



| 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. | (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. | (1.73") (1.73") (1.73") (1.73") (1.73") (1.37") (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 |

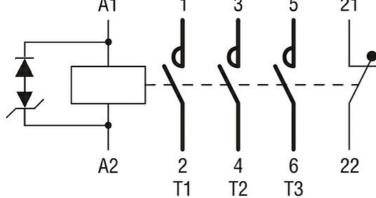
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11BG1201D024V120



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. | | | 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 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 |
| max %Us 25 Average coil consumption ≤20°C in-rush holding W 3.2 holding Max cycles frequency v 3.2 Max cycles frequency max ms 12 Max cycles frequency min ms 12 Max cycles frequency min ms 12 Opening NO min ms 17 In DC Closing NC min ms 25 Opening NO min ms 3 3 Opening NC min ms 3 3 | | | | min | %Us | 10 |
| Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 | | | | | | |
| in-rush W 3.2 Max cycles frequency we 3.2 Mechanical operation cycles/h 3600 Operating times we are get time for Us control in AC Closing NO min ms 12 Opening NO min ms 12 Opening NO min ms 13 Closing NC min ms 17 Opening NC min ms 17 Opening NC min ms 17 Opening NC min ms 17 Max ms 18 17 Opening NC min ms 17 Max ms 17 18 Opening NO max ms 17 In DC Closing NO max ms 25 Opening NO max ms 3 3 Opening NC min ms 3 3 Opening NC min ms 3 | Average coil consumpt | tion ≤20°C | | | | |
| Max cycles frequency cycles/h 3600 Average time for Us control in AC in AC min ms 12 Opening NO min ms 21 Opening NO min ms 12 Opening NO min ms 13 Closing NC min ms 17 max ms 16 17 Opening NC min ms 7 max ms 17 17 Opening NC min ms 7 in DC Closing NO min ms 7 Opening NO min ms 25 17 Opening NO min ms 3 16 Opening NO min ms 3 1 Opening NC m | | | | in-rush | W | 3.2 |
| 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 max ms Closing NC min ms Opening NC min max ms Opening NC min max ms In DC Closing NO Closing NO min max ms Opening NO min max ms Opening NO min max ms Opening NO max max ms Opening NC max max <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | |
| 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 max ms 7 17 in DC Closing NO min ms 7 Closing NO max ms 25 17 Opening NO max ms 3 16 Opening NO max ms 3 16 Opening NO max ms 3 16 Opening NC max ms 3 16 Opening NC max ms 3 16 Opening NC max ms 17 16 Opening NC max ms 17 17 Opening NC max ms 17 | | | | | cycles/h | 3600 |
| in AC Closing NO max ms 21 Opening NO max ms 21 Opening NO max ms 18 Closing NC max ms 26 Opening NC min ms 7 max ms 17 max ms 17 in DC Closing NO 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 data Full-load current (FLA) for three-phase AC motor Full-load Current (FLA) for three-phase AC motor Full-full-full-full-full-full-full-full- | | | | | | |
| 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 7 16 Opening NC min ms 7 max ms 7 17 in DC min ms 18 Closing NO min ms 18 max ms 25 16 Opening NO min ms 25 Opening NC min ms 3 Closing NC min ms 3 Opening NC min ms 3 Opening NC min ms 11 Max ms 12 12 12 Opening NC max ms 12 | Average time for Us co | | | | | |
| min ms 12 Opening NO min ms 9 max ms 18 Closing NC min ms 17 Opening NC min ms 7 max ms 17 Opening NC min ms 7 max ms 17 in DC Closing NO min ms 18 Opening NO min ms 17 in DC Closing NO max ms 18 Opening NO min ms 25 17 Opening NO max ms 3 16 Closing NC min ms 3 16 Opening NC min ms 3 17 Ut technical data ms 11 11 11 Yielded mechanical performance min ms 11 11 Yielded mechanical performance 100/120V HP 0.5 <t< td=""><td></td><td>IN AC</td><td></td><td></td><td></td><td></td></t<> | | IN AC | | | | |
| Image: Market of the second | | | Closing NO | | m a | 10 |
| $\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$ | | | | | | |
| min ms 9 Closing NC min ms 18 Opening NC min ms 17 max ms 26 Opening NC min ms 7 max ms 17 in DC Closing NO min ms 17 Opening NO min ms 18 Max ms 25 0 Opening NO min ms 25 Opening NC min ms 3 Closing NC min ms 3 Opening NC min ms 3 Opening NC min ms 11 Max ms 17 11 UL technical data min ms 11 Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance for three-phase AC motor 200/208V HP 0.5 230V HP 1.5< | | | | max | 1115 | <u>ک</u> ا |
