



Product designation			Power contacto
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)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	А	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
EC max current le in DC1 with L/R $\leq$ 1ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	А	_
EC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	A	14
	75V	А	9
	110V	А	8
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	A	16
	75V	A	10



11BG1201D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC, **INC AUXILIARY CONTACT** 

ENERGY AND AUTOMATION			
	220V	А	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	А	-
	75V	А	-
	110V	А	-
	220V	А	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	Α	7
	48V	А	6
	75V	А	2
	110V	А	1

			•
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	А	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	_
	48V	А	-
	75V	А	-
	110V	А	-
	220V	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	А	16
Making capacity (RMS value)		А	120
Breaking capacity at voltage			
	440V	А	96
	500V	А	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9

## Tightening torque for coil terminal


min

max

min

0.8

1

9

Nm

Nm

Ibin



**11BG1201D125** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT

lbin 9 max 2 Max number of wires simultaneously connectable Nr. Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section 0.75 min mm<sup>2</sup> mm<sup>2</sup> 2.5 max Flexible c/w lug conductor section 1.5 min mm<sup>2</sup> max mm<sup>2</sup> 2.5 Flexible with insulated spade lug conductor section mm<sup>2</sup> 1.5 min mm<sup>2</sup> 2.5 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 128 g Conductor section AWG/kcmil conductor section 12 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 2.9 **Operating current DC13** 24V А 2.9 48V А 1.4 60V A 1.2 110V А 0.6 125V А 0.55 220V А 0.3 600V А 0.1 Operations Mechanical life 20000000 cycles Electrical life 500000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 500000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating



