

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC, 1NO AUXILIARY CONTACT



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		Α	20
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)	Α	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	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
		- •	





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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 carrone to in 200 200 mar 2/10 = 10 mo mar 1 poloco 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-DC5 with L/R \(\) 15ms with 2 poles in series	<04)/	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	Α	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	A	72
Pasiatanas par pala (avaraga valua)	090 V	mΩ	10
Resistance per pole (average value)		11177	10
Power dissipation per pole (average value)	141	147	4
	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	lbin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.8
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP20
Mechanical features				
Operating position				Mantia - L. I
		normal		Vertical plan ±30°
		allowable		
Fixing				Screw / DIN rail 35mm
Weight			g	200
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			Q600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	:12			
		110V	Α	2.9
Operating current DC	:13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Mechanical life			cycles	20000000
Mechanical life Electrical life			cycles cycles	20000000 500000
Mechanical life Electrical life Safety related data				
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1		cycles	500000
Mechanical life Electrical life Safety related data	•	rated load	cycles	500000
Mechanical life Electrical life Safety related data Performance level B	-	rated load mechanical load	cycles	500000 500000 20000000
Mechanical life Electrical life Safety related data Performance level B	•		cycles	500000 500000 20000000 YES
Mirror contats accord	-		cycles	500000 500000 20000000
Mechanical life Electrical life Safety related data Performance level B	ling to IEC/EN 609474-4-1		cycles	500000 500000 20000000 YES



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DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			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			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
		OL : NO	max	ms	3
		Closing NC			•
			min	ms	3
		On anima NO	max	ms	5
		Opening NC			11
			min	ms	11
JL technical data			max	ms	17
	for three phase	AC motor			
Full-load current (FLA)	nor unee-phase i	AO MOIOI	ot 400\/	۸	11
			at 480V	A	11
Violded machanical as	orformana		at 600V	A	11
Yielded mechanical pe		ο ΛC motor			
	for single-phase	E AC MOIOI	110/120V	ПD	0.5
			110/120V 230V	HP HP	0.5
	for three share	AC motor	23UV	пР	1.5
	for three-phase	AC IIIOIOI	200/2001	ПD	2
			200/208V 220/230V	HP HP	3
			220/230V 460/480V	HP HP	3 7.5
			575/600V	HP	7.5 10
			373/0000	1.115	10



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	Contactor			
		AC current	Α	20
Short-circuit protecti				
	High fault	<u></u>		
		Short circuit current	kA	100
		Fuse rating Fuse class	Α	30
	Standard fault	Fuse class		J
	Standard fault	Short circuit current	kA	5
		Fuse rating	A	30
		Fuse class	, ,	RK5
Contact rating of aux	kiliary contacts according to UL			A600 - Q600
Ambient conditions	,			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
B.A. 1626 1		max	°C	+80
Max altitude Resistance & Proteo	ction		m	3000
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.17") (0.38") (0.33") (0.33") Wiring diagrams	(2.24") (2.28") (3.28") (3.28") (4.19) (4.19) (4.19) (5.19) (6.19) (6.19) (6.19) (7.19	(1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	8F9 7.6 (0.30")
A1	L1 L2 L3 1 3 5 13			

Certifications and compliance

Compliance

A2

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



ENERGY AND AUTOMATION

11BG1210D220

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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