



Product designation Product type designation			Power contactor 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			
	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)	,		
, ,	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	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	A	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	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		
ILO MAX current le in DO3-DO3 with L/TC3 Toms with 1 poles in series	~ 04\/	۸	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	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	ZZU V		-
TEO may content to in 200-2003 with E/K > 13ms with 3 poles in series	-01V	۸	10
	≤24V	A	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/ENG0047.1)	220 V	A	96
Short-time allowable current for 10s (IEC/EN60947-1)		A	90
Protection fuse	. 0 (150)		00
	gG (IEC)	Α	20
	aM (IEC)	A	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)			. •
. 5.1.5. Glospation por poro (avorago valuo)	Ith	W	4
	AC-3	W	0.81
Tightoning targue for terminals	AU-3	٧٧	U.O I
Tightening torque for terminals			0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	111111	15111	•



		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	
		min	mm²	0.75
	Electrical Laboratoria	max	mm²	2.5
	Flexible c/w lug conductor section		2	4.5
		min	mm²	1.5
	Clavible with insulated anode lun conductor costion	max	mm²	2.5
	Flexible with insulated spade lug conductor section		· · 2	4.5
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property wired
Operating position				
Sporating position		normal		Vertical plan
		allowable		±30°
		anowabio		Screw / DIN rail
Fixing				35mm
Weight			g	182
Conductor section				-
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chai	racteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
				A600 - Q600
		230V	A	A600 - Q600 3
		230V 400V	A A	
				3
Operating current AC	215	400V	Α	3 1.9
Operating current AC	215	400V	Α	3 1.9
Operating current AC	C12	400V 500V	A A	3 1.9 1.4
Operating current AC	C12	400V 500V	A A	3 1.9 1.4
Operating current AC	C12	400V 500V 110V	A A	3 1.9 1.4 2.9
Operating current AC	C12	400V 500V 110V 24V	A A A	3 1.9 1.4 2.9
Operating current AC	C12	400V 500V 110V 24V 48V	A A A A	3 1.9 1.4 2.9 2.9 1.4
Operating current AC	C12	400V 500V 110V 24V 48V 60V	A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC	C12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC	C12	400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC Operating current DC Operating current DC	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current AC Operating current DC Operating current DC	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

Rated AC voltage at 5				V	230
AC operating voltage					
	of 50/60Hz coil p				
		pick-up	min	%Us	75
			max	%Us	115
		drop-out	max	7003	110
		a. op 0 a.	min	%Us	20
			max	%Us	55
	of 50/60Hz coil p	owered at 60Hz			
	-	pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil cons					
	of 50/60Hz coil p	owered at 50Hz		\	0.0
			in-rush	VA	30
	of E0/0011=!!	awared at COLL-	holding	VA	4
	of 50/60Hz coil p	owered at 60HZ	in-rush	VA	25
			holding	VA VA	3
	of 60Hz coil power	orod at 60Hz	Holding		3
	or dor iz con powe	ered at 00112	in-rush	VA	30
			III I UOII	٧/١	00
			holdina	VA	4
Dissipation at holding	≤20°C 50Hz		holding	VA W	0.95
			holding	VA W	0.95
Max cycles frequency	,				0.95
Nax cycles frequency Nechanical operation	,			W	0.95
Max cycles frequency Mechanical operation Operating times	,			W	0.95
Max cycles frequency Mechanical operation Operating times	,			W	0.95
Max cycles frequency Mechanical operation Operating times	control	Closing NO		W	0.95 3600
Max cycles frequency Mechanical operation Operating times	control	Closing NO	min	W cycles/h ms	0.95 3600
Max cycles frequency Mechanical operation Operating times	control	- -		W cycles/h	0.95 3600
Max cycles frequency Mechanical operation Operating times	control	Closing NO Opening NO	min max	W cycles/h ms ms	0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	control	- -	min max min	W cycles/h ms ms	0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	control	Opening NO	min max	W cycles/h ms ms	0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	control	- -	min max min max	W cycles/h ms ms ms	0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	control	Opening NO	min max min max min	W cycles/h ms ms ms ms	0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	control	Opening NO Closing NC	min max min max	W cycles/h ms ms ms	0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	control	Opening NO	min max min max min max	w cycles/h ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	control	Opening NO Closing NC	min max min max min max min	w cycles/h ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	control	Opening NO Closing NC	min max min max min max	w cycles/h ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC	min max min max min max min	w cycles/h ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC	min max min max min max min	w cycles/h ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	w cycles/h ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC	min max min max min max min max	w cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max	w cycles/h ms	0.95 3600 12 21 9 18 17 26 7 17 18 25
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max	w cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Dissipation at holding Max cycles frequency Mechanical operation Departing times Average time for Us of the control of the con	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	w cycles/h ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max	w cycles/h ms	0.95 3600 12 21 9 18 17 26 7 17 18 25

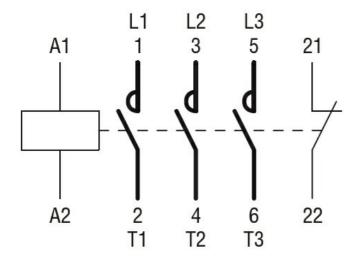


Opening NC

	Opening in	0		
		min	ms	11
		max	ms	17
UL technical data				
	for the combined A.C. market			
Full-load current (FLA)	for three-phase AC motor		_	
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe	erformance			
riolada moonamaa po	for single-phase AC motor			
	ioi sirigie-priase AC motor	440/420\/	LID	0.5
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
_ 		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	fuse 600V			
Chort official protoction				
	High fault	Chart discult assess of	I. A	400
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
0 1 1 1 1		ruse class		
	ary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Ctoro ao tomo o acturo	IIIax		+10
	Storage temperature		^~	00
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				
(0.38") (0.38")	57 (2.24") (2.24") (3.37")	3.2 (1.37") 3.2 (0.12)	(2.28")	RE9 7.6 (0.30")
8.5 (0.33")		(1.73")		89.2 (3.51") (0.30")
Wiring diagrams				

ENERGY AND AUTOMATION

TŘÍPÓLOVÝ MINISTYKAČ, JMENOVITÝ PROUD IE (AC3)=9A, CÍVKA 230VAC, 1V POMOCNÝ



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