



Product designation			Auxiliary 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			•
operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Παλ	A	20
Operational current le		A	20
	AC 1 (<10°C)	۸	20
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	12
	AC-4 (400V)	A	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 $L/R \le 1$ ms with 1 poles in series			
·	≤24V	А	12
	48V	А	10
	75V	A	4
	110V	A	3
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	A	14
	48V 75V	A	9
	110V	A	8
	220V	A	
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series	2200	A	_
In the second sector with $L/R \ge 1$ ms with 3 poies in series	2011	۸	4.0
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10



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		_	-	
	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	А	_	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series				
	≤24V	А	7	
	48V	A	6	
	75V	A	2	
	110V	A	1	
	220V	A	_	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2201	Α		<u> </u>
TEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series	≤24V	^	0	
		A	8	
	48V	A	8	
	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	А	0,8	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				<u> </u>
	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	A	_	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)		A	96	<u> </u>
Protection fuse			00	
		۸	20	
	gG (IEC)	A	20	
	aM (IEC)	<u>A</u>	16	
Making capacity (RMS value)		Α	120	
Breaking capacity at voltage	_	-	• -	
	440V	A	96	
	500V	Α	72	
	690V	A	72	
Resistance per pole (average value)		mΩ	10	
Power dissipation per pole (average value)				
	lth	W	4	
	AC-3	W	1.4	
Tightening torque for terminals				<u> </u>
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	9	
	max	Ibin	9	
Tightening torque for coil terminal	THOM:		-	
	min	Nm	0.8	
		Nm	0.8 1	
	max			
	min	Ibin	9	



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Mox number of other		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			40
		max		12
	Flexible w/o lug conductor section			0.0
		min	mm²	0.8
		max	mm²	2.5
	Flexible c/w lug conductor section		2	
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
				35mm
Weight			g	200
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	2.9
Operating current DC	13			
1 0		24V	А	2.9
		48V	А	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	A	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			0,000	
	0d according to EN/ISO 13489-1			
	00 0000000 10 EN/100 10-00-1	rated load	cycles	500000
	_	nechanical load	•	2000000
Mirror contate accest			cycles	
	ing to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating				10.0
Rated AC voltage at 5	0/60Hz		V	400

