



| Product type designation BF12 Contract characteristics Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 28 Operational frequency min Hz 25 max Hz 400 28 Operational free air thermal current Ith A 28 Operational current le AC-1 (≤40°C) A 28 AC-3 (≤440V ≤55°C) A 12 AC-4 (400V) A 7.9 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 440V kW 5.5 S00V kW 5.5 500V kW 5.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 10 400V 400V kW 5.5 S00V kW 5 5 500V kW 5 690V 32 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V | Product designation | | | Power contactor |
|--|---|---------------------------------------|------|-----------------|
| Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Operational frequency min Hz 25 max Hz 400 12 IEC Conventional free air thermal current lth A 28 Operational current le AC-1 (\$40°C) A 28 AC-1 (\$55°C) A 23 AC-1 (\$55°C) A 23 AC-1 (\$40VV) A 7.9 Rated operational power AC-3 (T<55°C) | | | | BF12 |
| Rated insulation voltage Ui IEC/EN V 690 Rated inpulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 EC Conventional frequency A 28 Operational current le AC-1 (≤40°C) A 28 Operational current le AC-1 (≤55°C) A 20 AC-1 (≤70°C) A 20 AC-3 (≤440V ≤55°C) A 12 AC-4 (400V) A 7.9 Rated operational power AC-3 (T555°C) 230V kW 3.2 415V kW 5.5 500V kW 5.5 500V kW 5.5 500V kW 10 400V kW 10 400V kW 10 400V kW 10 400V kW 12 EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 524V A 17 48V A 10 48V A 12 EC max current le | | | Nla | 2 |
| Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 12 IEC Conventional free air thermal current lth A 28 Operational current le AC-1 (≤40°C) A 28 AC-1 (≤40°C) A 28 AC-1 (≤55°C) A 23 AC-1 (≤40°C) A 28 AC-1 (≤40°C) A 28 AC-1 (≤40°C) A 28 AC-1 (≤40°C) A 28 AC-1 (≤40°C) A 28 AC-1 (≤40°C) A 28 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.5 S00V kW 5.5 500V kW 5.6 50V kW 10 400V kW 10 400V kW 18 500V kW 13 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series S24V A 17 EC max current le in DC1 with L/R ≤ 1ms w | | | | |
| Operational frequency min Hz 25 max HZ 400 IEC Conventional free air thermal current lth A 28 Operational current le AC-1 (s40°C) A 28 AC-1 (s55°C) A 23 AC-1 (s55°C) A 23 AC-3 (s4400V s55°C) A 12 AC-4 (400V) A 7.9 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 10 400V kW 5.5 500V kW 32 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 17 48V A 15 75V A 13 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 10 48V A | | | | |
| min Hz 25 (400) IEC Conventional free air thermal current lth A 28 Operational current le AC-1 (\$40°C) A 28 AC-1 (\$55°C) A 23 AC-1 (\$55°C) A 20 AC-3 (\$4400 > 55°C) A 12 AC-4 (400V) A 7.9 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V KW 5.7 415V KW 5.2 440V KW 5.5 500V KW 5 Rated operational power AC-1 (T≤40°C) 230V kW 10 400V kW 5.5 Souv kW 5 5 5 5 5 5 Rated operational power AC-1 (T≤40°C) 230V kW 10 400V kW 3.2 EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 15 75V A 13 110V A 6 220V A - 14 EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 20 | | | KV | 0 |
| max Hz 400 IEC Conventional free air thermal current lth A 28 Operational current le AC-1 (≤40°C) A 28 AC-1 (≤57°C) A 20 AC-1 (≤57°C) A 20 AC-3 (≤57°C) A 20 AC-3 (≤57°C) A 12 AC-4 (400V) A 7.9 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 500V kW 5 690V kW 5 8ated operational power AC-1 (T≤40°C) 230V kW 10 400V kW 10 400V kW 10 400V kW 15 5 500V kW 23 690V kW 32 11 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 1220V A - < | Operational frequency | min | | 25 |
| IEC Conventional free air thermal current lthA28Operational current leAC-1 (≤40°C)A28AC-1 (≤55°C)A23AC-1 (≤70°C)A20AC-3 (≤440V ≤55°C)A12AC-4 (400V)A7.9Rated operational power AC-3 (T≤55°C)230VkW3.2400VkW5.7415VkW6.2440VkW5.5500VkW5Rated operational power AC-1 (T≤40°C)230VkW8690VkW5Rated operational power AC-1 (T≤40°C)230VkW10400VkW23690VkW23690VkW23690VkW23690VkW23Calce max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA1748VA13110VA6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA121EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA220VA1 | | | | |
