





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	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	A	10
	110V	A	10
	220V	A	2
IFO	2201	A	
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	A	8
	75V	A	5
	110V	A	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		- , ,	0,0
The max current to in 500-500 with E/N = 10m3 with 4 poles in series	≤24V	Α	10
	48V		10
		A	
	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)	()	A	92
Breaking capacity at voltage		, ,	
broaking capacity at voltage	4401/	۸	70
	440V	A	72
	500V	A	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals			
9 · · · · · · · · · · · · · · · · · · ·	min	Nm	0.8
		Nm	
	max		1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9





		max	Ibin	9
	s simultaneously connectable		Nr.	2
Conductor section	ANA/O/I/:I			
	AWG/Kcmil	200 04		10
	Florible w/s lug conductor acction	max		12
	Flexible w/o lug conductor section	min	mana ²	0.75
		min	mm² mm²	0.75 2.5
	Florible of white conductor acction	max	ШШ	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.0
	r lexible with insulated space lug conductor section	min	mm²	1.5
		max	mm²	2.5
		max		IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				ртороту тиго
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
-				Screw / DIN rail
Fixing				35mm
Weight			g	215
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact cha	racteristics			
Auxiliary contact cha Thermal current Ith	racteristics		A	10
Thermal current Ith			А	
Thermal current Ith IEC/EN 60947-5-1 d	esignation		A	10
Thermal current Ith IEC/EN 60947-5-1 d	esignation	230V	A A	10
Thermal current Ith IEC/EN 60947-5-1 d	esignation	230V 400V		10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 d	esignation		A	10 A600 - Q600
Thermal current lth IEC/EN 60947-5-1 d Operating current AC	esignation C15	400V	A A	10 A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 d Operating current AC	esignation C15	400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC	esignation C15	400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC	esignation C15	400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC	esignation C15	400V 500V 110V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC	esignation C15	400V 500V 110V 24V	A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC	esignation C15	400V 500V 110V 24V 48V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC	esignation C15	400V 500V 110V 24V 48V 60V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC	esignation C15	400V 500V 110V 24V 48V 60V 110V	A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC	esignation C15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current lth IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC	esignation C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current lth IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC	esignation C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC	esignation C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
	esignation C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation C15 C12 C13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation C15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 A600 - Q600 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
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation C15 C12 C13 C13 C10d 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	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	esignation C15 C12 C13 C10 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	10 A600 - Q600 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 500000 20000000
Thermal current Ith IEC/EN 60947-5-1 d Operating current ACOOPERATION COPERATION COPERAT	esignation C15 C12 C13 C13 C10d 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	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



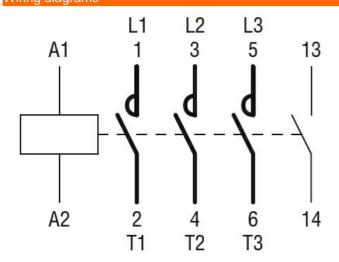


DC rated control voltage	ne			V	110
DC operating voltage	<i>)</i> -			•	
, ,	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
A	U 40000		max	%Us	25
Average coil consump	tion ≤20°C		in ruch	۱۸/	2.2
			in-rush holding	W W	3.2 3.2
Max cycles frequency			Holding	VV	5.2
Mechanical operation				cycles/h	3600
Operating times				0,0.00,	
Average time for Us co	ontrol				
· ·	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO	_		
			min	ms	9
		Closing NC	max	ms	18
		Closing NC	min	ms	17
			max	ms	26
		Opening NC	max		20
		, 0	min	ms	7
			max	ms	17
	in DC				_
		Closing NO			
			min	ms	18
		On aning NO	max	ms	25
		Opening NO	min	me	2
			max	ms ms	3
		Closing NC	max	1113	3
		5.55g 115	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 n	notor	. 1001	Α.	7.0
			at 480V at 600V	A A	7.6 6.1
Yielded mechanical pe	rformance		at book	A	U. I
пешей теспатісаі ре	for single-phase AC	motor			
	ioi siligio-pilase Ao	motor	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

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, **1NO AUXILIARY CONTACT**

General USE				
	Contactor			
		AC current	Α	20
Short-circuit protecti	on 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
		Fuse class		RK5
Contact rating of aux	kiliary contacts according to UL			A600 - Q600
Ambient conditions	·			
Temperature				
·	Operating temperature			
	21 2 2 3 2 7 2 2 2	min	°C	-50
		max	°C	+70
	Storage temperature			
	1.5	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
Dimensions				
		11 (5.00)		
(1.73") (0.17	57	(1.73") (1.73") (1.73")	r (0	57
(0.17")	(2.24")	0 0 0	% (2	.24")
$\bullet \bullet \bullet \bullet \bullet$		● ● ● ●	5	
	50 (1.97") 58 (2.28")	(1.57)	(2.28	
⊕ ⊕ ⊕ ⊕	1 2	3.71	6	
O H H O		34.9		
8.5 (0.33") 9.7 (0.38"	34.9 ") (1.37")	(1.37") 3.2- (0.12"		RF9
8.5 (0.33")		5		76
8.5 (0.33")		44	_	89.2 (3.51") 7.6
Wiring diagrams		(1.73")		(3.31)



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



11BG0910D110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, **1NO AUXILIARY CONTACT**

	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
	EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching