

Product designation Power contactor Product type designation **BG12** Contact characteristics 3 Number of poles nr. Rated insulation voltage Ui IEC/EN V 690 kV Rated impulse withstand voltage Uimp 6 **Operational frequency** min Hz 25 Hz 400 max IEC Conventional free air thermal current Ith 20 А Operational current le AC-1 (≤40°C) А 20 AC-3 (≤440V ≤55°C) А 12 AC-4 (400V) А 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 440V kW 5.5 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 Short-time allowable current for 10s (IEC/EN60947-1) 96 А Protection fuse 20 gG (IEC) А aM (IEC) А 16 Making capacity (RMS value) А 120 Breaking capacity at voltage 440V А 96 500V 72 А 690V А 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) lth W 4 AC3 W 1.44 Tightening torque for terminals min Nm 0.8 max Nm 1

## Tightening torque for coil terminal

lbin

lbin

min max 0.59

0.74



	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm²	0.75
	max	mm²	2.5
Flexible c/w lug conductor section			
	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 protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			
	normal		vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	183
Auxiliary contact characteristics			
Type of contact			1 NC
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
	230V	А	3
	400V	А	1.9
	500V	А	1.4
Operating current DC12			
	110V	А	2.9
Operating current DC13			
	24V	А	2.9
	48V	А	1.4
	60V	А	1.2
	110V	А	0.6
	125V	А	0.55
	220V	А	0.3
	600V	А	0.1
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	500000
Safety related data		-	
Performance level B10d according to EN/ISO 13489-1			
-	rated load	cycles	500000
mecl	nanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1		•	yes
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
······································	min	V	12
		v	· <b>-</b>



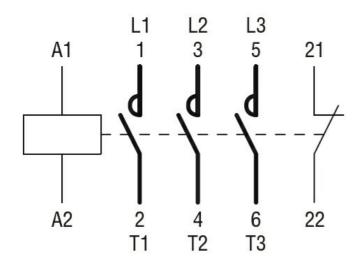
		max	V	575
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	7	0/11-	76
		min	%Us	75
	drop-out	max	%Us	115
	diop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz		,	
	pick-up			
		min	%Us	80
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz	in-rush	VA	25
		holding	VA VA	3
	of 60Hz coil powered at 60Hz	noiding	٧٨	5
		in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
DC coil operating				
DC rated control volta	ige			
		min	V	6
		max	V	480
Average coil consum	ption ≤20°C			
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency			. ,	
Mechanical operation	S		cycles/h	3600
Operating times				
Average time for Us of	in AC			
	Closing NO			
		min	ms	12
		max		21
			ms	
	Opening NO	Шах	ms	
	Opening NO	min	ms	9
	Opening NO			
	Opening NO Closing NC	min	ms	9
		min	ms	9 18 17
	Closing NC	min max	ms ms	9 18
		min max min max	ms ms	9 18 17 26
	Closing NC	min max min max min	ms ms ms ms	9 18 17 26 7
	Closing NC Opening NC	min max min max	ms ms ms ms	9 18 17 26
	Closing NC Opening NC in DC	min max min max min	ms ms ms ms	9 18 17 26 7
	Closing NC Opening NC	min max min max min	ms ms ms ms	9 18 17 26 7

11BG1201A230 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



		max	ms	25
	Opening	NO		
		min	ms	2
		max	ms	3
	Closing I	NC		
	5	min	ms	3
		max	ms	5
	Opening			
		min	ms	11
		max	ms	17
UL technical data				
	A) for three-phase AC motor			
		at 480V	А	11
		at 600V	A	11
Yielded mechanical	performance	at 000 v	7	
	for single-phase AC motor	440/4001/	<b>h n</b>	0.5
		110/120V	hp	0.5
	for three all set AQ	230V	hp	1.5
	for three-phase AC motor			0
		200/208V	hp	3
		220/230V	hp	3
		460/480V	hp	7.5
		575/600V	hp	10
	iliary contacts according to UL			A600 - Q600
General USE				
	Contactor			
		AC current	Α	20
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	60
	Storage temperature			
		min	°C	-55
		max	°C	70
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Dimensions				
4.4 (0.17") (0	57 (2.24") 05 (		(2.28") 58 (2.28") 50 (2)	57 .24")
(0.33") (0.33") (0.33") (0.33") (0.33")				RF9 
				90.2 (0.20")
8.5		44	-	(3.51")
(0.33") Wiring diagrams		(1.73")		89.2 (0.30") (3.51")





## Certifications and compliance

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ETIM 6

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 6 classification	

EC000066 - Power contactor, AC switching