



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, **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	A	_
	75V	A	_
	110V	A	_
			_
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	7
	48V	Α	6
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
The max sarront to in 200 200 with 210 = 10mb with 2 polos in conto	≤24V	Α	8
	48V	A	
			8
	75V	Α	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	A	0,8
IEC may current to in DC2 DC5 with L/D < 15mg with 4 poles in corios	220 V		0,0
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2041 /	^	
	≤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)	aw (ILO)	A	120
			120
Breaking capacity at voltage		_	
	440V	Α	96
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
, , , , , , , , , , , , , , , , , , , ,	Ith	W	4
	AC-3	W	1.4
Tightening torque for terminals	,,,,,	• • •	•••
rightoning torque for terminals	:-	Nima	0.0
	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	Ibin	9
			-





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AWG/Kcmil max			max	Ibin	9
AWG/Kcmil	Max number of wires	simultaneously connectable		Nr.	2
Plexible w/o lug conductor section	Conductor section				
Flexible w/o lug conductor section		AWG/Kcmil			
Please P			max		12
Parable c/w lug conductor section		Flexible w/o lug conductor section			
Flexible c/w lug conductor section			min		
Minimax Mini			max	mm²	2.5
Please P		Flexible c/w lug conductor section		2	
Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 mm² 2.					
Min		Classible with insulated and deliver acadustos acetion		mm-	2.5
Propertial protection according to IEC/EN 60529 IP20		Flexible with insulated spade lug conductor section		mm²	1.5
Page Provided Pr					
Acchanical features Superating position Inormal allowable #30° Screw / DIN rai 35mm DIN rai 35mm Screw / DIN rai 35mm DIN rai 35mm Screw / DIN rai 35mm	Power terminal protec	tion according to IEC/EN 60529	Παλ	111111	
Departing position		tion according to IEO/EN 00323			11 20
Normal allowable Series Page					
Screw DIN rai DIN	- F 2. 218 P 20111011		normal		Vertical plan
Screw / DIN rai 35mm 35m					•
Name	Civin a		20 2 2 200		Screw / DIN rail
AWG/kcmil conductor section	Fixing				35mm
AWG/kcmil conductor section max	Weight			g	200
Max 12 Max 12 Max 12 Max M	Conductor section				
Availlary contact characteristics Thermal current Ith		AWG/kcmil conductor section			
Thermal current Ith			max		12
Comparison Com		acteristics			
Comparison Com				Α	
230V A 3 400V A 1.9 500V A 1.4		-			Q600
A	Operating current AC1	15		_	_
Solv A 1.4 1.4 1.4 1.4 1.5					
Department DC12				_	
110V	Operating ourrent DC	10	5007	Α	1.4
24V	Operating current DC	12	110\/	۸	2.0
24V	Operating ourrent DC	12	1100	A	2.9
A8V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Deparations	Operating current DC	13	241/	٨	2.0
60V					
110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1					
125V A 0.55 220V A 0.3 600V A 0.1					
Derations Mechanical life cycles 20000000 Electrical life cycles 500000 Electrical life cycles 5000000 Electrical life cycles 5000000000 Electrical life cycles 5000000000000000000000000000000000000					
Departions Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility C coil operating					
Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility YES CC coil operating			600V	Α	0.1
Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility C coil operating	Operations				
Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility YES OC coil operating	Mechanical life			cycles	
Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility YES OC coil operating	Electrical life			cycles	500000
rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility C coil operating	Safety related data				
mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility YES OC coil operating	Performance level B1	0d according to EN/ISO 13489-1			
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility YES OC coil operating				-	
EMC compatibility C coil operating YES			mechanical load	cycles	
DC coil operating		ng to IEC/EN 609474-4-1			
					YES
orated control voltage V 110				\/	440
	DC rated control volta	y e		V	110

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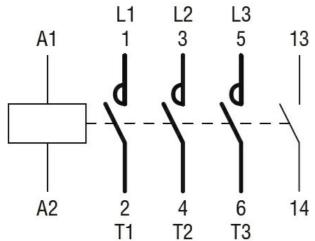
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DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
	·		min	%Us	10
			max	%Us	25
Average coil consum	ption ≤20°C				
	•		in-rush	W	3.2
			holding	W	3.2
Max cycles frequency	/				
Mechanical operation				cycles/h	3600
Operating times				, , , , , , , , , , , , , , , , , , , ,	
Average time for Us o	control				
	in AC				
	111710	Closing NO			
		Closing IVC	min	ms	12
			max	ms	21
		Opening NO	max	1113	21
		Opening NO	min	ms	9
			max	ms	18
		Closing NC	IIIdA	1113	10
		Closing NC	min	ms	17
			max	ms	26
		Opening NC	IIIdA	1113	20
		Opening NC	min	ms	7
			max	ms	, 17
	in DC		IIIdx	1113	17
	III DC	Closing NO			
		Closing NO	min	ms	18
					25
		Opening NO	max	ms	25
		Opening NO	min	ma	2
			min	ms	3
		Closing NC	max	ms	3
		Closing NC	min	mc	3
				ms	
		Opening NC	max	ms	5
		Opening NC	min	mc	11
				ms	17
UL technical data			max	ms	17
Full-load current (FLA) for three-phase	AC motor			
i uli-loau cullelli (FLA	y ioi unee-pnase	AO IIIOIOI	at 480V	Α	11
			at 480V at 600V	A	11 11
Violded machanical =	orformanas		al DUUV	А	11
Yielded mechanical p		a AC mater			
	for single-phas	SE AC MOTOL	440/400	LID.	0.5
			110/120V	HP	0.5
	f==41		230V	HP	1.5
	for three-phase	e AC motor	000/000	L/D	0
			200/208V	HP	3
			220/230V	HP	3
				HP	7.5
			460/480V 575/600V	HP	10



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	Contactor				
		AC current	Α	20	
Short-circuit protection	fuse, 600V				
	High fault				
		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	
	ry contacts according to UL			A600 - Q60	00
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	n				
Pollution degree				3	
Dimensions					
4.4 (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.33") (0					
Trining diagrams	1 12 13				



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



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11BG1210D110

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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