



Product type designation BG12 Contact characteristics				
Contact characteristicsNumber of polesNr. 3Rated insultation voltage UIEC/ENVRated insultation voltage UIEC/ENVRated insultation voltage UIEC/ENKVOperational frequencyminHz25maxHzHz400IEC Conventional frequencyA20AC-1 (≤40°C)A 20AC-1 (≤40°C)Operational current leAC-1 (≤40°C)AC-1 (≤50°C)AAC-1 (≤50°C)AAC-3 (≤440V ≤55°C)AAC-3 (≤440V ≤55°C)AAC-4 (400V)AAAC-3 (T≤55°C)230VkWAC-4 (400V)AAC-4 (40V)KWAC-4 (40V)KW<	Product designation			Power contactor
Number of polesNr.3Rated insulation voltage Ui IEC/ENV690Rated insulation voltage UimpKV6Operational frequencyminHz25maxHz40015IEC Conventional free air thermal current IthA20Operational current IeAC-1 (≤40°C)A20AC-1 (≤55°C)A18AC-1 (≤55°C)A18AC-3 (≤4400×555°C)A12AC-4 (400V)A4.8Rated operational power AC-3 (T≤55°C)230VkW3.2400VkW5.5SolovkW5.5500VkW5.5500VkW5.5Rated operational power AC-1 (T≤40°C)230VkW8400VkW16G90VkW16690VkW16690VkW16IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA1248VA10IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA1248VA14TOVA3200VA-110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA1548VA1475VA9110VA8220VA-1648VA1648VA1648VA1648VA1648VA1648VA	Product type designation			BG12
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 frequency A 20 Operational current le A 20 Operational current le A 20 AC-1 (555°C) A 15 AC-1 (555°C) A 12 AC-1 (4000) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 230V kW 5.5 500V kW 5 690V kW 5 690V kW 5 690V kW 8 400V kW 16 690V kW 16 690V kW 3 220 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series \$24V A 524V A 10 75V A	Contact characteristics			
Rated impulse withstand voltage UimpkV6Operational frequencyminHz25maxHz400400IEC Conventional current leA20Operational current leAC-1 (≤40°C)A20AC-1 (≤55°C)A18AC-3 (≤400×55°C)A12AC-4 (400V)A4.8Rated operational power AC-3 (T≤55°C)230VkW3.2415VkW6.24400VkW5.5500VkW5690VkW5Rated operational power AC-1 (T≤40°C)230VkW8400VkW16690VkW22IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R	Number of poles		Nr.	3
Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 20 Operational current le AC-1 (≤40°C) A 20 AC-1 (≤55°C) A 18 AC-1 (≤55°C) A 15 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-4 (400V) A 4.8 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 5.5 500V kW 5.6 S00V kW 5.5 500V kW 5 690V kW 16 690V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48 A 10 75V A 4 110V A 3 220V	Rated insulation voltage Ui IEC/EN		V	690
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated impulse withstand voltage Uimp		kV	6
max Hz 400 IEC Conventional free air thermal current lth A 20 Operational current le AC-1 (s40°C) A 20 AC-1 (s55°C) A 18 AC-1 (s50°C) A 12 AC-1 (s40v s55°C) A 12 AC-3 (s40v s55°C) A 12 AC-3 (s40v s55°C) A 12 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.5 S00V kW 5.5 500V kW 5 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 16 690V kW 16 690V kW 16 690V kW 12 48V 10 75V A 4 110V A 3 220V A 12 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 524V A 15 48V	Operational frequency			
IEC Conventional free air thermal current lth A 20 Operational current le AC-1 (s40°C) A 20 AC-1 (s55°C) A 18 AC-1 (s70°C) A 15 AC-3 (s4400 v 55°C) A 12 AC-4 (400V) A 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 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 Souv kW 16 690V kW 16 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 10 75V A 9 110V A 8 220V A 15 48V A 16 48V A 16 48V A 16 48V A 16 <td></td> <td>min</td> <td>Hz</td> <td>25</td>		min	Hz	25
Operational current le AC-1 (\$40°C) A 20 AC-1 (\$55°C) AC-1 (\$55°C) A 18 AC-1 (\$70°C) A 15 AC-3 (\$440V \$55°C) Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 3.2 400V Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 16 690V 8 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A IEC max current le in DC1 with L/R ≤ 1ms w		max	Hz	400
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC Conventional free air thermal current Ith		А	20
$\begin{array}{cccc} AC-1 (\pm 55^{\circ} C) & A & 18 \\ AC-1 (\pm 70^{\circ} C) & A & 15 \\ AC-3 (\pm 440 \lor 55^{\circ} C) & A & 12 \\ AC-4 (400 \lor 45^{\circ} C) & A & 4.8 \end{array}$ Rated operational power AC-3 (T≤55°C) $\begin{array}{c} 230 \lor & kW & 3.2 \\ 400 \lor & kW & 5.7 \\ 4115 \lor & kW & 6.2 \\ 440 \lor & kW & 5.5 \\ 500 \lor & kW & 5 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230 \lor & kW & 8 \\ 400 \lor & kW & 5 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230 \lor & kW & 8 \\ 400 \lor & kW & 14 \\ 500 \lor & kW & 16 \\ 690 \lor & k$	Operational current le			
$\begin{array}{cccc} AC-1 (\pm 55^{\circ} C) & A & 18 \\ AC-1 (\pm 70^{\circ} C) & A & 15 \\ AC-3 (\pm 440 \lor 55^{\circ} C) & A & 12 \\ AC-4 (400 \lor 45^{\circ} C) & A & 4.8 \end{array}$ Rated operational power AC-3 (T≤55°C) $\begin{array}{c} 230 \lor & kW & 3.2 \\ 400 \lor & kW & 5.7 \\ 4115 \lor & kW & 6.2 \\ 440 \lor & kW & 5.5 \\ 500 \lor & kW & 5 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230 \lor & kW & 8 \\ 400 \lor & kW & 5 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230 \lor & kW & 8 \\ 400 \lor & kW & 14 \\ 500 \lor & kW & 16 \\ 690 \lor & k$		AC-1 (≤40°C)	А	20
AC-1 (≤70°C) A 15 AC-3 (5440V ≤55°C) A 12 AC-4 (400V) A 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 8 400V kW 8 400V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 12 48V 10 75V A 110V A 3 220V A			А	18
AC-3 (≤440V) ≤55°C) A 12 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 400V kW 5.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A 16 48V A 16 <td></td> <td></td> <td></td> <td>15</td>				15
AC-4 (400V) A 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 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 14 690V kW 12 48V A 10 75V A 4 110V A 3 220V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A 16 75V A		. ,		
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 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 14 690V kW 14 500V kW 14 100 KW 14 10 10 10 10 10 10 10 10 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10			А	4.8
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Rated operational power AC-3 (T≤55°C)			
$ \begin{array}{cccc} 415 \lor & k \cr & 6.2 \\ 440 \lor & k \cr & 5.5 \\ 500 \lor & k \cr & 5 \\ \hline \\ 500 \lor & k \cr & 5 \\ \hline \\ \hline \\ 8 \\$		230V	kW	3.2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		400V	kW	5.7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		415V	kW	6.2
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 $≤24V$ A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A 16 48V A 16 75V A 16 48V A 16 75V 10		440V	kW	5.5
Rated operational power AC-1 (T≤40°C)230VkW8400VkW14500VkW16690VkW22IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A1248VA1075VA4110VA3220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A1548VA1475VA9110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A1648VA1675VA1648VA1675VA10		500V	kW	5
$\begin{array}{c} 230 \lor k \Downarrow 8 \\ 400 \lor k \Downarrow 14 \\ 500 \lor k \Downarrow 22 \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\begin{array}{c} \leq 24 \lor A & 12 \\ 48 \lor A & 10 \\ 75 \lor A & 4 \\ 110 \lor A & 3 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 10 \\ 75 \lor A & 4 \\ 110 \lor A & 3 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 14 \\ 75 \lor A & 9 \\ 110 \lor A & 8 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 14 \\ 75 \lor A & 9 \\ 110 \lor A & 8 \\ 220 \lor A & - \end{array}$		690V	kW	
$\begin{array}{c} 230 \lor k \Downarrow 8 \\ 400 \lor k \Downarrow 14 \\ 500 \lor k \Downarrow 22 \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\begin{array}{c} \leq 24 \lor A & 12 \\ 48 \lor A & 10 \\ 75 \lor A & 4 \\ 110 \lor A & 3 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 10 \\ 75 \lor A & 4 \\ 110 \lor A & 3 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 14 \\ 75 \lor A & 9 \\ 110 \lor A & 8 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 14 \\ 75 \lor A & 9 \\ 110 \lor A & 8 \\ 220 \lor A & - \end{array}$	Rated operational power AC-1 (T≤40°C)			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		230V	kW	8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		400V	kW	14
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A1248VA1075VA4110VA3220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A1548VA1475VA9110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A15IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A16 $48V$ A1648VA1675VA10		500V	kW	16
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		690V	kW	22
$ \begin{array}{ccccccc} 48V & A & 10 \\ 75V & A & 4 \\ 110V & A & 3 \\ 220V & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \\ & & & & & & \\ \hline & & & & & & \\ & & & &$	IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
$\begin{array}{cccc} 75 & A & 4 \\ 110 & A & 3 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series $\begin{array}{cccc} \leq 24 & A & 15 \\ 48 & A & 14 \\ 75 & A & 9 \\ 110 & A & 8 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\begin{array}{ccccc} \leq 24 & A & 16 \\ 48 & A & 14 \\ 75 & A & 9 \\ 110 & A & 8 \\ 220 & A & - \end{array}$		≤24V	А	12
$\begin{array}{c cccc} & 110 \lor & A & 3 \\ 220 \lor & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \\ & \leq 24 \lor & A & 15 \\ & 48 \lor & A & 14 \\ & 75 \lor & A & 9 \\ & 110 \lor & A & 8 \\ & 220 \lor & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series} \\ & \leq 24 \lor & A & 16 \\ & 48 \lor & A & 16 \\ & 48 \lor & A & 16 \\ & 75 \lor & A & 10 \end{array}$		48V	А	10
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	А	4
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series $\leq 24V$ A1548VA1475VA9110VA8220VA-IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\leq 24V$ A1648VA1675VA10		110V	А	3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		220V	А	-
$ \begin{array}{ccccc} 48 \mbox{V} & \mbox{A} & 14 \\ 75 \mbox{V} & \mbox{A} & 9 \\ 110 \mbox{V} & \mbox{A} & 8 \\ 220 \mbox{V} & \mbox{A} & - \\ \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R $\leq 1ms with 3 poles in series} \\ \hline \mbox{Series} \\ \hline Serie$	IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
$\begin{array}{c cccc} 75 & A & 9 \\ 110 & A & 8 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\begin{array}{c ccccccccccccccccccccccccccccccccccc$		≤24V	А	15
$\begin{tabular}{cccc} 110V & A & 8\\ 220V & A & -\\ \hline \end{tabular}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{tabular}{cccc} \leq 24V & A & 16\\ 48V & A & 16\\ 75V & A & 10\\ \hline \end{tabular}$		48V	А	14
$\begin{array}{c c} 220 & A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c c} \leq 24 & A & 16 \\ 48 & A & 16 \\ 75 & A & 10 \end{array}$		75V	А	9
IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\leq 24V$ A1648VA1675VA10		110V	А	8
≤24V A 16 48V A 16 75V A 10		220V	Α	
48V A 16 75V A 10	IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
75V A 10		≤24V	А	16
		48V	А	16
110V A 10		75V	А	10
		110V	А	10



11BG1201D012 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 12VDC, **INC AUXILIARY CONTACT**

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{cccc} 48 V & A & - \\ 75 V & A & - \\ 110 V & A & - \\ 220 V & A & - \\ \end{array} \\ \hline \mbox{IEC max current le in DC3-DC5 with L/R \le 15ms with 1 poles in series } \end{array} $	
$\begin{array}{ccc} 110 V & A & -\\ 220 V & A & -\\ \end{array}$ IEC max current le in DC3-DC5 with L/R < 15ms with 1 poles in series	
220V A $-IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series$	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	
≤24V A 7	
48V A 6	
75V A 2	
110V A 1	
220V A –	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	
≤24V A 8	
48V A 8	
75V A 5	
110V A 4	
220V A –	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	
≤24V A 10	
48V A 10	
75V A 6	
110V A 5	
220V A 0,8	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	
≤24V A –	
48V A –	
75V A –	
110V A –	
220V A –	
Short-time allowable current for 10s (IEC/EN60947-1) A 96	
Protection fuse	
gG (IEC) A 20	
aM (IEC) A 16	
Making capacity (RMS value) A 120	
Breaking capacity at voltage	
440V A 96	
500V A 72	
690V A 72	
Resistance per pole (average value) mΩ 10	
Power dissipation per pole (average value)	
Ith W 4	
AC3 W 1.44	
Tightening torque for terminals	
min Nm 0.8	

1 Nm max min Ibin 9 9 max lbin Tightening torque for coil terminal 0.8 min Nm max Nm 1 Ibin 9 min



11BG1201D012 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 12VDC, 1NC AUXILIARY CONTACT