| Imax max ms 18 Closing NC min ms 17 max ms 7 max ms 17 in DC min ms 17 in DC Closing NO min ms 17 in DC Closing NO min ms 25 Opening NO min ms 25 Opening NO min ms 2 Closing NC min ms 2 Opening NC min ms 3 Max ms 5 0 Opening NC min ms 11 Max ms 17 11 UL technical data min ms 11 Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance for three-phase AC motor 110/120V HP 0.5 200/208V HP 3.5 200/208V HP 3 | | | | min | ms | 9 |
| Closing NC min ms 17 Max ms 7 max ms 7 Max ms 7 max ms 17 in DC Closing NO min ms 17 in DC Closing NO min ms 18 Opening NO min ms 25 Opening NO min ms 21 Max ms 3 11 Closing NC min ms 3 Closing NC min ms 3 Max ms 5 11 Opening NC max ms 17 UL technical data ms 11 11 Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance ms 11 1.5 for three-phase AC motor 200/208V HP 0.5 200/208V HP 3. 200/208V | | | | | | |
| $\begin{tabular}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $ | | | Closing NC | | | |
| Opening NC min ms 7 in DC Closing NO max ms 17 in DC Closing NO min ms 18 Opening NO min ms 25 Opening NO min ms 21 Max ms 3 3 Closing NC min ms 3 Closing NC min ms 3 Closing NC min ms 3 Opening NC min ms 11 Visitedad current (FLA) for three-phase AC motor min ms 11 Yielded mechanical performance at 480V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 200/208V HP 3 460/480V HP 3 460/480V HP 3 | | | 0 | min | ms | 17 |
| min ms 7 in DC Closing NO min ms 17 in DC Closing NO min ms 18 max ms 25 0 max ms 25 Opening NO min ms 2 max ms 3 Closing NC min ms 3 max ms 5 Opening NC min ms 11 max ms 17 UL technical data max ms 17 max ms 17 VL technical data max ms 11 max ms 17 VL technical data max ms 11 max ms 17 Vielded mechanical performance at 480V A 11 11 11 Yielded mechanical performance for three-phase AC motor 110/120V HP 0.5 230V HP 1.5 for three-phase AC motor 200/208V HP | | | | 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 11 max ms 11 VL technical data min ms 11 max ms 11 Yielded mechanical performance for single-phase AC motor at 600V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 1.5 1.5 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 | | | Opening NC | | | |
| in DC Closing NO min ms 18 Max ms 25 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 Closing NC min ms 11 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 230V HP 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 <td></td> <td></td> <td></td> <td>min</td> <td>ms</td> <td></td> | | | | min | ms | |
| $\begin{tabular}{c} Closing NO \\ & & & & & & & & & & & & & & & & & & $ | | | | max | ms | 17 |
| min ms 18 max ms 25 Opening NO min ms 2 max ms 2 max ms 3 Closing NC min ms 3 max ms 5 Opening NC min ms 11 max ms 17 UL technical data min ms 11 max ms 17 VL technical data min ms 11 max 17 VL technical data ms 11 max ms 11 Yielded nechanical performance at 480V A 11 Yielded mechanical performance ms 110 11 Yielded mechanical performance ms 1.5 1.5 1.5 for three-phase AC motor ms 200/208V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 20/230V HP <td< td=""><td></td><td>in DC</td><td></td><td></td><td></td><td></td></td<> | | in DC | | | | |
| Max ms 25 Opening NO min ms 2 max ms 3 Closing NC min ms 3 Max ms 3 3 Opening NC min ms 3 Max ms 11 3 Max Max 11 3 Max Max 11 3 Max Max 11 3 Max Max 11 1 Max Max 11 | | | Closing NO | | 100.0 | 10 |
| Opening NO min ms 2 max ms 3 Closing NC min ms 3 Opening NC min ms 3 Opening NC min ms 3 Opening NC min ms 11 Max ms 11 max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance at 480V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 1.5 1.5 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | IIIdX | 1115 | 25 |
| $\begin{array}{c} & \begin{array}{c} & max & ms & 3 \\ & min & ms & 3 \\ & max & ms & 3 \\ & max & ms & 3 \\ & max & ms & 5 \\ \hline \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ \hline \\ \hline$ | | | opening No | min | ms | 2 |
| Closing NC min ms 3 max ms 5 Opening NC min ms 11 max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance for single-phase AC motor Yielded mechanical performance for single-phase AC motor Yielded mechanical performance for single-phase AC motor 200/208V HP 0.5 200/208V HP 3 460/480V HP 7.5 | | | | | | |
| min ms 3 max ms 5 Opening NC min ms 11 max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V HP 3 460/480V HP 7.5 | | | Closing NC | | | |
| Main min ms 11 max ms 17 UL technical data x x Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance at 600V A 11 Yielded mechanical performance result 110/120V HP 0.5 gaov HP 1.5 11 15 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V HP 3 460/480V HP 7.5 15 15 | | | Ū | min | ms | 3 |
| min ms 11 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 for single-phase AC motor I10/120V HP 0.5 230V HP 1.5 for three-phase AC motor I10/200V HP 3 220/208V HP 3 460/480V HP 3 | | | | 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 480V A 11 The second of | | | | | | |
| 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 | 17 |
| 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 AQ | ator | | | |
| 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 | Full-load current (FLA) | tor three-phase AC mo | NOF | at 4001/ | ۸ | 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 ne | rformance | | ai 000V | ~ | 11 |
| 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 | noidea meenanicai pe | | 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 | otor | | | |
| 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 |
| (0.17") (0.18") (0. | 57 (2.24") (2. | | (2.28") 5 | RF9 |
| A1 A1 A2 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 | | | |



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. | | 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 | | | | | | | | |
| Closing NO max ms 12 Max ms 21 Opening NO max ms 9 max ms 18 Closing NC min ms 16 Max ms 17 Opening NC max ms 26 Max ms 7 max ms 7 max ms 7 max ms 7 max ms 17 max ms 7 max ms 18 Opening NO max ms 25 Opening NO max ms 3 Closing NC max ms 3 Closing NC max ms 3 Opening NC max ms 3 Opening NC max ms 11 Max ms 12 12 12 Opening NC max </td <td>Average time for Us co</td> <td></td> <td></td> <td></td> <td></td> <td></td> | Average time for Us co | | | | | | | |
| min ms 12 Opening NO min ms 9 max ms 18 Closing NC min ms 17 Opening NC min ms 7 Opening NC min ms 7 max ms 17 In DC Closing NO min ms 17 In DC Closing NO min ms 25 Opening NO min ms 25 Opening NO min ms 3 Closing NC min ms 3 Opening NC min ms 3 Opening NC min ms 3 Opening NC min ms 11 UL technical data min ms 11 Full-load current (FLA) for three-phase AC motor min ms 11 Yielded mechanical performance for three-phase AC motor 230V HP 3.5 for three-phase | | IN AC | | | | | | |
| Image: Market of the second | | | | min | me | 12 | | |
| $\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$ | | | | | | | | |
| min ms 9 Closing NC min ms 18 Opening NC min ms 17 max ms 26 Opening NC min ms 7 max ms 17 in DC Closing NO min ms 17 Opening NO min ms 18 Max ms 25 0 Opening NO min ms 25 Opening NO min ms 3 Closing NC min ms 3 Opening NC min ms 3 Opening NC min ms 11 Max ms 17 11 UL technical data tat 800V A 11 Yielded mechanical performance at 480V A 11 Yielded mechanical performance tat 800V A 11 Yielded mechanical performance 200/208V HP 0.5 | | | Openina NO | max | | | | |
| $\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$ | | | | min | ms | 9 | | |
| $\begin{tabular}{ c c c c c } & & & & & & & & & & & & & & & & & & &$ | | | | | | | | |
| $\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$ | | | Closing NC | | | | | |
| Opening NC min ms 7 in DC Closing NO 17 in DC Closing NO min ms 18 Opening NO min ms 25 Opening NO min ms 2 Max ms 3 Closing NC min ms 3 Closing NC min ms 3 Opening NC min ms 3 Vielded current (FLA) for three-phase AC motor min ms 11 Yielded mechanical performance for single-phase AC motor at 480V A 11 Yielded mechanical performance 200/208V HP 0.5 230V HP 1.5 10 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V 460/480V HP 7.5 3 | | | | min | ms | 17 | | |
| min ms 7 in DC Closing NO min ms 17 in DC Closing NO min ms 18 max ms 25 0 | | | | max | ms | 26 | | |
| max ms 17 in DC Closing NO min ms 18 max ms 25 0 min ms 25 Opening NO min ms 2 max ms 3 Closing NC min ms 3 max ms 5 Opening NC min ms 5 max ms 11 VL technical data min ms 11 max ms 11 Yielded mechanical performance for single-phase AC motor at 480V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 1.5 1.5 1.5 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 | | | Opening NC | | | | | |
| in DC Closing NO min ms 18 Max ms 25 Opening NO min ms 2 Max ms 3 Closing NC min ms 3 Max ms 5 0 Opening NC min ms 3 Max ms 11 max ms 17 UL technical data min ms 11 max ms 17 UL technical data min ms 11 max ms 17 UL technical data max ms 11 max 11 Yielded mechanical performance at 600V A 11 Yielded mechanical performance 110/120V HP 0.5 20V 20V HP 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V HP 3 220/230V < | | | | | | | | |
