

Product designation Power contactor Product type designation **BG12** Contact characteristics 3 Nr. Number of poles Rated insulation voltage Ui IEC/EN V 690 k٧ Rated impulse withstand voltage Uimp 6 **Operational frequency** min Hz 25 Hz 400 max IEC Conventional free air thermal current Ith 20 A Operational current le AC-1 (≤40°C) А 20 AC-1 (≤55°C) А 0 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 9 А 110V А 8 220V А _

IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series



IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	_
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 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 ≤ 15ms with 2 poles in series	220 V		
The max current le in DC3-DC3 with E/IC 3 Toms with 2 poles in series	≤24V	۸	0
	≤24V 48V	A	8
		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 \leq 15ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	_
	220V	А	_
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		۸	00
	440V	A	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal	max		-
	min	Nm	0.8
	max	Nm	1
		lbin	
	min		9
	max	lbin	9



	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		_	
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			4 5
		min	mm² mm²	1.5 2.5
	Flexible with insulated spade lug conductor s	max	11111	2.5
	Flexible with insulated space by conductor s	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529	Пах		IP20 when wire
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
Fixing				35mm
Weight			g	179
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15	0001/		•
		230V	A	3
		400V	A	1.9
	10	500V	A	1.4
Operating current DC	12	110V	٨	2.0
Operating ourrest DC	12	1100	A	2.9
Operating current DC	15	24V	А	2.9
		24 v 48 V	A	1.4
		48V 60V	A	1.4
		110V	A	0.6
		125V		0.55
		220V	A	
			A	0.3
Operations		600V	A	0.1
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			cycles	300000
	0d according to EN/ISO 13489-1			
	ou according to EN/100 10408-1	rated load	cycles	500000
		mechanical load	cycles	2000000
Mirror contate accordi	ing to IEC/EN 609474-4-1		0,0003	
EMC compatibility	ing to IEO/EN 0034/4-4-1			yes
AC coil operating				yes
Rated AC voltage at 5	50/60Hz		V	110
			V	110

AC operating voltage

11BG1210A110

Three-pole contactor, IEC operating current le (AC3) = 12A, AC coil 50/60Hz, 110VAC, 1NO auxiliary contact



of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	75
	max	%Us	115
drop-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 average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			20
	in-rush	VA	30
(50/0011	holding	VA	4
of 50/60Hz coil powered at 60Hz		1/4	25
	in-rush	VA	25
	holding	VA	3
of 60Hz coil powered at 60Hz		\ /A	20
	in-rush	VA	30
Dissingtion at holding <20°C FOLT	holding	VA W	4
Dissipation at holding ≤20°C 50Hz		VV	0.95
Max cycles frequency Mechanical operation			2600
		cycles/h	3000
Operating times		cycles/n	5000
Operating times Average time for Us control		cycles/n	3000
Operating times Average time for Us control in AC		cycles/n	3000
Operating times Average time for Us control	min		
Operating times Average time for Us control in AC	min max	ms	12
Operating times Average time for Us control in AC Closing NO	min max		
Operating times Average time for Us control in AC	max	ms ms	12 21
Operating times Average time for Us control in AC Closing NO	max min	ms ms ms	12 21 9
Operating times Average time for Us control in AC Closing NO Opening NO	max	ms ms	12 21
Operating times Average time for Us control in AC Closing NO	max min max	ms ms ms ms	12 21 9
Operating times Average time for Us control in AC Closing NO Opening NO	max min	ms ms ms	12 21 9 18 17
Operating times Average time for Us control in AC Closing NO Opening NO	max min max min	ms ms ms ms ms	12 21 9 18
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC	max min max min	ms ms ms ms ms	12 21 9 18 17
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC	max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO	max min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3 3
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO Closing NC Opening NC Closing NO Closing NO Closing NO Closing NO Closing NO Opening NO Opening NO Closing NO Opening NO Opening NO Opening NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3
Operating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO	max min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3 3

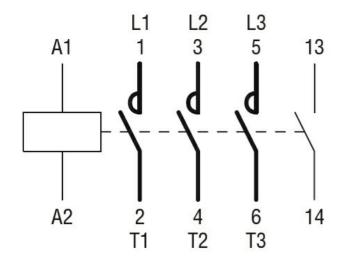
11BG1210A110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



11BG1210A110 Three-pole contactor, IEC operating current le (AC3) = 12A, AC coil 50/60Hz, 110VAC, 1NO auxiliary contact

			m 0	17
UL technical data		max	ms	17
	A) for three-phase AC motor			
	A) IOI IIIIee-pilase AC IIIOIOI	at 480V	۸	11
		at 460V at 600V	A A	11
Violded mechanical	norformanaa	at 000 v	A	11
Yielded mechanical	•			
	for single-phase AC motor	440/4201/		0.5
		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			
		AC current	Α	20
Short-circuit protecti	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
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	°Č	+80
Max altitude			 	3000
Resistance & Protect	tion			
Pollution degree	Xion			3
Dimensions				Ű
		× 0		
4.4 (0.17") ((2.28") 5	57 24") RF9
8.5 (0.33")		(1.72")		89.2
Wiring diagrams		(1.73")		(3.31.)





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