



		4	211 472
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
Operational frequency		IX V	0
Operational frequency	min	U→	25
	min	Hz	25
IEC Conventional free air thermal current Ith	max	Hz	400
		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)			
	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	1000	
120 max current to in 201 with 271 2 mile with 1 poles in series	≤24V	Α	12
	48V	A	10
	75V	A	
			4
	110V	A	3
IFO	220V	A	<u>-</u>
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			4 =
	≤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
	220V	Α	2

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series



	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	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			
120 max carrent to in 200 200 min 211 = 10mb mar 2 poloc in conce	≤24V	Α	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	
IFC may current to in DC2 DC5 with L/D < 15mg with 2 notes in cories	220 V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<b>-04)</b> /	۸	40
	≤24V	A	10
	48V	Α	10
	75V	A	6
	110V	Α	5
	220V	A	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			
1.9.10.19 10.14.0 10.110.1111.10.10	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Tightening torque for coil terminal	Шах	10111	J.1 T
rightening torque for contentinal	min	Nlm	0.8
	min	Nm Nm	
	max		1
	min	lbft lbft	0.8
Mary manufacture of using a classification of the second o	max	Ibft	0.74
Max number of wires simultaneously connectable		nr.	2



				_
Conductor section	Elevible w/e lug conductor costina			
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	Hax		
	r ionibio of it rag contaction coolien	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	, ,	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	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	177
Auxiliary contact char	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	A	2.9
Operating current DC	13		_	
		24V	A	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V 220V	A	0.55 0.3
		600V	A	0.3
Operations		000 V	Α	0.1
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
-	10d according to EN/ISO 13489-1			
T GITGITHALIGO TOTOL D	rea deceraing to 214100 to 100 t	rated load	cycles	500000
	m	nechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		-,	yes
EMC compatibility	<u> </u>			Yes
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
	•			



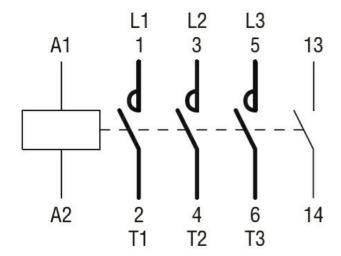
			min	%Us	20
			max	%Us	55
	of 50/60Hz coi	il powered at 60Hz			
		pick-up			
		·	min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil cons	sumption at 20°C		max	7000	
7.0 average con cons		il powered at 50Hz			
	01 30/00112 001	i powered at 30/12	in-rush	VA	30
			holding	VA	4
	-f F0/00LI	il november of COLL-	noluling	VA	4
	01 50/60HZ CO	il powered at 60Hz			0.5
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil po	owered at 60Hz	_		
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	g ≤20°C 50Hz			W	0.95
Max cycles frequency	y				
Mechanical operation	<u></u> -			cycles/h	3600
Operating times					
Average time for Us	control				
-	in AC				
		Closing NO			
		Ü	min	ms	12
			max	ms	21
		Opening NO			
		Sparmig 113	min	ms	9
			max	ms	18
			max	0	10
		Closing NC			
		Closing NC	min	me	17
		Closing NC	min	ms	17
		-	min max	ms ms	17 26
		Closing NC Opening NC	max	ms	26
		-	max min	ms ms	<ul><li>26</li><li>7</li></ul>
	in DO	-	max	ms	26
	in DC	Opening NC	max min	ms ms	<ul><li>26</li><li>7</li></ul>
	in DC	-	max min max	ms ms ms	26 7 17
	in DC	Opening NC	max min max min	ms ms ms	26 7 17
	in DC	Opening NC Closing NO	max min max	ms ms ms	26 7 17
	in DC	Opening NC	max min max min max	ms ms ms	26 7 17 18 25
	in DC	Opening NC Closing NO	max min max min max min max	ms ms ms	26 7 17 18 25 2
	in DC	Opening NC  Closing NO  Opening NO	max min max min max	ms ms ms	26 7 17 18 25
	in DC	Opening NC Closing NO	max min max min max min max	ms ms ms	26 7 17 18 25 2
	in DC	Opening NC  Closing NO  Opening NO	max min max min max min max	ms ms ms	26 7 17 18 25 2
	in DC	Opening NC  Closing NO  Opening NO	max min max min max min max	ms ms ms ms	26 7 17 18 25 2
	in DC	Opening NC  Closing NO  Opening NO	max min max min max min max min max min	ms ms ms ms ms ms	26 7 17 18 25 2 3
	in DC	Opening NC  Closing NO  Opening NO  Closing NC	max min max min max min max min max min	ms ms ms ms ms ms	26 7 17 18 25 2 3
	in DC	Opening NC  Closing NO  Opening NO  Closing NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5
UL technical data	in DC	Opening NC  Closing NO  Opening NO  Closing NC	max min max min max min max min max	ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5
UL technical data Full-load current (FL/		Opening NC  Closing NO  Opening NO  Closing NC  Opening NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5
UL technical data Full-load current (FL/		Opening NC  Closing NO  Opening NO  Closing NC  Opening NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 5 11 17
		Opening NC  Closing NO  Opening NO  Closing NC  Opening NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5

**ENERGY AND AUTOMATION** 

Yielded mechanical	performance			
	for single-phase AC motor			
	3 1	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	2001		1.0
	for three phase Ao motor	200/208V	HP	2
		200/208V 220/230V	HP	3
		460/480V	HP	
				5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protect	ion 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 au	xiliary contacts according to UL	i doo ramig	- ' '	A600 - Q600
Ambient conditions				A000 - Q000
Temperature				
	Operating temperature		0.0	50
		min	°C	-50
	-	max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ction			
Pollution degree				3
Dimensions				
44 4	4	11 44 67		
44 (1.73") (0.1	47") P.6	(1.73") O <sup>N</sup> .6		57 <del>-</del> .24")
(0.17")	57 (2.24")	0 0 0	97 (2	.24 )
	[ P			
	(1.97")	96 9	(2.28")	
<b>⊕ ⊕ ⊕ ⊕</b>		8. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.		
<b>③ ③ ③ ③ ③</b>		8. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.		RE 9
8.5 (0.33") 9.7			)	RF9
(0.33") (0.33") (0.38") (0.38")		34.9 3.2 (1.37") (0.12"	,	7.6
8.5 (0.33") 9.7		8. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	)	RF9 -7.6 89.2 (0.30

5/6





## 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 classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching