



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			
	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)	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)	7.0 + (+007)	~	r. U
	230V	kW	3.2
	400V	kW	5.7
	400V 415V	kW	6.2
	413V 440V	kW	5.5
	440V 500V	kW	5
	690V	kW	5
Deted energtional newer AC 1 (T<10°C)	090 V	ĸvv	5
Rated operational power AC-1 (T≤40°C)	2201/	LAA7	0
	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	А	4
	110V	А	3
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms 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 $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10

11BG1210D060 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



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 60VDC, 1NO AUXILIARY CONTACT

220V A 2	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	
≤24V A –	
48V A –	
75V A –	
110V A –	
220V A –	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	
≤24V A 7	
48V A 6	
75V A 2	
110V A 1	
220V A –	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	
≤24V A 8	
48V A 8	
75V A 5	
110V A 4	
220V A –	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	
≤24V A 10	
48V A 10	
75V A 6	
110V A 5	
220V A 0,8	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	
≤24V A –	
48V A –	
75V A –	
110V A –	
220V A –	
Short-time allowable current for 10s (IEC/EN60947-1) A 96	
Protection fuse	
gG (IEC) A 20	
aM (IEC) A 16	
Making capacity (RMS value) A 120	
Breaking capacity at voltage	
440V A 96	
500V A 72	
690V A 72	

	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	1.4
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9

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Max number of wires		max	Ibin Nr.	9 2
	simultaneously connectable		INF.	2
Conductor section	AWG/Kcmil			
	AWG/Renill	max		12
	Flexible w/o lug conductor section	IIIdA		12
		min	mm²	0.8
		max	mm²	2.5
	Flexible c/w lug conductor section			
	Ŭ	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	n		
		min	mm²	1.5
		max	mm²	2.5
	tion according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	200
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			1.0
Thermal current Ith	-1		А	10
IEC/EN 60947-5-1 de				Q600
Operating current AC	15	0001/	۸	0
		230V 400V	A A	3 1.9
		400V 500V	A	1.9
Operating current DC ²	12	5007	~	1.4
Operating current DC	12	110V	А	2.9
Operating current DC ²	13	1100	~	2.5
	10	24V	А	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	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 B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				YES
DC coil operating				0.0
DC rated control volta	ge		V	60



ENERGY AND AUTOMATION

DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consump	otion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency			Ť		
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		č	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC	max	inio	10
			min	ms	17
			max	ms	26
		Opening NC	max	1113	20
		Opening NO	min	ms	7
			max	ms	17
	in DC		IIIdX	1115	17
	III DC				
		Closing NO			4.0
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			_
			min	ms	3
		_	max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)) for three-phase A	AC motor			
			at 480V	А	11
			at 600V	Α	11
Yielded mechanical pe					
	for single-phase	AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor			
			200/208V	HP	3
			200/2080		0
				HP	
			200/208V 220/230V 460/480V		3 7.5

General USE



11BG1210D060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 60VDC,

1NO AUXILIARY CONTACT

	Contactor			
		AC current	Α	20
Short-circuit protection				
	High fault			400
		Short circuit current	kA	100
		Fuse rating Fuse class	A	30
	Standard fault	Fuse class		J
	Standard Tadit	Short circuit current	kA	5
		Fuse rating	A	30
		Fuse class		RK5
Contact rating of aux	iliary 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 & Protect	tion			
Pollution degree Dimensions				3
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")	C C C C C C C C C C C C C C C C C C C		28") 5	57 24") RF9
A1	L1 L2 L3 1 3 5 13 d d d d d d d d d d d d d d d d d d d			
	CSA C22.2 n° 60947-4-1			
	USA UZZ.Z 11 00947-4-1			



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	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