Max augeben of the		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	22 01/		10
	Flowible w/o lug conductor costion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		min	mm²	2.5
	Flexible c/w lug conductor section	max	111111	2.0
	Flexible c/w lug conductor section	min	mm²	1.5
			mm²	2.5
	Elevible with insulated spade lug conductor section	max	111111	2.0
	Flexible with insulated spade lug conductor section	min	mm²	1.5
		max	mm²	2.5
		IIIdX	111111	IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				property wred
Operating position				
		normal		Vertical plan
		allowable		±30°
		anowable		Screw / DIN rai
Fixing				35mm
Weight			g	222
Conductor section			9	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	racteristics	max		
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	•			
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	:12			
		110V	А	2.9
Operating current DC	213			
		24V	А	2.9
		48V	A	1.4
		40V 60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	A	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
			0,000	
Safety related data				
Safety related data Performance level B ²	10d according to EN/ISO 13489-1			
	10d according to EN/ISO 13489-1	rated load	cycles	500000
	-	rated load	cycles	500000 2000000
Performance level B	me	rated load echanical load	cycles cycles	2000000
Performance level B	-		•	



11BG1201D012 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 12VDC,

1NC AUXILIARY CONTACT

DC roted control value				V	10
DC rated control voltage	je			V	12
DC operating voltage	pick-up				
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		тал	/000	110
			min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
Ŭ I			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			0
			min	ms	9
			max	ms	18
		Closing NC	min	ms	17
			max	ms	26
		Opening NC	Пал	1115	20
		opening No	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
		-	min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC	<u>-</u>		•
			min	ms	3
		Openiar NC	max	ms	5
		Opening NC	min	me	11
			max	ms ms	17
UL technical data				1113	.,
Full-load current (FLA)	for three-phase AC mo	otor			
			at 480V	А	11
			at 600V	A	11
Yielded mechanical pe	rformance				
	for single-phase AC r	notor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	notor			
			200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	7.5
			575/600V	HP	10

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ENERGY AND AUTOMATION

0				
General USE	Contactor			
	Contactor	AC current	А	20
Short-circuit protec	tion fuse. 600V		Λ	20
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
-		Fuse rating	A	30
	uxiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature	Operating topporature			
	Operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature	11104	0	170
		min	°C	-60
		max	°Č	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				
(0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.	(2.24") (2.24") (3.65 (8.75) (1.37") (1.37")	(1.73")	(228)	RF9 -7.6 -89.2 -(3.51")
Wiring diagrams	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Certifications and c Compliance	T1 T2 T3 compliance CSA C22.2 n° 60947-1 CSA C22.2 n° 60947-4-1			



11BG1201D012 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 12VDC, **1NC AUXILIARY CONTACT**

	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





Product designation			Power 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	max	A	20
Operational current le			20
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	12
	AC-4 (400V)	A	4.8
Rated operational power AC-3 (T≤55°C)	710 + (+001)	7.	4.0
	230V	kW	3.2
	400V	kW	5.7
	400V 415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	0001		Ū
	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	0001		
	≤24V	А	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		А	16
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	≤24V	A	16 16
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		A A A	16 16 10



11BG1201D024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, **1NC AUXILIARY CONTACT**

	220V	А	2	
IEC max current le in DC1 with $L/R \le 1$ ms 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 ≤ 15ms with 1 poles in series				
	≤24V	А	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	A	5	
	110V	A	4	
	220V	A	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
	≤24V	А	10	
	48V	A	10	
	75V	A	6	
	110V	A	5	
	220V	A	0,8	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	2201	7	0,0	
	≤24V	А	_	
	48V	A	_	
	48V 75V	A	_	
	110V	A	_	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	96	
Protection fuse		Λ	30	
FIOLECIIOTITUSE		А	20	
	gG (IEC) aM (IEC)	A	20 16	
Making consoity (DMS value)		A		
Making capacity (RMS value)		A	120	
Breaking capacity at voltage	4.4017	^	00	
	440V	A	96 72	
	500V	A	72 72	
	690V	A	72	
Resistance per pole (average value)		mΩ	10	
Power dissipation per pole (average value)	•.•			
	Ith	W	4	
	AC3	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	Nm	0.8	
	max	Nm	1	
	min	Ibin	9	

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11BG1201D024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT

		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	may		10
	Flovible w/e lug conductor costion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max	111111	2.0
	Flexible C/W lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max	111111	2.5
	Flexible with insulated space log conductor section	min	mm²	1.5
		max	mm²	2.5
		max	111111	IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				property wred
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Weight			g	222
Conductor section			9	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics	111001		
Thermal current Ith			А	10
EC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC				
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12	0001		
		110\/	Α	29
Operating current DC	13	110V	A	2.9
Operating current DC	13			
Operating current DC	13	24V	А	2.9
Operating current DC	13	24V 48V	A A	2.9 1.4
Operating current DC	13	24V 48V 60V	A A A	2.9 1.4 1.2
Operating current DC	13	24V 48V 60V 110V	A A A A	2.9 1.4 1.2 0.6
Operating current DC	13	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC	13	24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3
	13	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operations	13	24V 48V 60V 110V 125V 220V	A A A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	13	24V 48V 60V 110V 125V 220V	A A A A A A Cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life	13	24V 48V 60V 110V 125V 220V	A A A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A A Cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life Safety related data	13 10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000



11BG1201D024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC,

INC AUXILIARY CONTACT

DC roted control value				V	24
DC rated control voltage	je			V	24
DC operating voltage	nialeun				
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		IIIdx	/003	115
	arop our		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	_		4.0
			min	ms	12
		Opening NO	max	ms	21
		Opening NO	min	me	9
			min max	ms ms	9 18
		Closing NC	IIIdx	1113	10
		Closing No	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
		Closing NC	max	ms	3
			min	ms	3
			max	ms	5
		Opening NC	mux		-
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mo	otor			
			at 480V	А	11
			at 600V	А	11
Yielded mechanical pe					
	for single-phase AC r	notor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	iotor	000/0001		2
			200/208V	HP	3
			220/230V 460/480V	HP HP	3 7.5
			460/480V 575/600V	HP	10
			575/0000	LIF	

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ENERGY AND AUTOMATION

C3) = 12A	, DC COIL	, 24VDC,
1NC AU	XILIARY C	ONTACT

General USE				
	Contactor			
		AC current	А	20
Short-circuit protectio	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of auxi	liary contacts according to UL			A600 - Q600
Ambient conditions				1000 0000
Temperature				
remperature	Operating temperature			
		min	°C	-50
			°C	
	Charage torresting	max	U	+70
	Storage temperature			00
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.37") (0.33") (0.33") (0.33") (0.33") Wiring diagrams	57 (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.	(1.73") (1.73") (1.73") (1.73") (1.73") (1.37") (0.12" (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.12") (0.	(2.28°) S	57 .24") RF9
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Compliance	CSA C22.2 n° 60947-1			
	CSA C22.2 n° 60947-4-1			



11BG1201D024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, **1NC AUXILIARY CONTACT**

	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





Product designation			Power contactor with surge surpressor
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		А	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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \leq 1$ ms with 3 poles in series			
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		А	16
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	≤24V 48V	A A	16 16



