





Product designation			Power contactor
Product type designation Contact characteristics			BG12
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ΚV	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	20
Operational current le			
oporational current to	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)	Α	4.8
Rated operational power AC-3 (T≤55°C)	710 4 (4007)		4.0
rated operational power 700 o (1=00 o)	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)			
1 - (/	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	Α	3
	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	Α	10





	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 canoncio in 200 200 mai 2/10 = 10mb mai i poloci in conco	≤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



nax min nax min	mn mn	n² n²	12 0.75 2.5
min nax	mn mn	n²	0.75
min nax	mn mn	n²	0.75
min nax	mn mn	n²	0.75
nax	mn	n²	
nax	mn	n²	
			2.5
min	mn	n²	
nın	mn	n∸	4.5
			1.5
nax	mn	11-	2.5
min	mn	m ²	1.5
min	mn		2.5
nax	11111	11	IP20 when
			properly wired
			proporty willou
nal			Vertical plan
ble			±30°
			Screw / DIN rail
			35mm
	g	ı	220
nax			12
	Α	١	10
			A600 - Q600
0V	۸		
	А	١	3
0V			1.9
	Α	`	
0V 0V	A A	١	1.9 1.4
0V	A A	١	1.9
0V 0V 0V	A A	\ \ \	1.9 1.4 2.9
0V 0V 0V 4V	A A A	\ \ \	1.9 1.4 2.9 2.9
0V 0V 0V 4V 8V	A A A	\ \ \	1.9 1.4 2.9 2.9 1.4
0V 0V 0V 4V 8V 0V	A A A A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.9 1.4 2.9 2.9 1.4 1.2
0V 0V 0V 4V 8V 0V 0V	A A A A A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.9 1.4 2.9 2.9 1.4 1.2 0.6
0V 0V 0V 4V 8V 0V 0V 5V	A A A A A A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
0V 0V 0V 4V 8V 0V 0V 5V 0V	A A A A A A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
0V 0V 0V 4V 8V 0V 0V 5V	A A A A A A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
0V 0V 4V 8V 0V 0V 5V 0V	A A A A A A A		1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
0V 0V 0V 4V 8V 0V 0V 5V 0V 0V	A A A A A A A Cycl	N. N	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
0V 0V 0V 4V 8V 0V 0V 5V 0V 0V	A A A A A A A Cycl	N. N	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
0V 0V 0V 4V 8V 0V 0V 5V 0V 0V	A A A A A A A Cycl	N. N	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
0V 0V 4V 8V 0V 0V 5V 0V	A A A A A Cycl	A A A A A A A A A A A A A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
0V 0V 4V 8V 0V 0V 5V 0V	A A A A A Cycl	les les	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
0V 0V 4V 8V 0V 0V 5V 0V	A A A A A Cycl	les les	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
0V 0V 4V 8V 0V 0V 5V 0V	A A A A A Cycl	les les	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
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DC rated control voltag	ie			V	220
DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out			0/11	4.0
			min	%Us	10 25
Average coil consumpt	ion <20°C		max	%Us	25
Average con consumpt	1011 =20 0		in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			40
			min	ms	12
		Opening NO	max	ms	21
		Opening NO	min	ms	9
			max	ms	18
		Closing NC			. •
		J	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC	Olasia a NO			
		Closing NO	min	me	18
			max	ms ms	25
		Opening NO	max	1113	20
		opolinig 110	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
		_	max	ms	5
		Opening NC	_		4.4
			min	ms	11
III tochnical data			max	ms	17
UL technical data Full-load current (FLA)	for three-phase AC me	otor			
i uii-ioau cuitetii (FLA)	ioi unee-phase AO III	Otol	at 480V	Α	11
			at 600V	A	11
Yielded mechanical per	rformance		2. 0001		
	for single-phase AC	motor			
	J ,		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC n	notor			
			200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	7.5
			575/600V	HP	10

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT**

General USE				
	Contactor			
		AC current	Α	20
Short-circuit protect	ction fuse, 600V			
'	High fault			
	g	Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class	,,	J
	Standard fault	i use class		<u> </u>
	Standard fault	Ob ant allowed a commont	Ι. Λ	_
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	Ctorago tomporataro	min	°C	-60
		max	°C	+80
Max altitude		max	m	3000
Resistance & Prot	raction		111	3000
	ection			3
Pollution degree				3
Dimensions				
4.4- (0.17")	4.4.7") (2.24") (2.24") (3.7") (1.37")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	89.2 (3.51")

A1 21 A2 22 T1 T2 **T3**

Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



ENERGY AND AUTOMATION

11BG1201D220

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT**

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