High-Current, Universal-Clamp Terminal Blocks

DIN-rail or panel-mountable High-Current Universal-Clamp Terminal Blocks offer a versatile solution for high-current and voltage applications requiring aluminum-to-aluminum, copper-to-copper or aluminum-to-copper terminations.

Features and Benefits

- **Hex Screws**: Provide optimal secureness to stranded wire.
- **Tin coated Aluminum contacts**: Can be terminated to either Aluminum or Copper wire.
- **Partition wall on cover**: The wall provides a barrier between the conductors to prevent oxidation.
- **Polyamide housing and cover**: Suitable for -40 to +105°C operating temperatures.
- **Compound coating**: A grease is applied to the insides of the contacts to act as an oxidation inhibitor to extend shelf-life.

**Single and Three Pole Versions Available**

- **Multiple colors available for Single Pole Versions**: Standard color is grey. Similar models are available with different color covers for ease of identification.
- **DIN-rail or through-hole mountable**: Flexible mounting to match chassis design.
- **Single pole models available in the following max. amperage (per UL)**:
  - MX-K61: 150A
  - MX-K62: 230A
  - MX-K63: 285A
  - MX-K64: 380A
- **Three pole model max. amperage**: MX-K61.03: 150A

- **Three Pole Version**: Ideal for 3-phase power applications.

**Note:** The components and specifications are illustrative and may vary. Please refer to the manufacturer's specifications for exact details.
High-Current, Universal-Clamp Terminal Blocks

**Specifications**

**REFERENCE INFORMATION**
- Certification Marks: UL, CE
- Design Standards: UL: 1059
- IEC: EN60947-7-1:2009; EN61238-1:2003
- Designed In: Millimeters
- RoHS: Yes
- Halogen Free: Yes
- Glow Wire Compliant: Yes

**TECHNICAL INFORMATION**
- Maximum Voltage (UL): 600 or 1000
- Amperage Range (UL): 120 to 380
- Wire Range: 500 MCM to 6 AWG

**PHYSICAL INFORMATION**
- Housing: Polyamide
- Body and Screws: Tin-coated aluminum

**MECHANICAL FEATURES**
- Recommended Tightening Torque: 10Nm – 40Nm (90 in/lbs to 360 in/lbs)
- Screw Head: Hexagonal
- Mounting: Screws or DIN rail
- Plating: Tin
- Operating Temperature: -40 to +125°C
- DIN-rail Size: 35mm

**Applications**
- Motor inverters
- Motor drives
- Motor control systems
- Switchgears
- Power distribution panels and cabinets
- Vehicle charging stations
- Commercial vehicles
- Electric trains
- Photovoltaic (solar) systems

**Images:**
- Single contact with four terminations
- Intended for power feed applications
- Different color covers available
  - Red and black for DC applications;
  - grey and blue for AC applications
- High temp Polyamide housing and cover
  - Suitable for -40 to +125°C operating temperatures of a 1000V system
- Single pole models available in the following max. amperage (per UL)
  - MX-KE161: 150A
  - MX-KE162: 230A
  - MX-KE163: 285A
  - MX-KE66: 150A
  - MX-KE67: 230A
  - MX-KE68: 285A
  - MX-KE69: 380A

**Images:**
- Double housing and cover design
- 600V (per UL), Single Pole Tapping Blocks Available

**Images:**
- Commercial Vehicles
- Motor Drive
- Photovoltaic Systems
High-Current, Universal-Clamp Terminal Blocks

Ordering Information

One pole terminal blocks

<table>
<thead>
<tr>
<th>Molex Part Number</th>
<th>Engineering Number*</th>
<th>Wire Type</th>
<th>Wire Gauge (AWG)</th>
<th>Maximum Voltage</th>
<th>Maximum Amperage</th>
<th>Tightening Torque in In/Lbs</th>
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<tbody>
<tr>
<td>2016060610</td>
<td>MX-KE61</td>
<td>Cu</td>
<td>1/0 to 6</td>
<td>600</td>
<td>150</td>
<td>90 (10Nm)</td>
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<td>MX-KE62</td>
<td>Cu</td>
<td>4/0 to 4</td>
<td>600</td>
<td>230</td>
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<td>2016060630</td>
<td>MX-KE63</td>
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<td>300 MCM to 2</td>
<td>600</td>
<td>285</td>
<td>216 (24Nm)</td>
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<td>MX-KE64</td>
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<td>500 MCM to 3/0</td>
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Tapping terminal blocks (Single pole, four connections)

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<td>MX-KE67</td>
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One pole terminal blocks, 1000V rated

<table>
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*Standard color is grey. For optional colors, replace the last digit of Molex part number (zero) with: 2 (blue) or 3 (yellow/green).

Three pole terminal blocks

<table>
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<th>Molex Part Number</th>
<th>Engineering Number</th>
<th>Wire Type</th>
<th>Wire Gauge (AWG)</th>
<th>Maximum Voltage</th>
<th>Maximum Amperage</th>
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www.molex.com/link/hcucterminalblocks.html

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