



		4	211 474
Product designation			Power contactor
Product type designation			BG09
Contact characteristics			
Number of poles		nr.	3
·		V	690
Rated insulation voltage Ui IEC/EN			
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)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)	70 + (+00V)		_
Rated operational power AC-3 (1293 C)	2201/	LAAA	2.2
	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 ≤ 1ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	10
	75V	A	4
	110V	A	3
	220V		
IFO was a support to in DOA with 1 /D < Area with 0 males in parise	ZZU V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	1100	/ \	10



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	ZZ0 V		
ILC max current le in DCT with L/1\ 2 mis with 4 poles in series	≤24V	۸	16
	≤24 V 48 V	A A	16
	75V	A	10
	110V		10
		A	
IFO many automate in DOO DOF with L/D < 45 may with 4 males in agriculture.	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	10.41.7		_
	≤24V	A	7
	48V	Α	6
	75V	Α	2
	110V	Α	1
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	Α	4
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0.8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	A	0.8
Short-time allowable current for 10s (IEC/EN60947-1)	ZZOV	A	96
Protection fuse			
1 Tote Citori Tuse	gG (IEC)	٨	20
		A	20
Making consists (DMC solve)	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			70
	440V	A	72
	500V	Α	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
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
		-	



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Max number of wires simultaneously connectable nr. 2 Conductor section Flexible with lug conductor section min max mm² mm² mm² mm² mm² mm² mm² mm² mm² mm		max	lbft	0.74
Flexible win lug conductor section	Max number of wires simultaneously connectable		nr.	2
Please	Conductor section			
Place Plac	Flexible w/o lug conductor section			
Flexible c/w lug conductor section min max mm² 1.5 mm² 2.5		min	mm²	0.75
Pickible with insulated spade lug conductor section min mm² 1.5 mm² 2.5 mm²		max	mm²	2.5
Plexible with insulated spade lug conductor section min	Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section min mm² 1.5 mm² 2.5 mm² 2.5		min		
mind max mind max 1.5 cm Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical features Operating position normal allowable Vertical plan ±30° ±30° ±30° ±30° ±30° ±30° ±30° ±30°			mm²	2.5
Mathematical relatures	Flexible with insulated spade lug conductor			
Power terminal protection according to IEC/EN 60529				
Mechanical features Operating position normal allowable Vertical plan + 30° Fixing g 203 Weight g 203 Auxiliary contact characteristics 1 NC Type of contact A 10 EC/EN 60947-5-1 designation A 10 Operating current AC15 230V A 3 Operating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 25 A 0.6 Operating current DC13 C C C 0.0 0.0 0.0 0.0 <		max	mm²	
Operating position normal allowable Vertical plan 130° Fixing Screw / DIN rail 350° Weight 9 203 Auxiliary contact characteristics T Type of contact 1 NC Thermal current th A 10 IEC/EN 60947-5-1 designation A 600 - Q600 Operating current AC15 230V A 1 14 Operating current DC12 110V A 2 9 Operating current DC12 110V A 2 9 Operating current DC13 24V A 2 9 Perating current DC14 48V A 1.4 AB 48V A 1.4 A 1.2 AB 5.5 A 1.2 AB 7.5 A 1.2 AB 8.5 A 1.2 AB 9.5 A 1.2 AB 9.5 A 1.4 AB 9.5 A 1.2 AB 9.5 A 1.2 AB 1.2 A 1.2 AB 1.2 <				IP20 when wired
Pixing				
Fixing allowable ± 30° Fixing Screw / DIN rail 35mm Weight g 203 Auxiliary contact characteristics Type of contact 1 NC Thermal current lth A 10 IEC/EN 60947-5-1 designation 230V A 3 Operating current AC15 230V A 1.9 100 perating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 4 8W A 1.4 60V A 1.4 6 00V A 1.2 4 A 2.9 1 10V A 2.9 A A 1.4 A 1.6 A 1.2 A 1.5 A 1.5 A 1.5 A 1.5 A 1.6 A 1.2 A	Operating position			
Screw / DIN rail 35mm 35mm 35mm 35mm 35mm 35mm 35mm 35m				
Name		allowable		
Weight g 203 Auxiliary contact characteristics Type of contact 1 NC Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - Q600 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 40 A 2.9 40 A 1.4 60V A 1.2 60V	Fixing			
Auxiliary contact characteristics	Weight		- 0	
Type of contact			y	203
Thermal current lth				1 NC
EC/EN 60947-5-1 designation			Δ	
Departing current AC15			- / \	
Marting Mart				71000 4000
A 00V A 1.9	operating earrors re-	230V	Α	3
Name				
Name				
Name	Operating current DC12			
Operating current DC13	, ,	110V	Α	2.9
24V	Operating current DC13			
Compatibility Compatibilit		24V	Α	2.9
110V A 0.6 125V A 0.55 125V A 0.55 125V A 0.3 125V A 0.1 1		48V	Α	1.4
125V A 0.55		60V	Α	1.2
220V A 0.3 600V A 0.1		110V	Α	0.6
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 cycles 500000 cycles 5000000 cycles 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 2000000000 20000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 20000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000			Α	0.55
Operations Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data rated load mechanical load mechanical load mechanical load mechanical load mechanical load cycles 500000 cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes DC coil operating V 24 DC operating voltage pick-up min %Us 75				
Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data rated load performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 500000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating V 24 DC operating voltage V 24 DC operating voltage min %Us 75		600V	Α	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 EMC compatibility yes DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 75	·			
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 DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 75				
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 DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 75			cycles	500000
rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up min %Us 75	•			
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up min %Us 75	Performance level B10d according to EN/ISO 13489-1			50000
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up min %Us 75			-	
EMC compatibility DC coil operating DC rated control voltage DC operating voltage pick-up min %Us 75	Mirror contate according to IFC/FN C00474 4 4	mechanical load	cycles	
DC coil operating DC rated control voltage DC operating voltage pick-up min %Us 75				-
DC rated control voltage DC operating voltage pick-up min %Us 75				yes
DC operating voltage pick-up min %Us 75	•		\/	24
pick-up min %Us 75	•		V	<u> </u>
min %Us 75	·			
	ριοκ-αρ	min	% le	75
111dA 7003 110				

