



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		A	20
Operational current le			
	AC-1 (=40°C)	А	20
	AC-1 (=55°C)	А	0
	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)	0001/	/	0
	230V	kW	8
	400V	kW	14
	500V	kW	16
IFC may aureant la in DC4 with L/D dres with 4 nates in parise	690V	kW	22
IEC max current le in DC1 with L/R = 1ms with 1 poles in series	241/	۸	40
	=24V	A	12
	48V 75V	A A	10
	75V 110V	A	4 3
	220V	A	5
IEC max current le in DC1 with L/R = 1ms with 2 poles in series	220 V	~	_
$EC \max Current le m DCT \min L/R = \min S \min Z poles in series$	=24V	А	15
	=24V 48V	A	14
	48V 75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R = 1ms with 3 poles in series	2201	Λ	
	=24V	А	16
	=24 V 48 V	A	16
	48V 75V	A	10
	110V	A	10
	220V	A	2
	220 V		<u>~</u>



11BG1201A12060 THREE-POLE CONTACTOR, IEC OPERAT

ING CURRENT IE (AC3) = 12A, AC COIL 60HZ,	
120VAC, 1NC AUXILIARY CONTACT	

IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	=24V	А	_
	48V	Α	_
	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	А	6
	75V	А	2
	110V	А	1
	220V	А	_
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	5 4
	220V	A	4
IEC more ourront to in DC2 DC5 with 1/D 45mg with 2 palas in assist	2201	А	_
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series	0.01/	•	4.0
	=24V	A	10
	48V	A	10
	75V	А	6
	110V	А	5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R = 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)	А	16
Making capacity (RMS value)		А	120
Breaking capacity at voltage			
	440V	А	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)	0001	m?	10
Power dissipation per pole (average value)			10
Power dissipation per pole (average value)	lth	14/	4
	lth	W	4
Tishtesian terme for terminals	AC3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9



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	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
	Elevible w/e lug conductor costion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
	5	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	I		
		min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP20 when wire
Mechanical features				
Operating position				Vartical plan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rai
Fixing				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	•			A600 - Q600
Operating current AC	15	230V	^	2
		230V 400V	A A	3 1.9
		400V 500V	A	1.4
Operating current DC	12	0001	7.	
opolating outlotte 20		110V	А	2.9
Operating current DC	13			
		24V	А	2.9
		48V	А	1.4
		60V	А	1.2
		110V	А	0.6
		125V	А	0.55
		220V	A	0.3
Oporationa		600V	A	0.1
Operations Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
	n	nechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
				yes
EMC compatibility				,
EMC compatibility AC coil operating				,

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of 60Hz coil powered at 60Hz

		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
				%Us	55
10	1. 1.00%0		max	/005	55
AC average coil con					
	of 50/60Hz coi	l powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coi	l powered at 60Hz			
			in-rush	VA	25
					3
	(0011 - 11		holding	VA	3
	of 60Hz coll pc	owered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holdin	g =20°C 50Hz			W	0.95
Max cycles frequenc	•				
Mechanical operation				cycles/h	3600
				090185/11	3000
Operating times					
Average time for Us					
	in AC				
		Closing NO			
		2	min	ms	12
			max	ms	21
		Opening NO	max	115	<u>-</u> '
		Opening NO			0
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			
		opening No	min		7
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO	max		
				m a	2
			min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
				ma	11
			min	ms	11
			max	ms	17
JL technical data					
	A) for three-phase	AC motor			
Full-load current (FL	,		at 480V	А	11
Full-load current (FL					
Full-load current (FL					
	<i>.</i>		at 600V	A	11
Full-load current (FL	performance for single-phas				

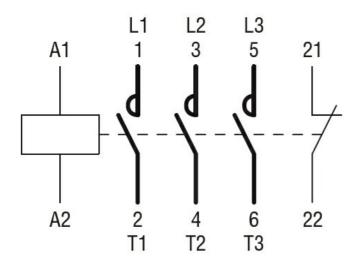


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	110/120V	HP	0.5
	230V	HP	1.5
for three-phase AC motor			
	200/208V	HP	3
	220/230V	HP	3
	460/480V	HP	7.5
	575/600V	HP	10
General USE			
Contactor			
	AC current	A	20
Short-circuit protection fuse, 600V			
High fault			
-	Short circuit current	kA	100
	Fuse rating	А	30
	Fuse class		J
Standard fault			•
Otandard radit	Short circuit current	kA	5
	Fuse rating	A	30
Contact rating of auxiliary 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 & Protection			0000
Pollution degree			3
			3
Dimensions			
$\begin{array}{c} 4.4 \\ (0.17") \\ (0.17") \\ (0.17") \\ (0.17") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.38") \\ (1.37") \\ (0.38") \\ (1.37") \\ (1.37") \\ (0.38") \\ (1.37") \\ (1.37") \\ (0.38") \\ (0.38") \\ (0.$		58 (2.28") 50 (2)	57 24") RF9
8.5 (0.33")	44	-	

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