

# High-Current, Universal-Clamp Terminal Blocks

**molex**<sup>®</sup>

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

### Partition wall on cover

The wall provides a barrier between the conductors to prevent oxidation

### Tin coated Aluminum contacts

Can be terminated to either Aluminum or Copper wire

### 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

### Three Pole Version

Ideal for 3-phase power applications

### DIN-rail or through-hole mountable

Flexible mounting to match chassis design



### Single pole models available in the following max. amperage (per UL)

MX-KE61: 150A  
MX-KE62: 230A  
MX-KE63: 285A  
MX-KE64: 380A

### Three pole model max. amperage

MX-KE61.03: 150A

# High-Current, Universal-Clamp Terminal Blocks

**molex**<sup>®</sup>

600V (per UL), Single Pole Tapping Blocks Available

Double housing and cover design

Single contact with four terminations

Intended for power feed 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

Different color covers available

Red and black for DC applications; grey and blue for AC applications



## Applications

Motor inverters

Motor drives

Motor control systems

Switchgears

Power distribution panels and cabinets

Vehicle charging stations

Commercial vehicles

Electric trains

Photovoltaic (solar) systems



Commercial Vehicles



Motor Drive



Photovoltaic Systems

## 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

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## Ordering Information

### One pole terminal blocks

Molex Part Number	Engineering Number*	Wire Type	Wire Gauge (AWG)	Maximum Voltage	Maximum Amperage	Tightening Torque in In/Lbs
<a href="#">2016060610</a>	MX-KE61	Cu	1/0 to 6	600	150	90 (10Nm)
		Al			120	
<a href="#">2016060620</a>	MX-KE62	Cu	4/0 to 4	600	230	126 (14Nm)
		Al			180	
<a href="#">2016060630</a>	MX-KE63	Cu	300 MCM to 2	600	285	216 (24Nm)
		Al			230	
<a href="#">2016060640</a>	MX-KE64	Cu	500 MCM to 3/0	600	380	360 (40Nm)
		Al			310	

### Tapping terminal blocks (Single pole, four connections)

Molex Part Number	Engineering Number*	Wire Type	Wire Gauge (AWG)	Maximum Voltage	Maximum Amperage	Tightening Torque in In/Lbs
<a href="#">2016060660</a>	MX-KE66	Cu	1/0 to 6	600	150	90 (10Nm)
		Al			120	
<a href="#">2016060670</a>	MX-KE67	Cu	4/0 to 4	600	230	126 (14Nm)
		Al			180	
<a href="#">2016060680</a>	MX-KE68	Cu	300 MCM to 2	600	285	216 (24Nm)
		Al			230	
<a href="#">2016060690</a>	MX-KE69	Cu	500 MCM to 3/0	600	380	360 (40Nm)
		Al			310	

### One pole terminal blocks, 1000V rated

Molex Part Number	Engineering Number*	Wire Type	Wire Gauge (AWG)	Maximum Voltage	Maximum Amperage	Tightening Torque in In/Lbs
<a href="#">2016061610</a>	MX-KE161	Cu	1/0 to 6	1000	150	90 (10Nm)
		Al			120	
<a href="#">2016061620</a>	MX-KE162	Cu	4/0 to 4	1000	230	126 (14Nm)
		Al			180	
<a href="#">2016061630</a>	MX-KE163	Cu	300 MCM to 2	1000	285	216 (24Nm)
		Al			230	

\*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

Molex Part Number	Engineering Number	Wire Type	Wire Gauge (AWG)	Maximum Voltage	Maximum Amperage	Tightening Torque in In/Lbs
<a href="#">2016066163</a>	MX-KE61.03	Cu	1/0 – 6	600	150	90 (10Nm)
		Al			120	

[www.molex.com/link/hcucterminalblocks.html](http://www.molex.com/link/hcucterminalblocks.html)

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