11BG1201D024V120 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC,

1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

	110V	А	10
	220V	Α	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	-
	48V	А	-
	75V	А	-
	110V	А	-
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	_
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	(0.1) /		•
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	4
IFC may surrant to in DC2 DC5 with L/D < 15ms with 2 pales in series	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	<2417	٨	10
	≤24V 48V	A	10
	46V 75V	A A	10
	75V 110V	A	6 5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	220 V	~	0,0
120 max current le in $200-200$ with $273 = 1500$ with 4 poles in series	≤24V	А	_
	48V	A	_
	48V 75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	A	16
Making capacity (RMS value)	a (. <u> </u>	A	120
Breaking capacity at voltage			
	440V	А	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC3	W	1.44
Tightening torque for terminals			
	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

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11BG1201D024V120 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

		min	lbin	9
		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	0.75
		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
Power terminal prote	ction according to IEC/EN 60529			IP20 when
· · ·				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	222
Conductor section				
	AWG/kcmil conductor section			
A The second second second second		max		12
Auxiliary contact char	aciensiics		٨	4.0
Thermal current lth			A	10
IEC/EN 60947-5-1 de	*			A600 - Q600
Operating current AC	10	0001	^	0
		230V	A	3
		400∨ 500∨	A	1.9
		2007	А	1.4
On a ration of our and DC	40	0001		
Operating current DC	12		٨	2.0
		110V	A	2.9
Operating current DC		110V		
		110V 24V	A	2.9
		110V 24V 48V	A A	2.9 1.4
		110V 24V 48V 60V	A A A	2.9 1.4 1.2
		110V 24V 48V 60V 110V	A A A A	2.9 1.4 1.2 0.6
		110V 24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
		110V 24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		110V 24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC		110V 24V 48V 60V 110V 125V 220V	A A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life		110V 24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life		110V 24V 48V 60V 110V 125V 220V	A A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	213	110V 24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data	213 10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	213 10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	213 10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 500000 20000000 yes
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	213 10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level Br Mirror contats accord EMC compatibility	213 10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V rated load echanical load	A A A A A A Cycles cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 500000 20000000 yes yes

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11BG1201D024V120 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC,

1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

DC coil operating					
DC rated control voltage	ge			V	24
DC operating voltage	5				
	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				er vel e e //e	2000
Mechanical operation				cycles/h	3600
Operating times	antrol				
Average time for Us co	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO	max		
			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			0
			min	ms	2
		Closing NC	max	ms	3
			min	ms	3
			max	ms	5
		Opening NC	max		-
			min	ms	11
			max	ms	17
JL technical data					
Full-load current (FLA)	for three-phase A	AC motor			
. ,	-		at 480V	А	11
			at 600V	А	11
ielded mechanical pe	erformance				
	for single-phase	e 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

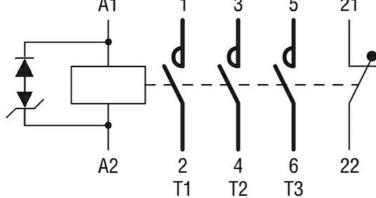
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11BG1201D024V120



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

			575/600V	HP	10	
General USE						
	Contactor					
			AC current	А	20	
Short-circuit protec	tion fuse, 600V					
·	High fault					
	5		Short circuit current	kA	100	
			Fuse rating	А	30	
			Fuse class		J	
	Standard fault				-	
			Short circuit current	kA	5	
			Fuse rating	A	30	
Contact rating of a	ixiliary contacts according to		i doo raang	7.		- Q600
Ambient conditions					7000	0000
Temperature						
remperature	Operating temperature					
	Operating temperature		min	°C	-50	
			min	°C O°		
	Otomo no tomo onotimo		max	U	+70	
	Storage temperature			° 0	00	
			min	°C	-60	
			max	°C	+80	
Max altitude				m	3000	
Resistance & Prote	ection				_	
Pollution degree					3	
Dimensions						
44 (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.			44 (1.73") (1.73") (0.12"	(2,28") 50	57 .24") RF9 89.2 (3.51")	
	L1 L2 A1 1 3	L3 5	21			



Certifications and compliance Compliance

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11BG1201D024V120 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

	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	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		

ETIM 8.0





Product designation Product type designation			Power contactor BG12
Contact characteristics			DOTZ
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		A	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	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	А	16
	75V	А	10
	110V	А	10



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, **1NC AUXILIARY CONTACT**

220V ≤24V 48V 75V	A A A	2
48V 75V		_
48V 75V		_
75V	Α	
		-
44014	А	_
110V	А	_
220V	А	_
≤24V	А	7
48V	А	6
75V	Α	2
110V	А	1
220V	А	_
≤24V	А	8
48V	А	8
75V	А	5
110V	А	4
220V	А	_
≤24V	А	10
48V	А	10
75V	А	6
110V	А	5
220V	А	0,8
≤24V	А	_
48V	А	_
75V	А	_
110V	А	_
220V	А	_
	А	96
gG (IEC)	А	20
		16
. ,	Α	120
	<pre>≤24V 48V 75V 110V 220V</pre> <24V 48V 75V 110V 220V <24V 48V 75V 110V 220V <24V 48V 75V 110V 220V	

	440V	А	96
	500V	А	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	1.44
Tightening torque for terminals			
	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

11BG1201D048



11BG1201D048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, 1NC AUXILIARY CONTACT

Mox number of using		max	lbin	9
Conductor section	simultaneously connectable		Nr.	2
Conductor Section	AWG/Kcmil			
	AWG/RCIIII	max		12
	Flexible w/o lug conductor section	IIIdA		12
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max		210
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	······································	min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				· · · ·
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	210
Conductor section			0	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	-			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	2.9
Operating current DC	13			
		24V	А	2.9
		48V	А	1.4
		60V	А	1.2
		110V	А	0.6
		125V	А	0.55
		220V	А	0.3
		600V	А	0.1
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
	me	chanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
				yes
EMC compatibility DC coil operating				J = =