| Operational current le AC-1 (≤40°C) A 28 AC-1 (≤55°C) A 23 AC-1 (≤70°C) A 20 AC-3 (≤440V <55°C) | IFC Conventional trac air thermal surrent lth | max | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | A | 28 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Operational current le | $A \subset 1 (< 10^{\circ} C)$ | ۸ | 20 |
| $\begin{array}{cccc} & AC-1 (\leq 70^{\circ} C) & A & 20 \\ AC-3 (\leq 4400 \times 55^{\circ} C) & A & 12 \\ AC-4 (400V) & A & 7.9 \end{array}$ Rated operational power AC-3 (T $\leq 55^{\circ} C$) $\begin{array}{c} 230V & kW & 3.2 \\ 400V & kW & 5.7 \\ 415V & kW & 6.2 \\ 440V & kW & 5.5 \\ 500V & kW & 5 \end{array}$ Rated operational power AC-1 (T $\leq 40^{\circ} C$) $\begin{array}{c} 230V & kW & 10 \\ 400V & kW & 5 \end{array}$ Rated operational power AC-1 (T $\leq 40^{\circ} C$) $\begin{array}{c} 230V & kW & 10 \\ 400V & kW & 18 \\ 500V & kW & 23 \\ 690V & kW & 32 \end{array}$ IEC max current le in DC1 with L/R ≤ 1 ms with 1 poles in series $\begin{array}{c} \leq 24V & A & 17 \\ 48V & A & 15 \\ 75V & A & 13 \\ 110V & A & 6 \\ 220V & A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1 ms with 2 poles in series $\begin{array}{c} \leq 24V & A & 20 \\ 48V & A & 20 \\ 75V & A & 13 \\ 110V & A & 6 \\ 220V & A & 1 \end{array}$ IEC max current le in DC1 with L/R ≤ 1 ms with 2 poles in series $\begin{array}{c} \leq 24V & A & 20 \\ 48V & A & 20 \\ 75V & A & 13 \\ 110V & A & 6 \\ 220V & A & 1 \end{array}$ | | . , | | |
| AC-3 (≤440V ≤55°C) A 12 AC-4 (400V) A 7.9 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 10 400V kW 10 400V kW 18 500V kW 10 400V kW 13 10V kW 10 400V kW 32 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 15 75V A 13 110V A 6 220V A - 1 1 1 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 20 48V A 13 1 1 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 20 48V A 12 20 48V A <td></td> <td></td> <td></td> <td></td> | | | | |
| AC-4 (400V) A 7.9 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 10 400V kW 10 400V kW 18 500V kW 23 18 10 400V kW 18 500V kW 23 230V kW 10 400V kW 18 16C max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A 17 48V A 15 75V A 13 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A 20 75V A 18 110V A 13 220V A 1 1 <t< td=""><td></td><td>. ,</td><td></td><td></td></t<> | | . , | | |
| Rated operational power AC-3 (T≤55°C)230VkW3.2400VkW5.7415VkW6.2440VkW5.5500VkW5690VkW10400VkW10400VkW18500VkW23690VkW23690VkW231EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $≤24V$ A220VA-1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A220VA-1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A220VA-1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A220VA-1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA220VA220VA220VA220VA< | | , , , , , , , , , , , , , , , , , , , | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Poted operational power AC 2 (T <ee°c)< td=""><td>AC-4 (400V)</td><td>A</td><td>7.9</td></ee°c)<> | AC-4 (400V) | A | 7.9 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Rated operational power AC-3 (1555 C) | 2201/ | L\\/ | 2.2 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | |
| Rated operational power AC-1 (T≤40°C) $230V$ kW10 $400V$ kW18 $500V$ kW23 $690V$ kW32IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $≤24V$ A17 $48V$ A1575VA13 $110V$ A6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A20 $48V$ A2075VA18 $110V$ A13220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A20 $75V$ A18110VA13 $220V$ A11220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A22 $48V$ A2248VA22 $75V$ A2048VA22 $75V$ A2048VA22 $75V$ A2048VA22 $75V$ A2048VA22 $75V$ A2048VA22 $48V$ A2275VA20 | | | | |