11BG1201D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC,

**1NC AUXILIARY CONTACT** 

DC lade Unitin Visinge DC operating voltage pick-up drop-out max \$4Us 4000 - 000 max \$4000 - 000 0000 - 0000 - 000 - 0000 - 0000 - 000 - 00000 - 0000 - 000 - 0000 0000 - 0000 - 0000 - 0000	DC rated control voltage	10			V	125
pick-up   min   %Us   75     drop-out   min   %Us   115     drop-out   min   %Us   10     max   %Us   25     Average coil consumption \$20°C   in-rush   W   3.2     Max cycles frequency   w   3.2     Machacal operation   cyclesh   3600     Operang time for Us control   cyclesh   3600     in AC   Closing NO   min   ms   12     Opening NO   min   ms   12     Opening NO   min   ms   12     min<		je			v	125
min   %US   75     drop-out   min   %US   10     max   %US   10     max   %US   25     Average coll consumption 520°C   in-rush   W   3.2     Max cycles frequency   w   3.2     Max cycles frequency   cycles/h   3600     Operating times   cycles/h   3600     Average time for Us control   min   ms   12     Max cycles frequency   max   ms   21     Opening NO   min   ms   9     Closing NC   min   ms   18     Closing NC   min   ms   7     Max   ms   17   max   ms     Opening NC   min   ms   18     Closing NO   min   ms   12     Max   ms   16   11     Closing NC   min   ms   11     Max   ms   11   11     Opening NC   m	De operating voltage	nick-un				
max   %/Us   115     drop-out   min   %/Us   10     Average coll consumption \$20°C   in-rush   W   3.2     Max cycles frequency   in-rush   W   3.2     Max cycles frequency   cycles/h   3600     Operating times   cycles/h   3600     Average time for Us control   in AC   max   ms   12     Opening NO   min   ms   9   max   ms   18     Closing NC   min   ms   17   max   ms   26     Opening NC   min   ms   17   max   ms   26     Opening NC   min   ms   17   max   ms   26     Opening NC   min   ms   17   max   ms   25     Opening NO   min   ms   25   max   ms   3     Opening NC   min   ms   3   1   max   ms   3     Opening NC <td< td=""><td></td><td>plot up</td><td></td><td>min</td><td>%Us</td><td>75</td></td<>		plot up		min	%Us	75
drop-out   min   %Us   10     Average coll consumption 520°C   in-rush   W   3.2     Max cycles frequency   w   3.2     Max cycles frequency   cycles/h   3600     Closing NO   min   ms   12     Average time for Us control   in AC   min   ms   12     Closing NO   min   ms   9   13     Average time for Us control   in AC   max   ms   21     Opening NO   min   ms   9   13     Closing NC   min   ms   7   13     Opening NC   min   ms   7   17     In DC   Closing NO   min   ms   25   17     In DC   Closing NO   min   ms   3   16     Opening NO   min   ms   25   16   16     Use chaical data   max   ms   3   16   16     Use chaical data   max   ms						
min   %Us   10 max     Average coil consumption ≤20°C   in-rush in-rush W   3.2 bioloing     Max cycles frequency   W   3.2 bioloing     Max cycles frequency   v   3.2     Average time for Us control in AC   max   ms   12     Opening NO   min   ms   9     max   ms   18   10     Closing NC   min   ms   17     max   ms   18   10     Opening NC   min   ms   17     in DC   Closing NO   min   ms   25     Opening NO   min   ms   25     Opening NO   min   ms   3     Closing NC   min   ms   3     Opening NC   min   ms   3		drop-out				
Average coil consumption ≤20°C   in-rush W 3.2 holding W 3.2 holding W 3.2     Max cycles frequency				min	%Us	10
in-rush holding   W   3.2 holding     Max cycles frequency   300     Mechanical operation   cycles/h   3600     Operating times				max	%Us	25
holding   W   3.2     Max cycles frequency   cycles/h   3600     Operating times   cycles/h   3600     Average time for Us control   max   ms   12     Average time for Us control   min   ms   12     Opening NO   min   ms   21     Opening NO   min   ms   12     Opening NO   min   ms   21     Opening NC   min   ms   13     Opening NC   min   ms   17     Opening NC   min   ms   17     Max   ms   17   max   ms   26     Opening NC   min   ms   17   max   ms   17     In DC   Closing NO   min   ms   18   max   ms   3     Opening NC   max   ms   3   3   3   3     Opening NC   min   ms   3   3   3   3     Opening	Average coil consump	tion ≤20°C				
Mac cycles frequency   cycles h   3600     Mechanical operation   cycles h   3600     Operating times						
Mechanical operation   cycles/h   3600     Operating times				holding	W	3.2
Operating times     Average time for Us control     in AC     Closing NO     min   ms     Opening NO     min   ms     Opening NO     min   ms     Opening NO     max   ms     Opening NC   min     max   ms     Opening NC   min     max   ms     Opening NC   min     max   ms     Opening NO   min     max   ms     Opening NO   min     max   ms     Opening NO   max     max   ms     Opening NC   max     max   ms     Max   ms     Max   ms     To trans   max						
Average time for Us control in AC   Closing NO   min   ms   12     Opening NO   min   ms   9     Opening NO   min   ms   9     Closing NC   min   ms   18     Opening NC   min   ms   17     Opening NC   min   ms   7     Opening NC   min   ms   7     In DC   Closing NO   max   ms   18     Closing NO   min   ms   7   17     In DC   Closing NO   max   ms   25     Opening NO   min   ms   2     Max   ms   3   1     Closing NC   max   ms   3     Opening NC   max   ms   3     Opening NC   max   ms   1     Max   ms   1   1   1     Opening NC   max   ms   1   1     Utechnicial data   ms   1					cycles/h	3600
