mm² 2.5 mm² 1.5 mm² 2.5 mm²	Tioxible of Hinag contactor coolien	min	mm²	1.5
Flexible with insulated spade lug conductor section min mm2 mm2 2.5				
March Marc	Flexible with insulated spade lug conductor section	max		2.0
Prower terminal protection according to IEC/EN 60529	r lexible with insulated spade lag conductor section	min	mm²	1.5
Province terminal protection according to IEC/EN 60529 Protection				
Notes Note	Power terminal protection according to IEC/EN 60520	Παλ	111111	
Operating position normal allowable vertical plan allowable ±30° Fixing Screw / DIN rail 35mm 35mm Weight g 180 35mm Auxiliary contact characteristics TV 1 NC Thermal current lth A 10 600 - Q600 Deperating current AC15 230V A 3 4 00 Q600 - Q600 Operating current DC12 230V A 1.4 1.4 Q600 - Q600				ir 20 when when
Normal allowable Normal all				
Signary	Operating position			ventical plan
Screw DIN rail 35mm 35				
Same		allowable		
Auxiliary contact characteristics Type of contact Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 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 48V A 1.4 60V A 1.2 110V A 0.6 115V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operating current DC10 Table Time the content of the conte	Fixing			
Auxiliary contact characteristics Type of contact Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 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 48V A 1.4 60V A 1.2 110V A 0.6 115V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operating current DC10 Table Time the content of the conte	Weight		g	180
Type of contact			<u> </u>	
Thermal current lth	•			1 NC
EC/EN 60947-5-1 designation	••		Α	
Comparising current AC15 230V A 3 400V A 1.9 500V A 1.4				A600 - Q600
230V				
A 00V		230V	Δ	3
S00V A 1.4				
Departing current DC12				
110V A 2.9	Operating current DC12			
Operating current DC13	operating earlier 2012	110\/	Δ	2 9
24V	Operating current DC13	1101		2.0
48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 0.5	Operating current DO13	24\/	٨	2.0
60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 0.6 0.55 0.2 0.5 0.2 0.5 0.2 0.5 0.2 0.5 0.2 0.5 0.3 0.5 0.				
110V				
125V A 0.55				
220V A 0.3				
Comparisons				
Mechanical life cycles 20000000 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 EMC compatibility Yes				
Mechanical life cycles 20000000 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 EMC compatibility Yes	Operations	۷۵۵۷	А	U. T
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 EMC compatibility yes	•		a, l · ·	20000000
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 EMC compatibility Yes			-	
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 EMC compatibility Yes			cycles	500000
rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility rated load cycles 500000 yes Yes	•			
mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility Yes	Pertormance level B10d according to EN/ISO 13489-1			
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility Yes			-	
EMC compatibility Yes		anical load	cycles	20000000
	Mirror contats according to IEC/EN 609474-4-1			
AC coil operating	EMC compatibility			Yes
	AC coil operating			



