



# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT



Product designation			Auxiliary contactor
Product type designati	ion		BG12
Contact characteristics			B012
Number of poles		nr.	3
Rated insulation voltage	ne Ui	V	690
Rated impulse withstar		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air the	nermal current Ith	Α	20
Operating current			
	Operational current AC3 (≤440V ≤55°C)	Α	12
	Operational current AC4 (400V)	A	4.8
	urrent for 10s (IEC/EN60947-1)	Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	A	16
Making capacity (RMS	•	Α	120
Breaking capacity at vo	=	_	
	Breaking capacity 440V	A	96
	Breaking capacity 500V	A	72
Desistance per pole /a	Breaking capacity 690V	A	72
Resistance per pole (a		mΩ	10
Power dissipation per	· · · · · · · · · · · · · · · · · · ·	W	1
	Power dissipation pole (average value) Ith AC3	W	4 1.44
Tightening torque for to		VV	1.44
rigintering torque for to	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
Tightening torque for c			
5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
max number of wires s	simultaneously connectable	nr.	2
Conductor section			
	AWG		
	min		18
	max		12
	Flexible w/o lug conductor section		
	min	mm²	0.75
	max	mm²	2.5





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	Flexible c/w lug conductor section			_
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	The state of the s	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20
Auxiliary contact chara				0
Type of contact				1 NA
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600
Ambient conditions	Signation			7,000
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-40
		min	°C	
	Storage temperature	max		60
	Storage temperature		°C	<b>E E</b>
		min	°C °C	-55 70
Maria del Carta		max		
Max altitude			m	3,000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	0.18
Operations				
•			<u> </u>	
Mechanical life			Cycles	20,000,000
Mechanical life Electrical life			Cycles Cycles	20,000,000 500000
Mechanical life Electrical life Safety related data				500000
Mechanical life Electrical life Safety related data Mirror contats according	ng to IEC/EN 609474-4-1			500000 Yes
Mechanical life Electrical life Safety related data Mirror contats according EMC compatibility	ng to IEC/EN 609474-4-1			500000
Mechanical life Electrical life Safety related data Mirror contats according	ng to IEC/EN 609474-4-1			500000 Yes
Mechanical life Electrical life Safety related data Mirror contats according EMC compatibility				500000 Yes
Mechanical life Electrical life Safety related data Mirror contats accordine EMC compatibility AC coil operating		min		500000 Yes
Mechanical life Electrical life Safety related data Mirror contats accordine EMC compatibility AC coil operating		min max	Cycles	Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordine EMC compatibility AC coil operating			Cycles	500000 Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5			Cycles	500000 Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz		Cycles	500000 Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz  of 50/60Hz coil powered at 50Hz		Cycles	500000 Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz  of 50/60Hz coil powered at 50Hz	max	V V	500000 Yes Yes 12 575
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz  of 50/60Hz coil powered at 50Hz	max	V V	500000 Yes Yes 12 575
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz  of 50/60Hz coil powered at 50Hz pick-up	max	V V	500000 Yes Yes 12 575
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz  of 50/60Hz coil powered at 50Hz pick-up	max min max	V V V	75 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz  of 50/60Hz coil powered at 50Hz pick-up	max min max min	V V V *Us %Us	500000 Yes Yes 12 575 75 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	V V V *Us %Us	500000 Yes Yes 12 575 75 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V V V *Us %Us	500000 Yes Yes 12 575 75 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min max	V V V %Us %Us %Us	500000 Yes Yes 12 575 75 115 20 55
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	min max min max	V V V *Us *Us *Us	500000 Yes Yes 12 575 75 115 20 55
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min max min max	V V V *Us *Us *Us	500000 Yes Yes Yes  12 575  75 115 20 55  80 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max	V V V W S WUS WUS WUS WUS WUS WUS	500000 Yes Yes Yes  12 575  75 115 20 55  80 115 20
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max	V V V *Us *Us *Us	500000 Yes Yes Yes  12 575  75 115 20 55  80 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min max	V V V W S WUS WUS WUS WUS WUS WUS	500000 Yes Yes Yes  12 575  75 115 20 55  80 115 20
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max min max	V V V W S WUS WUS WUS WUS WUS WUS	500000 Yes Yes Yes  12 575  75 115 20 55  80 115 20





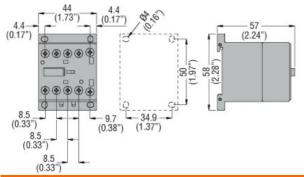
# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

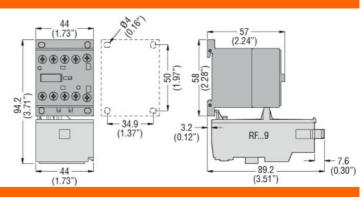
			max	%Us	115
		drop-out			
		•	min	%Us	20
			max	%Us	55
AC operating voltage				,,,,,	
710 operating voltage	of 50/60Hz coil po	owered at 50Hz			
	01 30/00112 COII pc	owered at 50Hz	in-rush	VA	30
	. ( 50/0011 '1		holding	VA	4
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding :	≤20°C 50Hz			W	0.95
DC coil operating					
DC rated control voltage	ge				
	•		min	V	6
			max	V	250
DC aparating valtage			IIIax	v	230
DC operating voltage	adala a				
	pick-up			0/11	75
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	20
Average coil consuption	on ≤20°C				
					0.0
			in-rush	W	3.2
					3.2 3.2
Max cycles frequency			in-rush holding	W	3.2
Max cycles frequency Mechanical operations			holding	W	3.2
Mechanical operations			holding		3.2
Mechanical operations Operating times			holding	W	3.2
Mechanical operations	ontrol		holding	W	3.2
Mechanical operations Operating times		Olasia a NO	holding	W	3.2
Mechanical operations Operating times	ontrol	Closing NO	holding	W Cycles/h	3,600
Mechanical operations Operating times	ontrol	Closing NO	holding	W Cycles/h ms	3,600
Mechanical operations Operating times	ontrol	-	holding	W Cycles/h	3,600
Mechanical operations Operating times	ontrol	Closing NO Opening NO	holding min max	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	-	holding	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	Opening NO	holding min max	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	-	holding  min  max  min	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	Opening NO	holding  min  max  min	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	Opening NO	min max min max	W Cycles/h ms ms ms	3.2 3,600 12 21 9 18
Mechanical operations Operating times	ontrol	Opening NO Closing NC	min max min max	W Cycles/h ms ms ms ms	3.2 3,600 12 21 9 18
Mechanical operations Operating times	ontrol	Opening NO	min max min max min max	ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26
Mechanical operations Operating times	ontrol	Opening NO Closing NC	min max min max min max	W Cycles/h ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC	min max min max min max	ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26
Mechanical operations Operating times	ontrol	Opening NO Closing NC Opening NC	min max min max min max	W Cycles/h ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max	W Cycles/h ms ms ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W Cycles/h ms ms ms ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	W Cycles/h ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max	W Cycles/h ms ms ms ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	W Cycles/h ms	3.2 3,600 12 21 9 18 17 26 7 17



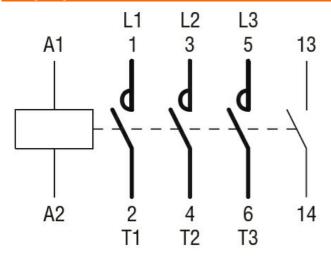
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min	ms	3
max	ms	5
Opening NC		· ·
min	ms	11
max	ms	17
UL technical data		
Full-load current (FLA) for three-phase AC motor		
at 480V	Α	11
at 600V	Α	11
Yielded mechanical performance		
for single-phase AC motor		
at 110/120V	hp	0.5
at 230V	hp	1.5
for three-phase AC motor		
at 200/208V	hp	3
at 220/230V	hp	3
at 460/480V	hp	7.5
at 575/600V	hp	10
Dimensions		





### Wiring diagrams



# Certifications and compliance

# Certifications

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

# Compliance



# 11BG1210A024

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CCC		
cULus		
EAC		

ETIM 6 classification

EC000066 - Power contactor, AC switching