



Product designation			Power contactor
Product type designation			BG12
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		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V	Α	16
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series	≤24V 48V	A A	16 16
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series			

ENERGY AND AUTOMATION

11BG1201A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT

			_
	220V	A	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	Α	-
	48V	А	_
	75V	А	_
	110V	А	_
	220V	A	_
IEC may aurrent to in DC2 DC5 with L/P < 15mg with 1 poles in agrice	220 V	Λ	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	-0.0.4		_
	≤24V	A	7
	48V	A	6
	75V	А	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	8
	48V	A	8
	48V 75V	A	5
	110V	A	4
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	2201	7.	0,0
TEC max current le in DC3-DC3 with Err 3 15ms with 4 poles in series	<241	۸	
	≤24V	A	-
	48V	A	-
	75V	А	-
	110V	Α	-
	220V	Α	-
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	A	16
Making capacity (RMS value)		A	120
		A	120
Breaking capacity at voltage			
	440V	А	96
	500V	А	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	W	4 1.44
Tichtoning to you for to you - !-	AC-3	٧V	1.44
Tightening torque for terminals		• ·	
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
5 ··· · · · · · · · · · · · · · · · · ·	min	Nm	0.8
		Nm	
	max		1
	min	Ibin	9



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT

11BG1201A230

Max number of wires	simultaneously connectable	max	Ibin Nr.	9
Conductor section			INI.	۷
	AWG/Kcmil			
	AWG/RCIIII	max		12
	Flexible w/o lug conductor section	max		12
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max		2.0
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max		2.0
	The sole with insulated space by conductor section	min	mm²	1.5
		max	mm²	2.5
		max		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
oporating pooliton		normal		Vertical plan
		allowable		±30°
		anomabio		Screw / DIN rai
Fixing				35mm
Weight			g	183
Conductor section			0	
	AWG/kcmil conductor section			
				40
		max		12
Auxiliary contact char	acteristics	max		12
Auxiliary contact char Thermal current Ith	acteristics	max	A	12
Thermal current Ith		max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation	max	A	
Thermal current Ith	esignation			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A	10 A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation :15	230V	A	10 A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation :15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V 400V 500V 110V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V	A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	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
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A 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 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	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
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 212 213	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A 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 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A 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 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 12 13 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A 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 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	esignation 15 12 13 10d according to EN/ISO 13489-1 med	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A 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
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	esignation 15 12 13 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A 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

11BG1201A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT

Rated AC voltage at 5	50/60Hz			V	230
AC operating voltage					
	of 50/60Hz coil	powered at 50Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out		0/11-	00
			min	%Us	20
			max	%Us	55
		powered at 60Hz			
		pick-up	min	%Us	80
				%Us %Us	115
		drop out	max	%05	115
		drop-out	min	%Us	20
			max	%Us %Us	20 55
AC average coil consi	umption at 20°C		Παλ	/003	55
average coll colls	•	powered at 50Hz			
		powered at JULIZ	in-rush	VA	30
			holding	VA VA	4
	of 50/60Hz coil	powered at 60Hz	noiuiig	٧A	T
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	vered at 60Hz	noiding		0
	01 001 12 0011 p01		in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
zieeipaaren at neranig					0.00
Max cycles frequency					
					3600
Mechanical operation				cycles/h	3600
Mechanical operation Operating times					3600
Mechanical operation Operating times					3600
Mechanical operation Operating times	ontrol	Closing NO			3600
Mechanical operation Operating times	ontrol	Closing NO	min		12
Mechanical operation Operating times	ontrol		min max	cycles/h	
Mechanical operation Operating times	ontrol	Closing NO Opening NO	max	cycles/h ms	12 21
Mechanical operation Operating times	ontrol		max	cycles/h ms ms ms	12 21 9
Mechanical operation Operating times	ontrol	Opening NO	max	cycles/h ms ms	12 21
Mechanical operation Operating times	ontrol		max min max	cycles/h ms ms ms ms	12 21 9 18
Mechanical operation Operating times	ontrol	Opening NO	max min max min	cycles/h ms ms ms ms	12 21 9 18 17
Mechanical operation Operating times	ontrol	Opening NO Closing NC	max min max	cycles/h ms ms ms ms	12 21 9 18
Mechanical operation Operating times	ontrol	Opening NO	max min max min max	cycles/h ms ms ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	ontrol	Opening NO Closing NC	max min max min max min	cycles/h ms ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC	max min max min max	cycles/h ms ms ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	ontrol	Opening NO Closing NC Opening NC	max min max min max min	cycles/h ms ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18 25
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18 25
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18 25 2 3
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2

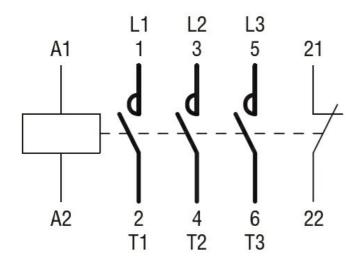
11BG1201A230 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



11BG1201A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT

	Opening N	IC		
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	А	11
		at 600V	Α	11
Yielded mechanical pe	rformance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE	Contactor			
	Contactor	AC current	А	20
Short-circuit protection	fuse 600V	AC current	A	20
Short-circuit protection	High fault			
	lightaut	Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class	А	J
	Standard fault			0
		Short circuit current	kA	5
		Fuse rating	A	30
		Fuse class		RK5
Contact rating of auxilia	ary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protectio	n			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	34.9 (1.37")	44 (1.73") ((2.28")	57 24") RF9 7.6 89.2 (3.51")





Certifications and compliance

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