in AC Closing NO max ms 12 max ms 21 Opening NO max ms 18 Closing NC max ms 26 Opening NC max ms 26 Opening NC max ms 17 max ms 17 max ms 26 Opening NC min ms 18 max ms 25 Opening NO min ms 25 Opening NO min ms 25 Opening NC min ms 3 Closing NC min ms 3 Closing NC min ms 3 max ms 3 Closing NC min ms 11 max ms 5 Opening NC min ms 11 max ms 17 Ut technical dat Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor Tick for three-phase AC motor Max Max Max Max Max Max Max Max Max Max						
Closing NO   max   ms   12     Max   ms   21     Opening NO   max   ms   9     max   ms   18     Closing NC   min   ms   16     Max   ms   17     Opening NC   max   ms   26     Max   ms   7     max   ms   7     max   ms   7     max   ms   7     max   ms   17     max   ms   7     max   ms   18     Opening NO   max   ms   25     Opening NO   max   ms   3     Closing NC   max   ms   3     Closing NC   max   ms   3     Opening NC   max   ms   3     Opening NC   max   ms   11     Max   ms   12   11   11     Vietechrical data <t< td=""><td>Average time for Us co</td><td></td><td></td><td></td><td></td><td></td></t<>	Average time for Us co					
min   ms   12     Opening NO   min   ms   9     max   ms   18     Closing NC   min   ms   17     Opening NC   min   ms   7     Opening NC   min   ms   7     max   ms   17     In DC   Closing NO   min   ms   17     In DC   Closing NO   min   ms   25     Opening NO   min   ms   25     Opening NO   min   ms   3     Closing NC   min   ms   3     Opening NC   min   ms   3     Opening NC   min   ms   3     Opening NC   min   ms   11     UL technical data   min   ms   11     Full-load current (FLA) for three-phase AC motor   min   ms   11     Yielded mechanical performance   for three-phase AC motor   230V   HP   3.5     for three-phase		IN AC				
Image: Market of the second				min	me	12
$\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$						
min   ms   9     Closing NC   min   ms   18     Opening NC   min   ms   17     max   ms   26     Opening NC   min   ms   7     max   ms   17     in DC   Closing NO   min   ms   17     Opening NO   min   ms   18     Max   ms   25   0     Opening NO   min   ms   25     Opening NO   min   ms   3     Closing NC   min   ms   3     Opening NC   min   ms   3     Opening NC   min   ms   11     Max   ms   17   11     UL technical data   tat 800V   A   11     Yielded mechanical performance   at 480V   A   11     Yielded mechanical performance   tat 800V   A   11     Yielded mechanical performance   200/208V   HP   0.5			Openina NO	max		
$\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$				min	ms	9
$\begin{tabular}{ c c c c c } & & & & & & & & & & & & & & & & & & &$						
$\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$			Closing NC			
Opening NC   min   ms   7     in DC   Closing NO   17     in DC   Closing NO   min   ms   18     Opening NO   min   ms   25     Opening NO   min   ms   2     Max   ms   3     Closing NC   min   ms   3     Closing NC   min   ms   3     Opening NC   min   ms   3     Vielded current (FLA) for three-phase AC motor   min   ms   11     Yielded mechanical performance for single-phase AC motor   at 480V   A   11     Yielded mechanical performance   200/208V   HP   0.5     230V   HP   1.5   10     for three-phase AC motor   200/208V   HP   3     220/230V   HP   3   220/230V     460/480V   HP   7.5   3				min	ms	17
min   ms   7     in DC   Closing NO   min   ms   17     in DC   Closing NO   min   ms   18     max   ms   25   0				max	ms	26
max   ms   17     in DC   Closing NO   min   ms   18     max   ms   25   0   min   ms   25     Opening NO   min   ms   2   max   ms   3     Closing NC   min   ms   3   max   ms   5     Opening NC   min   ms   5   max   ms   11     VL technical data   min   ms   11   max   ms   11     Yielded mechanical performance   for single-phase AC motor   at 480V   A   11     Yielded mechanical performance   for single-phase AC motor   110/120V   HP   0.5     230V   HP   1.5   1.5   1.5   1.5   1.5     for three-phase AC motor   200/208V   HP   3   220/230V   HP   3     220/230V   HP   3   220/230V   HP   3   220/230V   HP   3			Opening NC			
in DC   Closing NO   min   ms   18     Max   ms   25     Opening NO   min   ms   2     Max   ms   3     Closing NC   min   ms   3     Max   ms   5   0     Opening NC   min   ms   3     Max   ms   11   max   ms   17     UL technical data   min   ms   11   max   ms   17     UL technical data   min   ms   11   max   ms   17     UL technical data   max   ms   11   max   11     Yielded mechanical performance   at 600V   A   11     Yielded mechanical performance   110/120V   HP   0.5     20V   20V   HP   1.5     for three-phase AC motor   200/208V   HP   3     220/230V   HP   3   220/230V   HP   3     220/230V   <						
Closing NO   min   ms   18     Max   ms   25     Opening NO   min   ms   2     min   ms   3   2     Closing NC   min   ms   3     Opening NC   min   ms   3     Opening NC   min   ms   11     Max   ms   11   11     Vielded current (FLA) for three-phase AC motor   at 480V   A   11     Yielded mechanical performance   for single-phase AC motor   110/120V   HP   0.5     230V   HP   1.5   1.5   1.5   1.5     for three-phase AC motor   200/208V   HP   3   220/230V   HP   3     220/203V   HP   3   220/230V   HP   3   220/230V   HP   3				max	ms	17
$\begin{tabular}{l lllllllllllllllllllllllllllllllllll$		in DC				