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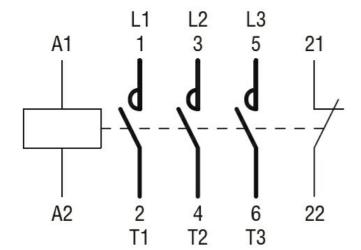
		min	V	12
		max	V	575
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	7-5
		min	%Us	75 445
	drop-out	max	%Us	115
	arop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	·	min	%Us	80
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz) /A	20
		in-rush	VA	30
	of 50/60Hz coil powered at 60Hz	holding	VA	4
	of 50/60Hz coil powered at 60Hz	in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz	- I o i di i i g	• • • • • • • • • • • • • • • • • • • •	
	o. co co poc. ca a. co	in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
DC coil operating				
DC rated control volta	ge			
		min	V	6
		max	V	250
Average coil consump	otion ≤20°C	max	V	
Average coil consump	otion ≤20°C	max in-rush	V W	3.2
		max	V	
Max cycles frequency		max in-rush	W W	3.2 3.2
Max cycles frequency Mechanical operations		max in-rush	V W	3.2 3.2
Max cycles frequency Mechanical operations Operating times	S	max in-rush	W W	3.2 3.2
Max cycles frequency Mechanical operations	ontrol	max in-rush	W W	3.2 3.2
Max cycles frequency Mechanical operations Operating times	ontrol in AC	max in-rush	W W	3.2 3.2
Max cycles frequency Mechanical operations Operating times	ontrol	max in-rush	W W	3.2 3.2
Max cycles frequency Mechanical operations Operating times	ontrol in AC	in-rush holding	W W cycles/h	3.2 3.2 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	in-rush holding min	V W W cycles/h	3.2 3.2 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	in-rush holding min	W W cycles/h ms ms	3.2 3.2 3600 12 21
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	in-rush holding min max	W W cycles/h ms ms	3.2 3.2 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	in-rush holding min max min max	W W cycles/h ms ms	3.2 3.2 3600 12 21 9 18
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	in-rush holding min max min max min max	W W Cycles/h ms ms ms	3.2 3.2 3600 12 21 9 18
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	in-rush holding min max min max	W W cycles/h ms ms	3.2 3.2 3600 12 21 9 18
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	in-rush holding min max min max min max min max	W W cycles/h ms ms ms	3.2 3.2 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	in-rush holding min max min max min max min max min max	W W cycles/h ms ms ms ms ms	3.2 3.2 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC Opening NC	in-rush holding min max min max min max min max	W W cycles/h ms ms ms	3.2 3.2 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO Closing NC	in-rush holding min max min max min max min max min max	W W cycles/h ms ms ms ms ms	3.2 3.2 3600 12 21 9 18 17 26



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		min	ms	18
		max	ms	25
	Opening I			
	5 p 3 m 3 m	min	ms	2
		max	ms	3
	Closing N		1113	3
	Closing N	min	mc	3
			ms	
	On animal	max	ms	5
	Opening I			
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA)) for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe	erformance			
'	for single-phase AC motor			
	11. 33.0 F2.3 / C	110/120V	hp	0.5
		230V	hp	1.5
	for three phase AC mater	230 V	пр	1.0
	for three-phase AC motor	000/000	la sa	0
		200/208V	hp	2
		220/230V	hp	3
		460/480V	hp	5
		575/600V	hp	5
Contact rating of auxili	ary contacts according to UL			A600 - Q600
General USE				
General USE	Contactor			
General USE	Contactor	AC current	A	20
	Contactor	AC current	Α	20
Ambient conditions	Contactor	AC current	Α	20
		AC current	Α	20
Ambient conditions	Contactor Operating temperature			
Ambient conditions		min	°C	-40
Ambient conditions	Operating temperature			
Ambient conditions		min max	°C °C	-40 60
Ambient conditions	Operating temperature	min max min	°C °C	-40 60 -55
Ambient conditions Temperature	Operating temperature	min max	°C °C	-40 60 -55 70
Ambient conditions Temperature Max altitude	Operating temperature Storage temperature	min max min	°C °C	-40 60 -55
Ambient conditions Temperature Max altitude Resistance & Protecti	Operating temperature Storage temperature	min max min	°C °C	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude	Operating temperature Storage temperature	min max min	°C °C	-40 60 -55 70
Ambient conditions Temperature Max altitude Resistance & Protecti	Operating temperature Storage temperature	min max min	°C °C	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature on	min max min max	°C °C	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree	Operating temperature Storage temperature on	min max min	°C °C °C m	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature	min max min max	°C °C °C m	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature on	min max min max	°C °C °C m	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature on	min max min max	°C °C °C m	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature	min max min max min max	°C °C °C m	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature	min max min max	°C °C °C °C m	-40 60 -55 70 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature	min max min max	°C °C °C °C m	-40 60 -55 70 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions 44 (0.17") (0.33") (0.38")	Operating temperature Storage temperature	min max min max	°C °C °C °C m	-40 60 -55 70 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions 44 (0.17") (0.33") (0.33") (0.33")	Operating temperature Storage temperature	min max min max min max 3.2 (0.12	°C °C °C °C m	-40 60 -55 70 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions 44 (0.17") (0.33") (0.38")	Operating temperature Storage temperature	min max min max	°C °C °C °C m	-40 60 -55 70 3000 3





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

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching