



11BG1201A110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT



Product designation Power contactor Product type designation **BG12** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 12 AC-4 (400V) 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 Α 12 48V Α 10 75V Α 4 110V 3 Α 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10





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	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		
120 max canonic to in 200 200 mai 2/10 = 10mb mai 1 poloc in conce	≤24V	Α	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	^	
TEC max current le in DC3-DC3 with L/R \(\) 13ms with 2 poles in series	~24) /	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	Α	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		_	
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	16
Making capacity (RMS value)	, ,	Α	120
Breaking capacity at voltage			-
	440V	Α	96
	500V	A	72
	690V	Α	72
Resistance per pole (average value)	0001	mΩ	10
Power dissipation per pole (average value)		11122	10
i owei dissipation per pole (average value)	Ith	W	4
Tightoning targue for terminals	AC-3	W	1.44
Tightening torque for terminals		N 1 .	0.0
	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	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	AMO #4			
	AWG/Kcmil			40
	Flavible w/s lug conductor continu	max		12
	Flexible w/o lug conductor section	min	mama ²	0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.0
	r lexible of windy conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.0
	Trexible with insulated space rag solidation section	min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	•			A600 - Q600
Operating current AC	15			
		230V	A	3
			Α	1.9
		400V		
0	40	500V	Α	1.4
Operating current DC	12	500V	Α	1.4
Operating current DC Operating current DC		500V 110V	A A	2.9
		500V 110V 24V	A A	1.4 2.9 2.9
		500V 110V 24V 48V	A A A	1.4 2.9 2.9 1.4
		500V 110V 24V 48V 60V	A A A A	1.4 2.9 2.9 1.4 1.2
		500V 110V 24V 48V 60V 110V	A A A A A	1.4 2.9 2.9 1.4 1.2 0.6
		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	13	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





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Rated AC voltage at				V	110
C operating voltage		=0.1			
	of 50/60Hz coil po				
		pick-up	min	%Us	75
			max	%Us	75 115
		drop-out	max	7000	110
		20.2p	min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	owered at 60Hz			
		pick-up			
			min	%Us	80
		_	max	%Us	115
		drop-out		0/11	
			min	%Us	20 55
C average soil con	aumntion at 20°C		max	%Us	55
C average coil con	of 50/60Hz coil po	owered at 50Hz			
	οι συνουί τε σοπ ρο	JWOIGU AL JUI IZ	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz	9		
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holdin				W	0.95
Max cycles frequenc					0000
Mechanical operatio	n			cycles/h	3600
Operating times					
worden time for Lie	control				
Average time for Us					
verage time for Us	control in AC	Closing NO			
verage time for Us		Closing NO	min	ms	12
verage time for Us		Closing NO	min max	ms ms	12 21
verage time for Us		Closing NO Opening NO	min max	ms ms	12 21
verage time for Us					
verage time for Us		Opening NO	max	ms	21
verage time for Us			max min max	ms ms ms	21918
verage time for Us		Opening NO	max min max min	ms ms ms	2191817
Average time for Us		Opening NO Closing NC	max min max	ms ms ms	21918
Average time for Us		Opening NO	max min max min max	ms ms ms ms	219181726
verage time for Us		Opening NO Closing NC	max min max min max min	ms ms ms ms	2191817267
verage time for Us	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	219181726
Average time for Us		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	2191817267
Average time for Us	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17
Average time for Us	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17



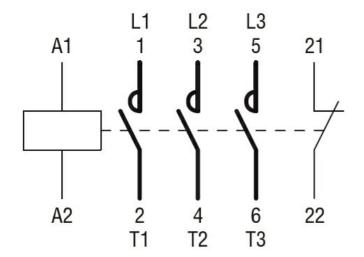
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Opening NC

	Opening in	•		
		min	ms	11
		max	ms	17
UL technical data				• •
) for the sound see A O most on			
Full-load current (FLA) for three-phase AC motor			
		at 480V	Α	11
		at 600V	Α	11
Yielded mechanical pe	erformance			
,	for single-phase AC motor			
	ioi sirigle-priase AC motor	440/400\/	LID	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
0		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	n fuse, 600V			
	High fault			
	i ligit tault	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
Contact rating of auxilia	iary contacts according to UL	1 400 01400		A600 - Q600
	iary contacts according to OL			A000 - Q000
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	Clorage temperature	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17")	(2.24")	(1.73")	(2.	57 24")
	(1.97") (1.97") (2.28") Se	(3.71") (3.71") (4.60	(2.28")	
8.5 (0.33") (0.38") (0.38")	- 34.9 - (1.37")	3.2 (0.12") (0.12"		RF9 -7.6 89.2 -7.6 (3.51") (0.30")
8.5 (0.33")		(1.73")	-	89.2 (0.30") (3.51")
Wiring diagrams		(1110)		Variable N
Trining diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT



Certifications and 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