11BG1201D048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC,

INC AUXILIARY CONTACT

DC rated control voltage V 48 DC operating voltage pick-up min %Us 75 drop-out min %Us 10 max %Us 25 Average coll consumption s20°C in-rush W 3.2 Max cycles treatmenty w 3.2 Average time for US control cycles/h 3600 Opening NO min ms 12 min ms 12 max ms 21 Opening NO min ms 17 max ms 26 Opening NC min ms 17 max ms 3 In DC Closing NC min ms 1 1 Opening NC min						40
pick-up min %Us 75 drop-out min %Us 115 drop-out min %Us 10 max %Us 25 Average coll consumption ≤20°C in-rush W 3.2 Max cycles frequency w 3.2 Mechanical operation cycles/h 3600 Operating times - - Average time for Us control - - in AC Closing NO max ms Qpening NO min ms 12 max ms 18 - Closing NC min ms 17 max ms 18 - Closing NC min ms 17 in DC Closing NO min ms 18 Gopening NO min ms 2 - Max ms 3 - - Opening NC min ms 3 <t< td=""><td></td><td>je</td><td></td><td></td><td>V</td><td>48</td></t<>		je			V	48
min %US 75 drop-out min %US 10 max %US 10 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 12 Opening NO min ms 12 Max cycles frequency max ms 12 Opening NO min ms 12 Opening NO min ms 16 Closing NC min ms 17 In DC Closing NO max ms 25 Opening NO max ms 3 3 Opening NO max ms 3 3 Opening NC min ms 3 3 Opening NC	DC operating voltage	niekun				
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 Machanical operation cycles/h 3600 Operating times		ріск-ир		min	% le	75
drop-out min %Us 10 Average coll consumption \$20°C in-rush W 3.2 Max cycles frequency we 3.2 holding W 3.2 Max cycles frequency cycles/h 3600 2000 Operating times cycles/h 3600 2000 Average time for Us control in AC min ms 12 Closing NO min ms 21 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 2000000 200000 2						
min %Us 10 max Average coll consumption ≤20°C in-rush in-rush W 3.2 Max cycles frequency W 3.2 Max cycles frequency W 3.2 Max cycles frequency W 3.2 Max cycles frequency cycles/h 3600 Operating times min ms Average time for Us control in AC min ms Closing NO min ms 9 max ms 18 10 Closing NC min ms 17 max ms 16 17 Opening NC min ms 17 max ms 18 10 Closing NC min ms 18 Max cycle data max ms 25 Opening NO min ms 25 Opening NO min ms 3 Closing NC min ms 3 Opening NC min		drop-out		max	/003	110
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Mechanical operation cycles/h 3600 Operating times				holding	W	3.2
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220/230V HP 3 460/480V HP 7.5		•		200/208V	HP	3
					HP	
575/600V HP 10						
				575/600V	HP	10

11BG1201D048 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



ENERGY AND AUTOMATION

INC AUXILIARY CONTACT

General USE				
	Contactor			
		AC current	Α	20
Short-circuit protectio	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of auxil	iary contacts according to UL			A600 - Q600
Ambient conditions	,			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°Č	+70
	Storage temperature	Пих	Ŭ	
	otorage temperature	min	°C	-60
		max	°C	+80
Max altitude		IIIdA	 	3000
Resistance & Protecti	ion		111	3000
Pollution degree				3
Dimensions				5
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Compliance				
	CSA C22.2 n° 60947-1			
	CSA C22.2 n° 60947-4-1			



11BG1201D048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, **1NC AUXILIARY CONTACT**