| $\begin{array}{c} 230 \lor k \Downarrow 10 \\ 400 \lor k \Downarrow 18 \\ 500 \lor k \Downarrow 23 \\ 690 \lor k \Downarrow 32 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 1 poles in series $\begin{array}{c} \leq 24 \lor A & 17 \\ 48 \lor A & 15 \\ 75 \lor A & 13 \\ 110 \lor A & 6 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 20 \\ 48 \lor A & 20 \\ 75 \lor A & 13 \\ 110 \lor A & 6 \\ 220 \lor A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor A & 20 \\ 48 \lor A & 20 \\ 75 \lor A & 13 \\ 110 \lor A & 13 \\ 220 \lor A & 1 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c} \leq 24 \lor A & 22 \\ 48 \lor A & 22 \\ 75 \lor A & 20 \end{array}$ | Rated operational power AC-1 (T<40°C) | 0001 | | 0 |
| $ \begin{array}{c c} 400 \lor k \Downarrow 23 \\ 500 \lor k \Downarrow 32 \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series \hline \\ \hline \begin{tabular}{ll} S24 \lor A & 17 \\ 48 \lor A & 15 \\ 75 \lor A & 13 \\ 110 \lor A & 6 \\ 220 \lor A & - \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series \hline \\ \hline \begin{tabular}{ll} S24 \lor A & 20 \\ 48 \lor A & 20 \\ 75 \lor A & 18 \\ 110 \lor A & 13 \\ 220 \lor A & 1 \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series \hline \\ \hline \begin{tabular}{ll} S24 \lor A & 20 \\ 75 \lor A & 18 \\ 110 \lor A & 13 \\ 220 \lor A & 1 \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series \hline \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series \hline \\ \hline \begin{tabular}{ll} S24 \lor A & 22 \\ 48 \lor A & 22 \\ 75 \lor A & 20 \end{array} \\ \hline \end{tabular}$ | | 230\/ | k\// | 10 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A1748VA1575VA13110VA6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A2048VA2075VA18110VA13220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A2075VA18110VA13220VA11220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A2248VA2275VA20 | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | IFC max current le in DC1 with L/R < 1ms with 1 poles in series | 0001 | | 02 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | <24\/ | А | 17 |
| $\begin{array}{c cccc} 75 & A & 13 \\ 110 & A & 6 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | |
| $\begin{array}{c cccc} & 110 & A & 6 \\ 220 & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \\ & \leq 24 & A & 20 \\ & 48 & A & 20 \\ & 48 & A & 20 \\ & 75 & A & 18 \\ & 110 & A & 13 \\ & 220 & A & 1 \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series} \\ & \leq 24 & A & 22 \\ & 48 & A & 22 \\ & 48 & A & 22 \\ & 75 & A & 20 \\ \hline \end{array}$ | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | |
| IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series $\leq 24V$ A2048VA2075VA18110VA13220VA1IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\leq 24V$ A2248VA2275VA20 | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| $ \begin{array}{ccccc} 48 \mbox{V} & \mbox{A} & 20 \\ 75 \mbox{V} & \mbox{A} & 18 \\ 110 \mbox{V} & \mbox{A} & 13 \\ 220 \mbox{V} & \mbox{A} & 1 \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R $\leq 1ms with 3 poles in series} \\ \end{array} \\ \begin{array}{ccccccccccccccccccccccccccccccccccc$ | | ≤24V | А | 20 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | |
| $\begin{tabular}{cccc} 110 V & A & 13 \\ 220 V & A & 1 \end{tabular}$ IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\begin{tabular}{cccc} \leq 24 V & A & 22 \\ 48 V & A & 22 \\ 75 V & A & 20 \end{tabular}$ | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | |
| IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\leq 24V$ A2248VA2275VA20 | | | | |
| ≤24V A 22 48V A 22 75V A 20 | IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| 48V A 22 75V A 20 | | ≤24V | А | 22 |
| 75V A 20 | | | | |
| | | | | |
| | | | | |