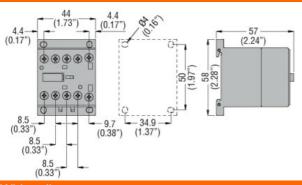


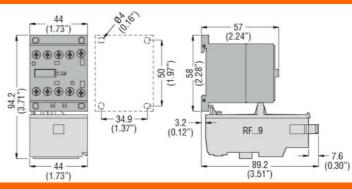
ENERGY AND AUTOMATION

	drop-out		min	%Us	10
			max	%Us	25
Average coil consumpt	ion ≤20°C		max	7000	
			in-rush	W	2.3
			holding	W	2.3
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC	Ola sin n NO			
		Closing NO	min	mo	12
			min max	ms ms	21
		Opening NO	IIIax	1113	21
		Opening No	min	ms	9
			max	ms	18
		Closing NC			-
		Ŭ	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			4.0
			min	ms	18
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC	Пах	1110	
		Greening in C	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	tor three-phase A	C motor		_	
			at 480V	A	7.6
Violded meash and a little	rformore e		at 600V	Α	6.1
Yielded mechanical per		AC motor			
	for single-phase	AO IIIUIUI	110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor	2001	• • • •	
	, p		200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE					
	Contactor				
			AC current	A	20
Short-circuit protection					
	High fault				

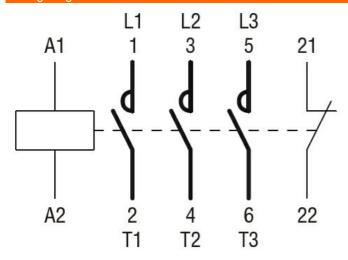


		Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class	, ,	J
	0(11(-1)	i use class		
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxilia	ry contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	n			
Pollution degree				3
Dimensions				





Wiring diagrams



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

11BG0901L024



11BG0901L024

Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NC, 24VDC, niski pobór mocy

CCC	
cULus	
EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching