



Product designation			Auxiliary
•			contactor
Product type designation			BG12
Contact characteristics		Nie	3
Number of poles		Nr. V	690
Rated insulation voltage Ui IEC/EN		kV	6
Rated impulse withstand voltage Uimp		KV	0
Operational frequency	min	LI-	25
	min	Hz Hz	400
IEC Conventional free air thermal current Ith	max	A	20
Operational current le			20
Operational current le	AC-1 (≤40°C)	Α	20
	AC-1 (≤40 C) AC-1 (≤55°C)	A	18
	AC-1 (≤33°C) AC-1 (≤70°C)	A	15
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	12
	AC-3 (\$440V \$55 C) AC-4 (400V)	A	4.8
Rated operational power AC-3 (T≤55°C)	70-4 (400V)		4.0
Nated operational power AO-5 (1255 O)	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5.5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	090 V	KVV	
Nated operational power AO-1 (1340 O)	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	030 V	IXVV	
120 max current le in DOT with E/N 2 mis with 1 poles in series	≤24V	Α	12
	48V	A	10
	75V	A	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	A	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	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	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	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	<b>2041</b> /	^	
	≤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
			-



	ma	x Ibin	9
Max number of wires	simultaneously connectable	Nr.	2
Conductor section			
	AWG/Kcmil		
	ma	X	12
	Flexible w/o lug conductor section		
	mi	n mm²	0.8
	ma	x mm²	2.5
	Flexible c/w lug conductor section		_
	mi	n mm²	1.5
	ma	x mm²	2.5
	Flexible with insulated spade lug conductor section		
	mi	n mm²	1.5
	ma	x mm²	2.5
Power terminal prote	ction according to IEC/EN 60529		IP20
Mechanical features			
Operating position			
	norma	al	Vertical plan
	allowabl	Э	±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	200
Auxiliary contact char	acteristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 de			Q600
Operating current AC			
	230		3
	400'		1.9
	500	/ A	1.4
Operating current DC			
	110	/ A	2.9
Operating current DC			
	24		2.9
	48		1.4
	60'		1.2
	110		0.6
	125		0.55
	220'		0.3
	600'	/ A	0.1
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data	40 Leave Fee to FN//00 40400 4		
Performance level B	10d according to EN/ISO 13489-1		<b>5</b> 00000
	rated loa	•	500000
	mechanical loa	d cycles	20000000
EMC compatibility			YES
DC coil operating		1.7	405
DC rated control volta		V	125
DC operating voltage			
	pick-up	. 0/!!	7.5
	mi		75 445
	ma	x %Us	115