max   ms   25     Opening NO   min   ms   2     max   ms   3     Closing NC   min   ms   3     Opening NC   min   ms   3     Opening NC   min   ms   11     Max   ms   17   11     VL technical data   min   ms   11     Full-load current (FLA) for three-phase AC motor   at 480V   A   11     Yielded mechanical performance   for single-phase AC motor   110/120V   HP   0.5     230V   HP   1.5   1.5   1.5   1.5     for three-phase AC motor   200/208V   HP   3   220/230V   HP   3     220/230V   HP   3   220/230V   HP   3   220/230V   HP   3     220/230V   HP   3   220/230V   HP   3   20/208V   HP   3				min	me	10
Opening NO   min   ms   2     max   ms   3     Closing NC   min   ms   3     min   ms   3     Opening NC   min   ms   5     Opening NC   min   ms   11     Max   ms   11   max   ms   11     Vielded data   ms   11   max   11   11     Yielded mechanical performance   at 480V   A   11   11     Yielded mechanical performance   for single-phase AC motor   110/120V   HP   0.5     230V   HP   1.5   1.5   1.5   1.5     for three-phase AC motor   200/208V   HP   3   220/230V   HP   3   460/480V   HP <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			Opening NO	Пах	mo	20
$\begin{array}{c c} & max & ms & 3 \\ Closing NC & & min & ms & 3 \\ & max & ms & 3 \\ & max & ms & 5 \\ \hline \\ Opening NC & & & & \\ & min & ms & 11 \\ & max & ms & 17 \\ \hline \\ $			oponing ito	min	ms	2
Closing NC   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   A   11     Yielded mechanical performance     for single-phase AC motor     Yielded mechanical performance     for single-phase AC motor     Yielded mechanical performance     for single-phase AC motor     Yielded mechanical performance     Single-phase AC motor     Yielded Mechanical perform						
max   ms   5     Opening NC   min   ms   11     max   ms   17     UL technical data   ms   11     Full-load current (FLA) for three-phase AC motor   at 480V   A   11     Yielded mechanical performance   at 480V   A   11     Yielded mechanical performance   110/120V   HP   0.5     230V   HP   1.5     for three-phase AC motor   110/120V   HP   3     220/230V   HP   3   220/230V   HP   3     460/480V   HP   7.5   3   3   3			Closing NC			
Main   min   ms   11     max   ms   17     UL technical data   x   x     Full-load current (FLA) for three-phase AC motor   at 480V   A   11     Yielded mechanical performance   at 600V   A   11     Yielded mechanical performance   result   110/120V   HP   0.5     230V   HP   1.5   15   15     for three-phase AC motor   200/208V   HP   3     220/230V   HP   3   220/230V   HP   3     460/480V   HP   7.5   15   16				min	ms	3
min   ms   11     max   ms   17     UL technical data				max	ms	5
max   ms   17     UL technical data     Full-load current (FLA) for three-phase AC motor     at 480V   A   11     at 600V   A   11     Yielded mechanical performance   Intervention   Intervention     for single-phase AC motor   Intervention   Intervention     110/120V   HP   0.5   230V     230V   HP   1.5     for three-phase AC motor   Intervention   Intervention     220/208V   HP   3     220/230V   HP   3     460/480V   HP   7.5			Opening NC			
UL technical data     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   110/120V   HP   3     220/208V   HP   3   220/230V   HP   3     460/480V   HP   7.5   5   3						
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   for three-phase AC motor 200/208V HP 3   220/230V HP 3   460/480V HP 7.5				max	ms	1/
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   for three-phase AC motor 200/208V HP 3   220/230V HP 3   460/480V HP 7.5		for three phase AC ma	otor			
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   200/208V   HP   3     220/230V   HP   3   460/480V   HP   7.5	r ull-load current (FLA)	ior unree-phase AC mo		at ARU/	Δ	11
Yielded mechanical performance for single-phase AC motor   110/120V   HP   0.5     230V   HP   1.5     for three-phase AC motor   200/208V   HP   3     220/230V   HP   3     460/480V   HP   7.5						
for single-phase AC motor 110/120V HP 0.5   230V HP 1.5   for three-phase AC motor 200/208V HP 3   220/230V HP 3   460/480V HP 7.5	Yielded mechanical pe	rformance		a. 000 V		
110/120V HP 0.5   230V HP 1.5   for three-phase AC motor 200/208V HP 3   220/230V HP 3   460/480V HP 7.5			notor			
230V   HP   1.5     for three-phase AC motor   200/208V   HP   3     220/230V   HP   3     460/480V   HP   7.5				110/120V	HP	0.5
for three-phase AC motor 200/208V HP 3 220/230V HP 3 460/480V HP 7.5						
200/208V HP 3 220/230V HP 3 460/480V HP 7.5		for three-phase AC m	notor			
460/480V HP 7.5		-		200/208V	HP	3
					HP	
575/600V HP 10						
				575/600V	HP	10



ENERGY AND AUTOMATION

ENERGY AND AUTOMATION				
General USE				
	Contactor			
Short-circuit protectio	r fuco 600 V	AC current	A	20
	High fault			
	ingiriaan	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			_
		Short circuit current Fuse rating	kA A	5 30
		Fuse class	A	RK5
Contact rating of auxil	liary contacts according to UL			A600 - Q600
Ambient conditions	,			
Temperature				
	Operating temperature			
		min	°C	-50
	Storogo tomporaturo	max	°C	+70
	Storage temperature	min	°C	-60
		max	°Č	+80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree Dimensions				3
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	57 (2.24") (2.	44 (1.73") (1.73") (1.37") (1.37") (0.12"	(2.28") 50	57 .24") RF9 9 
	$ \begin{bmatrix} 1 & L2 & L3 \\ 1 & 3 & 5 & 21 \\ \end{bmatrix} \\ \begin{pmatrix} d & d \\ & - \end{pmatrix} \\ \begin{pmatrix} - & - & - \\ - & - & - \end{pmatrix} $			

T1

CSA C22.2 n° 60947-1

**T**3

T2



## 11BG1201D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC, **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