BF1210A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ,

120VAC, 1NO AUXILIARY CONTACT 220V А 11 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 20 48V 20 А 75V 20 А

| | 750 | A | 20 |
|---|----------|------|-----|
| | 110V | А | 16 |
| | 220V | | 12 |
| | 2200 | A | 12 |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series | | | |
| | ≤24V | А | 12 |
| | 48V | A | 11 |
| | | | |
| | 75V | A | 10 |
| | 110V | Α | 2 |
| | 220V | А | _ |
| IEC may aurrent to in DC2 DC5 with L/D < 15mg with 2 palag in agrica | | | |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series | | | |
| | ≤24V | А | 15 |
| | 48V | Α | 13 |
| | 75V | А | 12 |
| | | | |
| | 110V | А | 8 |
| | 220V | Α | 2 |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series | | | |
| | ≤24V | А | 18 |
| | | | |
| | 48V | А | 18 |
| | 75V | Α | 15 |
| | 110V | А | 12 |
| | 220V | | |
| | 2200 | A | 6 |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series | | | |
| | ≤24V | А | 15 |
| | 48V | А | 15 |
| | | | |
| | 75V | A | 15 |
| | 110V | Α | 16 |
| | 220V | А | 7 |
| Short-time allowable current for 10s (IEC/EN60947-1) | - | А | 150 |
| | | ~ | 150 |
| Protection fuse | | | |
| | gG (IEC) | А | 32 |
| | aM (IEC) | А | 12 |
| Malving connector (DMC value) | | | |
| Making capacity (RMS value) | | A | 120 |
| Breaking capacity at voltage | | | |
| | 440V | А | 96 |
| | 500V | A | 96 |
| | | | |
| | 690V | А | 94 |
| Resistance per pole (average value) | | mΩ | 2.5 |
| Power dissipation per pole (average value) | | | |
| | 141 | 147 | 0 |
| | Ith | W | 2 |
| | AC-3 | W | 0.4 |
| Tightening torque for terminals | | | |
| | min | Nim | 15 |
| | min | Nm | 1.5 |
| | max | Nm | 1.8 |
| | min | lbin | 1.1 |
| | max | Ibin | 1.5 |
| | max | | 1.0 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | main | Ibio | 0.0 |

0.8

lbin

min



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

BF1210A12060

| | | max | lbin | 0.74 |
|---|---|---|---|--|
| Max number of wires | simultaneously connectable | | Nr. | 2 |
| Conductor Section | AWG/Kcmil | | | |
| | | max | | 10 |
| | Flexible w/o lug conductor section | Пах | | 10 |
| | | min | mm² | 1 |
| | | max | mm² | 6 |
| | Flexible c/w lug conductor section | | | |
| | - | min | mm² | 1 |
| | | max | mm² | 4 |
| | Flexible with insulated spade lug conductor section | | | |
| | | min | mm² | 1 |
| | | max | mm² | 4 |
| Power terminal prote | ction according to IEC/EN 60529 | | | IP20 when |
| - | | | | properly wired |
| Mechanical features | | | | |
| Operating position | | • | | Manthe - La L |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN ra 35mm |
| Weight | | | n | 359 |
| Conductor section | | | g | 555 |
| | AWG/kcmil conductor section | | | |
| | | | | |
| | | max | | 10 |
| Auxiliary contact char | acteristics | max | | 10 |
| Auxiliary contact char Thermal current Ith | acteristics | max | A | 10 10 |
| Thermal current Ith | | max | A | |
| | esignation | max | A | 10 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | 230V | A | 10 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | | | 10 A600 - P600 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | 230V | A | 10 A600 - P600 3 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation 15 | 230V 400V | A A | 10 A600 - P600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation 15 | 230V 400V | A A | 10 A600 - P600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation 15 | 230V 400V 500V | A A A | 10 A600 - P600 3 1.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V | A A A | 10 A600 - P600 3 1.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V | A A A A | 10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V | A A A A A A A | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V | A A A A A A A A A | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A A A A A A | 10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A A A A A A | 10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A A | 10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A Cycles | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A A | 10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation 15 212 213 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A Cycles | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation 15 212 213 10d according to EN/ISO 13489-1 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ² | esignation 15 212 213 10d according to EN/ISO 13489-1 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000 2000000 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ² | esignation 15 212 213 10d according to EN/ISO 13489-1 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000 |