11BG1210A400 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



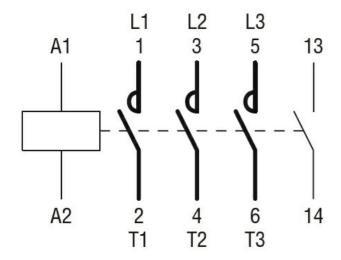
AC operating voltage					
	of 50/60Hz coil powered	l at 50Hz			
		pick-up			
			mi	n %Us	75
			ma	x %Us	115
		drop-out			
			mi	n %Us	20
			ma	x %Us	55
	of 50/60Hz coil powered	l at 60Hz			
		pick-up			
			mi	n %Us	80
			ma	x %Us	115
		drop-out			
			mi		20
			ma	x %Us	55
AC average coil consu					
	of 50/60Hz coil powered	l at 50Hz			
			in-rus		30
			holding	g VA	4
	of 50/60Hz coil powered	l at 60Hz			
			in-rus		25
			holding	g VA	3
	of 60Hz coil powered at	60Hz			
			in-rus		30
			holding	-	4
Dissipation at holding ≤	20°C 50Hz			W	0.9
Max cycles frequency					
Mechanical operation				cycles/h	3600
Mechanical operation Operating times				cycles/h	3600
Mechanical operation				cycles/h	3600
Mechanical operation Operating times	in AC			cycles/h	3600
Mechanical operation Operating times	in AC	Closing NO			
Mechanical operation Operating times	in AC	Closing NO	mi	n ms	12
Mechanical operation Operating times	in AC	-	mi ma	n ms	
Mechanical operation Operating times	in AC	Closing NO Opening NO	ma	n ms x ms	12 21
Mechanical operation Operating times	in AC	-	ma	n ms x ms n ms	12 21 9
Mechanical operation Operating times	in AC	Opening NO	ma	n ms x ms n ms	12 21
Mechanical operation Operating times	in AC	-	ma mi ma	n ms x ms n ms x ms	12 21 9 18
Mechanical operation Operating times	in AC	Opening NO	ma mi ma mi	n ms x ms n ms x ms n ms	12 21 9 18 17
Mechanical operation Operating times	in AC	Opening NO Closing NC	ma mi ma	n ms x ms n ms x ms n ms	12 21 9 18
Mechanical operation Operating times	in AC	Opening NO	ma mii ma mi ma	n ms x ms n ms x ms n ms x ms	12 21 9 18 17 26
Mechanical operation Operating times	in AC	Opening NO Closing NC	ma mi ma mi ma mi	n ms x ms n ms x ms n ms x ms n ms	12 21 9 18 17 26 7
Mechanical operation Operating times	in AC	Opening NO Closing NC	ma mii ma mi ma	n ms x ms n ms x ms n ms x ms n ms	12 21 9 18 17 26
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC	ma mi ma mi ma mi	n ms x ms n ms x ms n ms x ms n ms	12 21 9 18 17 26 7
Mechanical operation Operating times	in AC	Opening NO Closing NC	ma mi ma mi ma mi	n ms x ms n ms x ms n ms x ms n ms x ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC	ma mi ma mi ma mi ma mi	n ms x ms n ms x ms n ms x ms x ms n ms	12 21 9 18 17 26 7 17 18
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	ma mi ma mi ma mi	n ms x ms n ms x ms n ms x ms x ms n ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC	ma mi ma mi ma mi ma mi ma	n ms x ms n ms x ms x ms x ms x ms x ms	12 21 9 18 17 26 7 17 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	ma mi ma mi ma mi ma mi ma mi	n ms x ms n ms x ms n ms x ms x ms n ms x ms	12 21 9 18 17 26 7 17 17 18 25 2
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	ma mi ma mi ma mi ma mi ma	n ms x ms n ms x ms n ms x ms x ms n ms x ms	12 21 9 18 17 26 7 17 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	ma mi ma mi ma mi ma mi ma mi ma	n ms x ms n ms x ms x ms x ms x ms x ms x ms	12 21 9 18 17 26 7 17 17 18 25 2 3
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	ma mi ma mi ma mi ma mi ma mi ma mi	n ms x ms n ms x ms n ms x ms x ms x ms x ms x ms x ms	12 21 9 18 17 26 7 17 17 18 25 2 3 3
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	ma mi ma mi ma mi ma mi ma mi ma	n ms x ms n ms x ms n ms x ms x ms x ms x ms x ms x ms	12 21 9 18 17 26 7 17 17 18 25 2 3



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		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FL	A) for three-phase AC motor			
,	<i>,</i>	at 480V	А	11
		at 600V	А	11
Yielded mechanical	performance			
	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		0.0,000		
	Contactor			
		AC current	А	20
Short-circuit protect	ion fuse 600V			
	High fault			
	riigiriadit	Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class	А	J
	Standard fault			0
	Standard radit	Short circuit current	kA	5
		Fuse rating	A	30
		Fuse class	~	RK5
Contact rating of au	xiliary contacts according to UL			A600 - Q600
Ambient conditions				A000 - Q000
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-50
			°C	+70
	Storage temperature	max	0	τιυ
	Sidiage lemperature	min	°C	-60
			°C	-60 +80
Max altitude		max		3000
Resistance & Prote	ction		m	3000
Pollution degree				3
Dimensions				J
4.4 (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.13") (0.13") (0.13") (0.38") (0.38") (0.38")			(2.28") 5	57 24") RF9 RF9
8.5 (0.33")		(1.73")	-	89.2 - 7.6 (0.30") (3.51")
Wiring diagrams		(





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