	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





Product type designation BG12 Contact characteristics				
Contact characteristicsNumber of polesNr. 3Rated insultation voltage UIEC/ENVRated insultation voltage UIEC/ENKVOperational frequencyminHz25maxHzHz400IEC Conventional frequencyA20AC-1 (≤40°C)A 20AC-1 (≤40°C)Operational current leAC-1 (≤40°C)AC-1 (≤50°C)AAC-1 (≤50°C)AAC-1 (≤50°C)AAC-3 (≤440V ≤55°C)AAC-3 (≤440V ≤55°C)AAC-4 (400V)AAAC-3 (T≤55°C)230VkWAC-4 (400V)KWAC-4 (40V)KWAC-4 (40V)KWAC-	Product designation			Power contactor
Number of polesNr.3Rated insulation voltage Ui IEC/ENV690Rated insulation voltage UimpKV6Operational frequencyminHz25maxHz40015IEC Conventional free air thermal current IthA20Operational current IeAC-1 (≤40°C)A20AC-1 (≤55°C)A18AC-1 (≤55°C)A18AC-3 (≤4400×555°C)A12AC-4 (400V)A4.8Rated operational power AC-3 (T≤55°C)230VkW3.2400VkW5.5SolovkW5.5500VkW5.5500VkW5.5Rated operational power AC-1 (T≤40°C)230VkW8400VkW16G90VkW16690VkW16690VkW16IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA1248VA10IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA1248VA14TOVA3200VA-110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA1548VA1475VA9110VA8220VA-1648VA1648VA1648VA1648VA1648VA1648VA	Product type designation			BG12
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 frequency A 20 Operational current le A 20 Operational current le A 20 AC-1 (555°C) A 15 AC-1 (555°C) A 12 AC-1 (4000) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 230V kW 5.5 500V kW 5 690V kW 5 690V kW 5 690V kW 8 400V kW 16 690V kW 16 690V kW 3 220 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series \$24V A 524V A 10 75V A	Contact characteristics			
Rated impulse withstand voltage UimpkV6Operational frequencyminHz25maxHz400400IEC Conventional current leA20Operational current leAC-1 (≤40°C)A20AC-1 (≤55°C)A18AC-3 (≤400×55°C)A12AC-4 (400V)A4.8Rated operational power AC-3 (T≤55°C)230VkW3.2415VkW6.24400VkW5.5500VkW5690VkW5Rated operational power AC-1 (T≤40°C)230VkW8400VkW16690VkW22IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA12C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA14C max current le in DC1 with L/R	Number of poles		Nr.	3
Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 20 Operational current le AC-1 (≤40°C) A 20 AC-1 (≤55°C) A 18 AC-1 (≤55°C) A 15 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-4 (400V) A 4.8 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 5.5 500V kW 5.6 S00V kW 5.5 500V kW 5 690V kW 16 690V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48 A 10 75V A 4 110V A 3 220V	Rated insulation voltage Ui IEC/EN		V	690
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated impulse withstand voltage Uimp		kV	6
max Hz 400 IEC Conventional free air thermal current lth A 20 Operational current le AC-1 (s40°C) A 20 AC-1 (s55°C) A 18 AC-1 (s50°C) A 12 AC-1 (s40v s55°C) A 12 AC-3 (s40v s55°C) A 12 AC-3 (s40v s55°C) A 12 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.5 S00V kW 5.5 500V kW 5 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 16 690V kW 16 690V kW 16 690V kW 12 48V 10 75V A 4 110V A 3 220V A 12 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 524V A 15 48V	Operational frequency			
IEC Conventional free air thermal current lth A 20 Operational current le AC-1 (s40°C) A 20 AC-1 (s55°C) A 18 AC-1 (s70°C) A 15 AC-3 (s4400 v 55°C) A 12 AC-4 (400V) A 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 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 Souv kW 16 690V kW 16 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 10 75V A 9 110V A 8 220V A 15 48V A 16 48V A 16 48V A 16 48V A 16 <td></td> <td>min</td> <td>Hz</td> <td>25</td>		min	Hz	25
Operational current le AC-1 (\$40°C) A 20 AC-1 (\$55°C) AC-1 (\$55°C) A 18 AC-1 (\$70°C) A 15 AC-3 (\$440V \$55°C) Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 3.2 400V Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 16 690V 8 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A IEC max current le in DC1 with L/R ≤ 1ms w		max	Hz	400
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC Conventional free air thermal current Ith		А	20
$\begin{array}{cccc} AC-1 (\pm 55^{\circ} C) & A & 18 \\ AC-1 (\pm 70^{\circ} C) & A & 15 \\ AC-3 (\pm 440 \lor 55^{\circ} C) & A & 12 \\ AC-4 (400 \lor 45^{\circ} C) & A & 4.8 \end{array}$ Rated operational power AC-3 (T≤55°C) $\begin{array}{c} 230 \lor & kW & 3.2 \\ 400 \lor & kW & 5.7 \\ 4115 \lor & kW & 6.2 \\ 440 \lor & kW & 5.5 \\ 500 \lor & kW & 5 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230 \lor & kW & 8 \\ 400 \lor & kW & 5 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230 \lor & kW & 8 \\ 400 \lor & kW & 14 \\ 500 \lor & kW & 16 \\ 690 \lor & k$	Operational current le			
$\begin{array}{cccc} AC-1 (\pm 55^{\circ} C) & A & 18 \\ AC-1 (\pm 70^{\circ} C) & A & 15 \\ AC-3 (\pm 440 \lor 55^{\circ} C) & A & 12 \\ AC-4 (400 \lor 45^{\circ} C) & A & 4.8 \end{array}$ Rated operational power AC-3 (T≤55°C) $\begin{array}{c} 230 \lor & kW & 3.2 \\ 400 \lor & kW & 5.7 \\ 4115 \lor & kW & 6.2 \\ 440 \lor & kW & 5.5 \\ 500 \lor & kW & 5 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230 \lor & kW & 8 \\ 400 \lor & kW & 5 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230 \lor & kW & 8 \\ 400 \lor & kW & 14 \\ 500 \lor & kW & 16 \\ 690 \lor & k$		AC-1 (≤40°C)	А	20
AC-1 (≤70°C) A 15 AC-3 (5440V ≤55°C) A 12 AC-4 (400V) A 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 8 400V kW 8 400V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 12 48V 10 75V A 110V A 3 220V A			А	18
AC-3 (≤440V) ≤55°C) A 12 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 400V kW 5.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A 16 48V A 16 <td></td> <td></td> <td></td> <td>15</td>				15
AC-4 (400V) A 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 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 14 690V kW 12 48V A 10 75V A 4 110V A 3 220V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A 16 75V A		. ,		
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 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 14 690V kW 14 500V kW 14 100 KW 14 10 10 10 10 10 10 10 10 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10 10 14 10			А	4.8
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Rated operational power AC-3 (T≤55°C)			
$ \begin{array}{cccc} 415 \lor & k \cr & 6.2 \\ 440 \lor & k \cr & 5.5 \\ 500 \lor & k \cr & 5 \\ \hline \\ 500 \lor & k \cr & 5 \\ \hline \\ \hline \\ 8 \\$		230V	kW	3.2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		400V	kW	5.7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		415V	kW	6.2
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 $\leq 24V$ A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A 15 48V A 9 110V A 8 220V A - 2 2 2 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A 16 48V A 16 <td< td=""><td></td><td>440V</td><td>kW</td><td>5.5</td></td<>		440V	kW	5.5
Rated operational power AC-1 (T≤40°C)230VkW8400VkW14500VkW16690VkW22IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A1248VA1075VA4110VA3220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A1548VA1475VA9110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A1648VA1675VA1648VA1675VA10		500V	kW	5
$\begin{array}{c} 230 \lor k \Downarrow 8 \\ 400 \lor k \Downarrow 14 \\ 500 \lor k \Downarrow 22 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 1 poles in series $\begin{array}{c} \leq 24 \lor A & 12 \\ 48 \lor A & 10 \\ 75 \lor A & 4 \\ 110 \lor A & 3 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 10 \\ 75 \lor A & 4 \\ 110 \lor A & 3 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 14 \\ 75 \lor A & 9 \\ 110 \lor A & 8 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 14 \\ 75 \lor A & 9 \\ 110 \lor A & 8 \\ 220 \lor A & - \end{array}$		690V	kW	
$\begin{array}{c} 230 \lor k \Downarrow 8 \\ 400 \lor k \Downarrow 14 \\ 500 \lor k \Downarrow 22 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 1 poles in series $\begin{array}{c} \leq 24 \lor A & 12 \\ 48 \lor A & 10 \\ 75 \lor A & 4 \\ 110 \lor A & 3 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 10 \\ 75 \lor A & 4 \\ 110 \lor A & 3 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 14 \\ 75 \lor A & 9 \\ 110 \lor A & 8 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c} \leq 24 \lor A & 15 \\ 48 \lor A & 14 \\ 75 \lor A & 9 \\ 110 \lor A & 8 \\ 220 \lor A & - \end{array}$	Rated operational power AC-1 (T≤40°C)			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		230V	kW	8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		400V	kW	14
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A1248VA1075VA4110VA3220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A1548VA1475VA9110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A15IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A16 $48V$ A1648VA1675VA10		500V	kW	16
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		690V	kW	22
$ \begin{array}{ccccccc} 48V & A & 10 \\ 75V & A & 4 \\ 110V & A & 3 \\ 220V & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \\ & & & & & & \\ \hline & & & & & & \\ & & & &$	IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
$\begin{array}{cccc} 75 & A & 4 \\ 110 & A & 3 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series $\begin{array}{cccc} \leq 24 & A & 15 \\ 48 & A & 14 \\ 75 & A & 9 \\ 110 & A & 8 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\begin{array}{ccccc} \leq 24 & A & 16 \\ 48 & A & 14 \\ 75 & A & 9 \\ 110 & A & 8 \\ 220 & A & - \end{array}$		≤24V	А	12
$\begin{array}{c cccc} & 110 \lor & A & 3 \\ 220 \lor & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \\ & \leq 24 \lor & A & 15 \\ & 48 \lor & A & 14 \\ & 75 \lor & A & 9 \\ & 110 \lor & A & 8 \\ & 220 \lor & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series} \\ & \leq 24 \lor & A & 16 \\ & 48 \lor & A & 16 \\ & 48 \lor & A & 16 \\ & 75 \lor & A & 10 \end{array}$		48V	А	10
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	А	4
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series $\leq 24V$ A1548VA1475VA9110VA8220VA-IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\leq 24V$ A1648VA1675VA10		110V	А	3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		220V	А	-
$ \begin{array}{ccccc} 48 \mbox{V} & \mbox{A} & 14 \\ 75 \mbox{V} & \mbox{A} & 9 \\ 110 \mbox{V} & \mbox{A} & 8 \\ 220 \mbox{V} & \mbox{A} & - \\ \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R $\leq 1ms with 3 poles in series} \\ \hline \mbox{Series} \\ \hline Serie$	IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
$\begin{array}{c cccc} 75 & A & 9 \\ 110 & A & 8 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\begin{array}{c ccccccccccccccccccccccccccccccccccc$		≤24V	А	15
$\begin{tabular}{cccc} 110V & A & 8\\ 220V & A & -\\ \hline \end{tabular}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{tabular}{cccc} \leq 24V & A & 16\\ 48V & A & 16\\ 75V & A & 10 \end{tabular}$		48V	А	14
$\begin{array}{c c} 220 & A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c c} \leq 24 & A & 16 \\ 48 & A & 16 \\ 75 & A & 10 \end{array}$		75V	А	9
IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\leq 24V$ A1648VA1675VA10		110V	А	8
≤24V A 16 48V A 16 75V A 10		220V	Α	
48V A 16 75V A 10	IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
75V A 10		≤24V	А	16
		48V	А	16
110V A 10		75V	А	10
		110V	А	10