BF1210A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

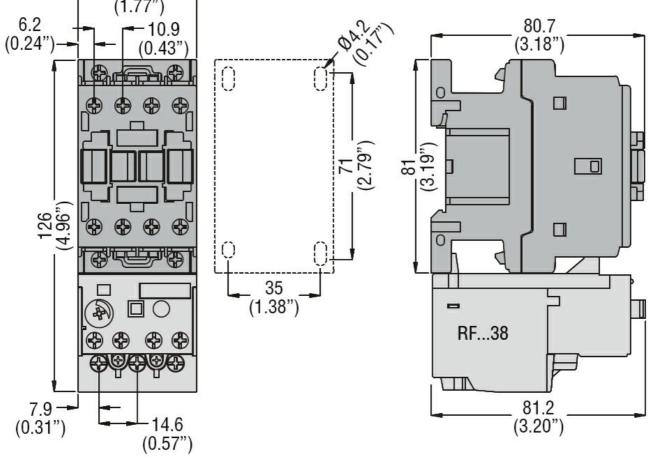
| Rated AC voltage at 60Hz | | V | 120 |
|--|--------------------------|----------|-----------|
| AC operating voltage | | | |
| of 60Hz coil powered at 60Hz | | | |
| pick-up | | | |
| | min | %Us | 80 |
| | max | %Us | 110 |
| drop-out | _ | | |
| | min | %Us | 20 |
| | max | %Us | 55 |
| AC average coil consumption at 20°C | | | |
| of 60Hz coil powered at 60Hz | | | |
| | in-rush | VA | 75 |
| | holding | VA | 9 |
| Dissipation at holding ≤20°C 50Hz | | W | 2.5 |
| Max cycles frequency | | | |
| Mechanical operation | | cycles/h | 3600 |
| Operating times | | | |
| Average time for Us control | | | |
| in AC | | | |
| Closing NO | | | • |
| | min | ms | 8 |
| | max | ms | 24 |
| Opening NO | | | 10 |
| | min | ms | 10 |
| | max | ms | 20 |
| Closing NC | | | |
| | min | ms | 14 |
| | max | ms | 28 |
| Opening NC | min | | 7 |
| | min | ms | 7 |
| UL technical data | max | ms | 18 |
| Full-load current (FLA) for three-phase AC motor | | | |
| rui-ioau curieni (rLA) ioi tiree-priase AC motor | at 480V | ۸ | 11 |
| | at 600V | A | 11 11 |
| Violded machanical parformance | al 600 v | A | 11 |
| Yielded mechanical performance | | | |
| for single-phase AC motor | 110/120V | HP | 1 |
| | 230V | HP | 1 |
| for three phone AC motor | 2300 | пг | 2 |
| for three-phase AC motor | 200/2001 | ЦП | 5 |
| | 200/208V 220/230V | HP HP | 5 5 |
| | 460/480V | HP | 5 7.5 |
| | 460/480V 575/600V | HP | 7.5 10 |
| General USE | 575/600V | ٦F | 10 |
| | | | |
| Contactor | | | |
| Contactor | | ٨ | 28 |
| | AC current | A | 28 |
| Contactor Auxiliary contacts | | | |
| | AC voltage | V | 600 |
| | AC voltage AC current | V A | 600 10 |
| | AC voltage | V | 600 |

High fault



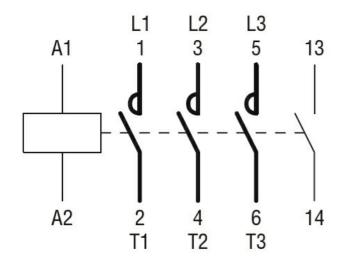
BF1210A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

| | Short circuit current | kA | 100 |
|--|-----------------------|-----|-------------|
| | Fuse rating | А | 30 |
| | Fuse class | | J |
| Standard fault | | | |
| | Short circuit current | kA | 5 |
| | Fuse rating | А | 70 |
| Contact rating of auxiliary contacts according to UL | | | A600 - P600 |
| Ambient conditions | | | |
| Temperature | | | |
| Operating temperature | | | |
| | min | °C | -50 |
| | max | °C | 70 |
| Storage temperature | | | |
| | min | °C | -60 |
| | max | °C | 80 |
| Max altitude | | m | 3000 |
| Resistance & Protection | | | |
| Pollution degree | | | 3 |
| Dimensions | | | |
| 45 (1.77") | 0 - 2 - 0 | 0.7 | |



Wiring diagrams





Certifications and compliance

Compliance

| Compliance | |
|---------------------|------------------------|
| | CSA C22.2 n° 60947-1 |
| | CSA C22.2 n° 60947-4-1 |
| | IEC/EN/BS 60947-1 |
| | IEC/EN/BS 60947-4-1 |
| | UL 60947-1 |
| | UL 60947-4-1 |
| Certificates | |
| | CCC |
| | cULus |
| | EAC |
| ETIM classification | |

ETIM 8.0

EC000066 -Power contactor, AC switching