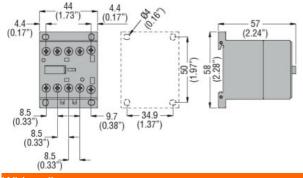


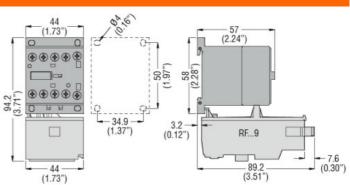
Min   Mus   Mus   25     Average coil consumption ≤20°C						
Average coil consumption ≤20°C    in-rush   W   3.2       holding   W   3.2     holding   W   1.5     holding   W   3.2     holding   W   1.5     holding   W   3.2     holding   W   3.2     holding   W   3.2     holding   W   1.5     holding		drop-out			0/11	4.0
Average coll consumption ≤20°C    in-rush   W   3.2   holding   W   3.2     Max cycles frequency						
In-rush   W   3.2   holding   W   3.2	Average sell consument	inn <00°C		max	%US	25
Max cycles frequency         Cycles/h         3600           Mechanical operation         cycles/h         3600           Operating times           Closing NO         min         ms         12           Max         ms         21           Opening NO         min         ms         18           Closing NC         min         ms         17           Max         ms         26           Opening NC         min         ms         7           in DC         Closing NO         min         ms         17           Closing NO         min         ms         15           Opening NO         min         ms         2           Closing NC         min         ms         3           Closing NC         min         ms         3           Closing NC         min         ms         3           Opening NC         min         ms         3           Opening NC         min         ms         3           Opening NC         min         ms         5	Average con consumpt	ion ≤20 C		in ruch	۱۸/	2.2
Mack cycles frequency           Mechanical operation         cycles/h         3600           Operating times           Closing NO           min         ms         12           max         ms         21           Opening NO         min         ms         18           Closing NC         min         ms         17           max         ms         26           Opening NC         min         ms         7           in DC         Closing NO         min         ms         18           Opening NO           Min         ms         15           Opening NO           Min         ms         2           Max         ms         3           Closing NC         min         ms         2           Max         ms         3           Closing NC         min         ms         3           Opening NC         min         ms         3           Max         ms         5           Opening NC         min						
Mechanical operation	Max cycles frequency			Holding	VV	3.2
Closing NO					cycles/h	3600
Average time for Us control  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  max ms 26  Opening NC  min ms 7 max ms 17  in DC  Closing NO  min ms 17  in DC  Closing NO  min ms 18 max ms 25  Opening NO  min ms 18 max ms 25  Opening NO  min ms 3  Closing NO  min ms 3  Closing NO  min ms 5  Opening NO  min ms 18 max ms 5  Opening NC  min ms 3  Closing NC  min ms 3  Closing NC  min ms 3  The max ms 3  Closing NC  min ms 11 max ms 5  Opening NC  min ms 11 max ms 5  Opening NC  min ms 11 max ms 17  UL technical data  Rated operational voltage AC (UL)  V 600  Full-load current (FLA) for three-phase AC motor  at 480V A 11 at 600V A 11  Yielded mechanical performance for single-phase AC motor  for three-phase AC motor	· ·				0,0100/11	0000
in AC    Closing NO	-	ntrol				
Opening NO	Ū					
Opening NO			Closing NO			
Opening NO				min	ms	12
Closing NC				max	ms	21
Closing NC			Opening NO	_		
Closing NC						
Opening NC    Min   Ms   17   Max   Ms   26   Ms   Ms   26   Ms   Ms   Ms   26   Ms   Ms   Ms   Ms   Ms   Ms   Ms   M			Olasias NO	max	ms	18
Opening NC			Closing INC	min	me	17
Opening NC						
Min ms 7 max ms 17   max ms 18   max ms 25   max ms 25   max ms 3   max ms 3   max ms 3   max ms 5   max ms 5   max ms 17			Opening NC	IIIdA	1113	20
Max			oponing 110	min	ms	7
Closing NO						
Min		in DC				
Opening NO    min ms   25   max ms   3   max ms   5   max ms   5   max ms   5   max ms   11   max ms   17   max ms   1			Closing NO			
Opening NO    min   ms   2   max   ms   3				min	ms	18
Min ms 2 max ms 3 ms 3 max ms 3 max ms 5 max ms 5 max ms 5 max ms 5 max ms 11 max ms 17				max	ms	25
Closing NC    min   ms   3   max   ms   5			Opening NO			
Closing NC						
Min ms 3 max ms 5   S   Min max ms 5   S   Min max ms 5   S   Min max ms 11 max ms 17   Min			Oleria NO	max	ms	3
Opening NC    min ms 11 max ms 17			Closing NC	min	<b>m</b> .a	2
Opening NC						
Min ms			Opening NC	IIIax	1113	3
Max ms   17			Opening 110	min	ms	11
Nated operational voltage AC (UL)   V   600						
Full-load current (FLA) for three-phase AC motor  at 480V A 11  At 600V A 11  Yielded mechanical performance for single-phase AC motor  110/120V HP 0.5 230V HP 1.5	UL technical data					
at 480V     A     11       A th 600V     A     11       Yielded mechanical performance     The for single-phase AC motor     The formula of the following single phase AC motor       110/120V     HP     0.5       230V     HP     1.5       For three-phase AC motor	Rated operational volta	ge AC (UL)			V	600
At 600V         A 11           Yielded mechanical performance for single-phase AC motor         110/120V         HP 0.5           230V         HP 1.5           for three-phase AC motor	Full-load current (FLA)	for three-phase AC m	otor			
Yielded mechanical performance for single-phase AC motor  110/120V HP 0.5 230V HP 1.5  for three-phase AC motor						
for single-phase AC motor  110/120V HP 0.5  230V HP 1.5  for three-phase AC motor	-			at 600V	Α	11
110/120V HP 0.5 230V HP 1.5 for three-phase AC motor	Yielded mechanical per					
for three-phase AC motor		tor single-phase AC	motor	4404000		0.5
for three-phase AC motor						
		for three phase AC n	notor	2307	HP	1.5
		ioi iiiiee-piiase AC r	HOIOI	200/208V	HP	3
200/200V HP 3 220/230V HP 3						
460/480V HP 7.5						
575/600V HP 10						
General USE	General USE					
Contactor		Contactor				
AC current A 20				AC current	Α	20
Short-circuit protection fuse, 600V	Short-circuit protection	fuse, 600V				



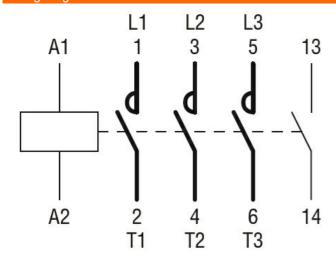


High fault			
	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			_
	Short circuit current	kA	5
	Fuse rating	Α	30
	Fuse class		RK5
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			_
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
M AA			





### Wiring diagrams



### Certifications and 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



**ENERGY AND AUTOMATION** 

## 11BG1210D125

AC switching

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	n	
		EC000066 -
ETIM 8.0		Power contactor,