11BG1201D060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 60VDC, INC AUXILIARY CONTACT

	220V	А	2
EC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	-
	48V	Α	-
	75V	А	-
	110V	А	-
	220V	Α	-
EC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	Α	7
	48V	А	6
	75V	Α	2
	110V	Α	1
	220V	А	-
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	А	_
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	_
	220V	А	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	А	16
Making capacity (RMS value)	· · · · ·	Α	120
Breaking capacity at voltage			
	440V	А	96
	500V	A	72
	690V	A	72

	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9



11BG1201D060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 60VDC, 1NC AUXILIARY CONTACT

Maria		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	may		12
	Flexible w/o lug conductor section	max		12
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	Шах		2.0
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	· · · · · · · · · · · · · · · · · · ·	min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	228
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	2.9
Operating current DC	13			
		24V	А	2.9
		48V	А	1.4
		60V	А	1.2
		110V	А	0.6
		125V	А	0.55
		220V	Α	0.3
		600V	A	0.1
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1		_	
		rated load	cycles	500000
		echanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				



11BG1201D060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 60VDC,

1NC AUXILIARY CONTACT

DC roted control voltage	10			V	60
DC rated control voltage	je			V	60
DC operating voltage	pick-up				
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		max	/000	
			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	aa			
		Closing NO			40
			min	ms	12
		Oponing NO	max	ms	21
		Opening NO	min	ms	9
			max	ms	9 18
		Closing NC	Пах	mo	10
			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			0
			min	ms	2
		Closing NC	max	ms	3
			min	ms	3
			max	ms	5
		Opening NC			-
		1 0 -	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mo	otor			
			at 480V	А	11
			at 600V	Α	11
Yielded mechanical pe					
	for single-phase AC r	notor			<u>م -</u>
			110/120V	HP	0.5
	for three phases AQ	otor	230V	HP	1.5
	for three-phase AC m	IOIOF	200/2001	HP	3
			200/208V 220/230V	HP HP	3
			460/480V	HP	3 7.5
			575/600V	HP	10
			010/000		

11BG1201D060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



ENERGY AND AUTOMATION

(AC3) =	12A, DC COIL	, 60VDC,
1NC	AUXILIARY C	ONTACT

General USE				
	Contactor			
		AC current	Α	20
Short-circuit protectio	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of auxil	iary contacts according to UL			A600 - Q600
Ambient conditions	,			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°Č	+70
	Storage temperature	Пах	<u> </u>	
	etorago tomporaturo	min	°C	-60
		max	°C	+80
Max altitude		IIIdX	 	3000
Resistance & Protecti	ion		111	3000
	1011			3
Pollution degree Dimensions				3
44 44				
4.4 (0.17") (0.17") (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")	57 (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24") (2.24")		(2.28") 5 (2.28") 5 (2.28") 5	57 _24")
A1 A1 A2 T Certifications and con	$ \begin{bmatrix} 1 & 3 & 5 & 21 \\ - & 4 & 4 & - & - & - & - \\ 2 & 4 & 6 & 22 \\ 1 & T2 & T3 & - & - & - \\ \end{bmatrix} $			
Compliance				
	CSA C22.2 n° 60947-1			
	CSA C22.2 n° 60947-4-1			



11BG1201D060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 60VDC, **1NC AUXILIARY CONTACT**

	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





			•
Product designation			Power 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			•
operational nequency	min	Hz	25
		Hz	400
IEC Conventional free air thermal current Ith	max	A	20
		A	20
Operational current le			00
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	A	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	А	12
	48V	A	10
	46V 75V	A	4
	110V	A	3
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201	Л	
The max current le in Det with E/K 3 mis with 2 poles in series	<241/	۸	1 5
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		_	
	≤24V	A	16
	48V	А	16
	75V	А	10
	110V	А	10



11BG1201D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC,

1NC AUXILIARY CONTACT

	220V	۸	2
	2201	A	Ζ
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		_	
	≤24V	A	_
	48V	А	_
	75V	А	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	2201	~~~~	
TEC max current le in DC3-DC3 with E/IX 3 13ms with 2 poles in series	≤24V	^	0
		A	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	10
	48V	Α	10
	75V	А	6
	110V	А	5
	220V	А	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			-,-
	≤24V	А	_
	48V	A	
	48V 75V	A	_
	110V		-
		A	-
	220V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	Α	16
Making capacity (RMS value)		Α	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)			
i over alcopation per pole (average value)	lth	W	4
		W	
Ticktoning to you to you'r -l-	AC3	٧V	1.44
Tightening torque for terminals			0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



11BG1201D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, 1NC AUXILIARY CONTACT

Nov pupph an of the		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AvvG/Kcmii	may		12
	Elevible w/e lug conductor acetion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	Шал		2.0
	The sible c/wing conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	Шах		2.0
	The side with insulated space by conductor section	min	mm²	1.5
		max	mm²	2.5
		Шах		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
operating peerier		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Weight			g	213
Conductor section			Ū	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
			A A	1.9 1.4
Operating current DC	12	400V		
Operating current DC	12	400V		
		400V 500V	A	1.4
Operating current DC Operating current DC		400V 500V	A	1.4
		400V 500V 110V	A	1.4 2.9
		400V 500V 110V 24V	A A A	1.4 2.9 2.9
		400V 500V 110V 24V 48V	A A A A	1.4 2.9 2.9 1.4
		400V 500V 110V 24V 48V 60V	A A A A A	1.4 2.9 2.9 1.4 1.2
		400V 500V 110V 24V 48V 60V 110V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6
		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	1.4 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data	13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data	13 IOd according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	13 IOd according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000



11BG1201D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC,

1NC AUXILIARY CONTACT

					440
DC rated control voltage	je			V	110
DC operating voltage					
	pick-up			0/11-	75
			min	%Us %Us	75
	drap out		max	%US	115
	drop-out		min	%Us	10
			max	%Us	25
Average coil consump	tion <20°C		IIIdx	/003	25
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency			Holding		0.2
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
5	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			10
			min	ms	18
			max	ms	25
		Opening NO			0
			min	ms	2
		Closing NC	max	ms	3
			min	ms	3
			max	ms	5
		Opening NC	max	1113	v
			min	ms	11
			max	ms	17
UL technical data					
	for three-phase AC mo	otor			
- (-)			at 480V	А	11
			at 600V	А	11
Yielded mechanical pe	erformance				
·	for single-phase AC r	notor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	notor			
			200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	7.5
			575/600V	HP	10

11BG1201D110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



ENERGY AND AUTOMATION

General USE				
	Contactor			
		AC current	A	20
Short-circuit protect	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			-
		Short circuit current	kA	5
		Fuse rating	A	30
Contact rating of au	xiliary contacts according to UL	T use failing	A	A600 - Q600
Ambient conditions				A000 - Q000
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ction			
Pollution degree				3
Dimensions				-
44 (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.		44 (1.73")	28" 2.28") 5	57 .24") RF9
A1 A1 A2 Certifications and c	L1 L2 L3 d = d = d = d = d = d = d = d = d = d =			
Compliance				
	CSA C22.2 n° 60947-1			



11BG1201D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, **1NC AUXILIARY CONTACT**

	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





			•
Product designation			Power 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	max	A	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	12
	AC-4 (400V)	A	4.8
Rated operational power AC-3 (T≤55°C)	7.0 1 (1007)		
	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	A	10
	75V	A	4
	110V	А	3
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	A	16
	46V 75V	A	10
	110V	A	10
	1101		



THREE-POLE CONTA **1NC AUXILIARY CONTACT**

	11BG12	01D125
ACTOR, IEC OPERATING CURRENT IE (AC3) = 12A,	DC COIL,	125VDC,

	0001/		0
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	220V	A	2
	≤24V	А	
	48V	A	_
	48V 75V	A	_
	110V	A	_
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	7
	48V	A	6
	75V	A	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 \leq 15ms 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	А	-
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)		Α	120
Breaking capacity at voltage			
	440V	А	96
	500V	А	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC3	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			
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	min max min	Nm Nm Ibin	0.8 1 9



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 mm² mm² 2.5 max Flexible c/w lug conductor section 1.5 min mm² max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 min mm² 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 А 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< ms		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 16 Closing NC min ms 17 Max ms 18 10 11 Max ms 18 10 11 Opening NO min ms 25 11 Opening NC mix ms 3 11	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 13 Opening NO 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 tretenicial data					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								
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Image: Market of the second				min	me	12		
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$\begin{tabular}{ c c c c c } & & & & & & & & & & & & & & & & & & &$								
$\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$			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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 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		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$			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		
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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	101	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			
575/600V HP 10								
				575/600V	HP	10		



ENERGY AND AUTOMATION

General USE				
	Contactor			
		AC current	А	20
Short-circuit protection	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			_
		Short circuit current	kA	5
Contract ration of any	lien, contesta concelina to LU	Fuse rating	A	30
Ambient conditions	iliary contacts according to UL			A600 - Q600
Temperature				
remperature	Operating temperature			
	opolating tompolatero	min	°C	-50
		max	°Č	+70
	Storage temperature		-	
	~	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (°. 57	(1.73") (1.73")	(2	57
(0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18) (0.18)	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	* * * * *	58 (2.28") 50	RF9
Wiring diagrams	L1 L2 L3			
A1	L1 L2 L3 1 3 5 21			
	d ,d , d ↓			
A2 Certifications and co	2 4 6 22 F1 T2 T3			
Compliance				
Compilation	CSA C22.2 n° 60947-1 CSA C22.2 n° 60947-4-1			
11BG1201D125 The charact	eristics described in this document are subject to upda	tes or modifications at any time. The description	s, technical	and 5/6
functional in	formation, illustrations and instructions in this brochure	are purely illustrative, and are consequently not	contractual	iy binding



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

	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





Product designation			Power 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		ΓV	0
Operational nequency	min		25
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le		_	
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
А	C-3 (≤440V ≤55°C)	А	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	А	12
	48V	A	10
	40V 75V	A	4
	110V	A	3
	220V	A	5
IEC may aurrent le in DC1 with L/R < 1ma with 2 pales in series	220 V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	<0.011		4 5
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
I = 0 as a summary the important in $D = 0$ with $I = 0$ and $I = 0$ in the second			
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		۸	16
The current is in DC1 with $L/R \le 1$ ms with 3 poiss in series	≤24V	Α	
The current is in DC1 with $L/R \le 1$ ms with 3 poles in series	48V	A	16
The current is in DC1 with $L/R \le 1$ ms with 3 poles in series			



11BG1201D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC,

1NC AUXILIARY CONTACT

	0001/		0
	220V	A	2
IEC max current le in DC1 with $L/R \le 1$ ms 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 \leq 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	2201		
	≤24V	А	10
	48V	A	10
	46 V 75 V	A	6
	110V	A	5
	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2200	A	0,8
The max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<241	^	
	≤24V	A	_
	48V	A	-
	75V	A	-
	110V	A	-
	220V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	A	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)			
	Ith	W	4
	AC3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal	тих		~
	min	Nm	0.8
	max	Nm	1
		Ibin	9
	min	חוטו	J



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC, 1NC AUXILIARY CONTACT

11BG1201D220

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 mm² mm² 2.5 max Flexible c/w lug conductor section 1.5 min mm² max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 min mm² 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 220 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



11BG1201D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC,

1NC AUXILIARY CONTACT

DC roted control value				V	220
DC rated control voltage	je			V	220
DC operating voltage	pick-up				
	ρισκ-αρ		min	%Us	75
			max	%Us	115
	drop-out		Пах	/000	
			min	%Us	10
			max	%Us	25
Average coil consumption	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			10
			min	ms	12
		Opening NO	max	ms	21
			min	ms	9
			max	ms	18
		Closing NC	Пах	mo	10
		clocking ite	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			2
			min	ms	2
		Closing NC	max	ms	3
			min	ms	3
			max	ms	5
		Opening NC	max		-
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mo	otor			
			at 480V	А	11
			at 600V	Α	11
Yielded mechanical pe					
	for single-phase AC n	notor			~ -
			110/120V	HP	0.5
	for three share AC	otor	230V	HP	1.5
	for three-phase AC m	OLOF	200/2001	ЦБ	2
			200/208V 220/230V	HP HP	3 3
			460/480V	HP	3 7.5
			575/600V	HP	10
			010/000		

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ENERGY AND AUTOMATION

General USE				
	Contactor			
		AC current	А	20
Short-circuit protect				
	High fault			
		Short circuit current	kA	100 30
		Fuse rating Fuse class	A	30 J
	Standard fault	1 450 51455		0
		Short circuit current	kA	5
		Fuse rating	А	30
	xiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°Č	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude Resistance & Prote	otion		m	3000
Pollution degree				3
Dimensions				0
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11BG1201D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT**

	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