



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
		KV	
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-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)	()		
rated operational power rice of (1=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 ≤ 1ms with 1 poles in series	0001		
120 max current le in 201 with 2102 mis with 1 poles in series	≤24V	Α	12
	48V	A	10
	75V	Α	4
	110V	Α	3
	220V	Α	
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	2201	- , ,	
120 max outlette in 201 with 2/112 mile with a poles in selies	≤24V	٨	16
		A	16
	48V	A	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
150			



	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
, , , , , , , , , , , , , , , , , , ,	≤24V	Α	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	Α	0.8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	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
<del></del>	max	Ibin	0.74
Tightening torque for coil terminal			0.0
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
Maria de la Caracta III	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2



Conductor section				
	Flexible w/o lug conductor section		_	0.75
		min	mm²	0.75
	<u> </u>	max	mm²	2.5
	Flexible c/w lug conductor section	•		4.5
		min	mm²	1.5
	Elevible with insulated and deliver and destance atten-	max	mm²	2.5
	Flexible with insulated spade lug conductor section		ma ma ?	4 5
		min	mm² mm²	1.5 2.5
Dower terminal protect	stion according to IEC/EN 60520	max	111111	IP20 when wired
Mechanical features	ction according to IEC/EN 60529			iP20 when whea
Operating position		normal		Vertical plan
		allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	180
Auxiliary contact chara	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
	m	nechanical load	cycles	20000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
Rated AC voltage at 6	60Hz		V	24
AC coil operating				
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			



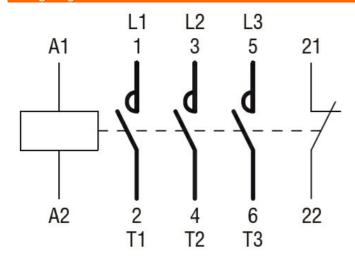
			min	%Us	20
A O	ti		max	%Us	55
AC average coil consu	•	rod at EOUz			
	of 50/60Hz coil powe	ered at 50HZ	in-rush	VA	30
			holding	VA VA	4
	of 50/60Hz coil powe	red at 60Hz	riolaling	VA	
	01 00/001 12 0011 powe	100 at 00112	in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered	l at 60Hz	9		
			in-rush	VA	30
			holding	VA	4
Dissipation at holding ≤	≤20°C 50Hz		<u> </u>	W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ntrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			4-
			min	ms	17
		On anin a NC	max	ms	26
		Opening NC	min	<b></b> .	7
			min	ms ms	7 17
	in DC		max	ms	17
	III DC	Closing NO			
		Closing 140	min	ms	18
			max	ms	25
		Opening NO			
		1 0	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	tor three-phase AC m	otor			7.0
			at 480V	A	7.6
Violate at most altrastication	wf a was a to a a		at 600V	Α	6.1
Yielded mechanical pe					
	for single-phase AC	motor	440/4007	LID	0.5
			110/120V	HP	0.5
	for three phase AC =	notor	230V	HP	1.5
	for three-phase AC n	IIOIOI	200/208V	HP	2
			200/208V 220/230V	HP	2 3
			ZZU/Z3UV	1 117	J



**ENERGY AND AUTOMATION** 

	460/480V	HP	5	
	575/600V	HP	5	
General USE				
Contactor				
	AC current	Α	20	
Short-circuit protection fuse, 600V				
High fault				
	Short circuit current	kA	100	
	Fuse rating	Α	30	
	Fuse class		J	
Standard fault				
	Short circuit current	kA	5	
	Fuse rating	Α	30	
Contact rating of auxiliary 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				
Pollution degree			3	
Dimensions				
(1,73") (0,17") 8.6	(1.73") (1.73") (1.73")	T- (0)	57 <del>-</del> 24")	
(0.17") (0.17") (0.33") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38")		(2.28")	24") RF9	
8.5 (0.33") 8.5 (0.33")	(1.73")		89.2 (3.51")	7.6 (0.30")

## Wiring diagrams



## Certifications and compliance





**ENERGY AND AUTOMATION** 

Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NC, 24VAC 60Hz

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Certificates

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

CCC

CULus

ETIM classification

EAC

ETIM 8.0

EC000066 -Power contactor, AC switching