| Closing NO min ms 18 Max ms 25 Opening NO min ms 2 min ms 3 2 Closing NC min ms 3 Opening NC min ms 3 Opening NC min ms 11 Max ms 11 11 Vielded current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 1.5 1.5 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/203V HP 3 220/230V HP 3 220/230V HP 3 | | | | max | ms | 17 | | |
| $\begin{tabular}{l lllllllllllllllllllllllllllllllllll$ | | in DC | | | | | | |
| max ms 25 Opening NO min ms 2 max ms 3 Closing NC min ms 3 Opening NC min ms 3 Opening NC min ms 11 Max ms 17 11 VL technical data min ms 11 Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 1.5 1.5 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 220/230V HP 3 20/208V HP 3 | | | | min | me | 10 | | |
| Opening NO min ms 2 max ms 3 Closing NC min ms 3 min ms 3 Opening NC min ms 5 Opening NC min ms 11 Max ms 11 max ms 11 Vielded data ms 11 max 11 11 Yielded mechanical performance at 480V A 11 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 1.5 1.5 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 460/480V HP <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | Opening NO | Пах | mo | 20 | | |
| $\begin{array}{c c} & max & ms & 3 \\ Closing NC & & min & ms & 3 \\ & max & ms & 3 \\ & max & ms & 5 \\ \hline \\ Opening NC & & & & \\ & min & ms & 11 \\ & max & ms & 17 \\ \hline \\ $ | | | oponing ito | min | ms | 2 | | |
| Closing NC min ms 3 max ms 5 Opening NC min ms 11 max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance for single-phase AC motor Yielded mechanical performance for single-phase AC motor Yielded mechanical performance for single-phase AC motor Yielded mechanical performance Yielded Mechanical performance <td <="" colspan="2" td=""><td></td><td></td><td></td><td></td><td></td><td></td></td> | <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| max ms 5 Opening NC min ms 11 max ms 17 UL technical data ms 11 Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance at 480V A 11 Yielded mechanical performance 110/120V HP 0.5 230V HP 1.5 for three-phase AC motor 110/120V HP 3 220/230V HP 3 220/230V HP 3 460/480V HP 7.5 3 3 3 | | | Closing NC | | | | | |
| Main min ms 11 max ms 17 UL technical data x x Full-load current (FLA) for three-phase AC motor at 480V A 11 Yielded mechanical performance at 600V A 11 Yielded mechanical performance result 110/120V HP 0.5 230V HP 1.5 15 15 for three-phase AC motor 200/208V HP 3 220/230V HP 3 220/230V HP 3 460/480V HP 7.5 15 15 | | | | min | ms | 3 | | |
| min ms 11 max ms 17 UL technical data | | | | max | ms | 5 | | |
| max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11 Yielded mechanical performance Intervention Intervention for single-phase AC motor Intervention Intervention 110/120V HP 0.5 230V 230V HP 1.5 for three-phase AC motor Intervention Intervention 220/208V HP 3 220/230V HP 3 460/480V HP 7.5 | | | Opening NC | | | | | |
| UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 110/120V HP 3 220/208V HP 3 220/230V HP 3 460/480V HP 7.5 5 3 | | | | | | | | |
| Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 460/480V HP 7.5 | | | | max | ms | 1/ | | |
| at 480V A 11 at 600V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 460/480V HP 7.5 | | for three phase AC ma | otor | | | | | |
| at 600V A 11 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 for three-phase AC motor 200/208V HP 3 220/230V HP 3 460/480V HP 7.5 | r ull-load current (FLA) | ior unree-phase AC mo | 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) | 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 |
| 4.4 (0.17") (0 | | 44 (1.73") | (2 28") 50 | 57 .24") RF9 |
| A1 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | |
| Certifications and c | ompliance | | | |
| Compliance | | | | |
| | CSA C22.2 n° 60947-1 | | | |
| | CSA C22.2 n° 60947-4-1 | | | |
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11BG1201D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT**

| | IEC/EN 60947-1 |
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| | IEC/EN 60947-4-1 |
| | UL 60947-1 |
| | UL 60947-4-1 |
| Certificates | |
| | CCC |
| | cULus |
| | EAC |
| ETIM classification | |
| | |

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EC000066 -Power contactor, AC switching