



Product designation			Power contactor
Product type designation			BG09
Contact characteristics			
Number of poles		Nr.	4
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		A	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	A	4
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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	12
	48V	A	10
	75V	Α	4
	110V	А	3
	220V	A	<u> </u>
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	15
	48V	Α	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	_ · · ·	_	
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	А	2



IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201		
	≤24V	А	8
	48V	A	8
	48V 75V	A	8 5
	110V		5 4
		A	
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series		_	
	≤24V	Α	10
	48V	A	10
	75V	A	6
	110V	А	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	96
Protection fuse			
	gG (IEC)	А	20
	• • •		10
Making conscitu (DMS value)	aM (IEC)	A A	
Making capacity (RMS value)		A	92
Breaking capacity at voltage			
	440V	Α	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
		Ibin	
Max number of wires simultaneously connectable	max		9
Max number of wires simultaneously connectable		Nr.	۷
Conductor section			
AWG/Kcmil			
	max		12
Flexible w/o lug conductor section			
	min	mm²	0.75



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		max	mm²	2.5
	Flexible c/w lug conduc			-
		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 properly wired
Mechanical features				property writed
Operating position				
51		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	224
Conductor section				
	AWG/kcmil conductor			10
A		max		12
Auxiliary contact char	acteristics		^	10
Thermal current lth	aignotion		A	10
IEC/EN 60947-5-1 de Operations	esignation			Q600
Mechanical life			oveloc	20000000
Electrical life			cycles cycles	500000
Safety related data			Cycles	300000
-	10d according to EN/ISO	13489-1		
		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats accord	ling to IEC/EN 609474-4-1		0)0.00	yes
EMC compatibility	<u> </u>			yes
DC coil operating				,
DC rated control volta	age		V	125
DC operating voltage				
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
			%Us	10
		min		
		min max	%Us	25
Average coil consum	ption ≤20°C	max	%Us	25
Average coil consum	ption ≤20°C	max in-rush	%Us W	25 3.2
		max	%Us	25
Max cycles frequency		max in-rush	%Us W W	25 3.2 3.2
Max cycles frequency Mechanical operation		max in-rush	%Us W	25 3.2 3.2
Max cycles frequency Mechanical operation Operating times		max in-rush	%Us W W	25 3.2 3.2
Max cycles frequency Mechanical operation Operating times	control	max in-rush	%Us W W	25 3.2 3.2
Max cycles frequency Mechanical operation Operating times		max in-rush holding	%Us W W	25 3.2 3.2
Max cycles frequency Mechanical operation Operating times	control	max in-rush holding Closing NO	%Us W W	25 3.2 3.2 3600
Max cycles frequency Mechanical operation Operating times	control	Closing NO min	%Us W W cycles/h ms	25 3.2 3.2 3600 12
Max cycles frequency Mechanical operation Operating times	control	Closing NO min max	%Us W W	25 3.2 3.2 3600
Average coil consum Max cycles frequency Mechanical operation Operating times Average time for Us o	control	Closing NO min	%Us W W cycles/h ms	25 3.2 3.2 3600 12

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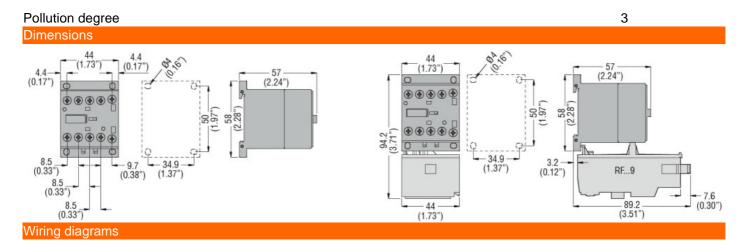
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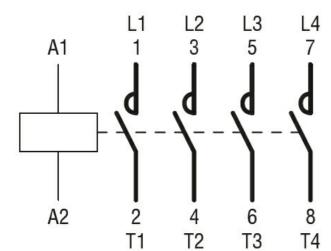
		Closing NC			
		closing No	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			•
			min	ms	2
			max	ms	3
		Closing NC	min	ms	3
			max	ms	5
		Opening NC	IIIdX	1115	5
			min	ms	11
			max	ms	17
UL technical data			max	1110	
) for three-phase AC m	otor			
()			at 480V	А	7.6
			at 600V	А	6.1
Yielded mechanical pe	erformance				
	for single-phase AC	motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC n	notor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE	_				
	Contactor				
<u></u>			AC current	Α	20
Short-circuit protection					
	High fault		Oh out stratit	I. A	100
			Short circuit current	kA ^	100
			Fuse rating Fuse class	A	30 J
	Standard fault		1 036 01922		J
			Short circuit current	kA	5
			Fuse rating	A	30
			Fuse class		RK5
Ambient conditions					- -
Temperature					
•	Operating temperatu	re			
			min	°C	-50
			max	°C	+70
	Storage temperature				
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Resistance & Protection	on				

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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 classificatio	n	
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching