High-Current, Universal-Clamp Terminal Blocks

molex

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

Compound coating

A grease is applied to the insides of the contacts to act as an oxidation inhibitor to extend shelf-life

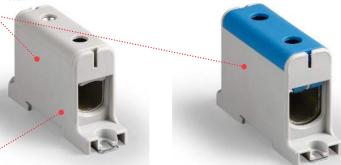
Polyamide housing and cover

Suitable for -40 to +105°C operating temperatures

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 throughhole 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 Version

Ideal for 3-phase power applications



Three pole model max. amperage MX-KE61.03: 150A

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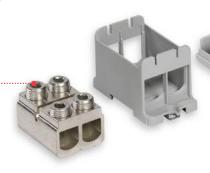
600V (per UL). Single Pole Tapping Blocks Available

Double housing and cover design

MX-KE162: 230A MX-KE163: 285A

Single contact with four terminations

Intended for power feed applications



Single pole models available in the following max. amperage (per UL) MX-KE161: 150A

MX-KE66: 150A MX-KE67: 230A MX-KE68: 285A MX-KE69: 380A



Suitable for -40 to +125°C operating temperatures of a 1000V system



Different color covers available

Red and black for DC applications; grev 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

High-Current, Universal-Clamp Terminal Blocks



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
2016060610	MX-KE61	Cu	1/0 to 6	600	150	- 90 (10Nm)
2016060610		Al			120	
201000000	MX-KE62	Cu	4/0 to 4	600	230	126 (14Nm)
<u>2016060620</u>		Al	4/0 to 4		180	
2016060630	MX-KE63	Cu	300 MCM to 2	000	285	- 216 (24Nm)
		Al		600	230	
2016060640	MX-KE64	Cu	F00 M0M to 2/0	0 MCM to 3/0 600	380	360 (40Nm)
		Al	500 MICINI (0 3/0		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
2016060660	MX-KE66	Cu	1/0 to 6	600	150	- 90 (10Nm)
201606060		Al			120	
0010000070	MX-KE67	Cu	4/0 +- 4	000	230	- 126 (14Nm)
2016060670		Al	4/0 to 4	600	180	
201000000	MX-KE68	Cu	300 MCM to 2	600	285	- 216 (24Nm)
2016060680		Al			230	
2016060690	MX-KE69	Cu	- 500 MCM to 3/0 600	000	380	- 360 (40Nm)
201000090		Al		000	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
2016061610	MX-KE161	Cu	- 1/0 to 6	1000	150	- 90 (10Nm)
<u>2016061610</u>		Al			120	
2016061620	MX-KE162	Cu	4/0 to 4	1000	230	- 126 (14Nm)
		Al			180	
2016061630	MX-KE163	Cu	- 300 MCM to 2 1000	285	285	04.0 (0.4N=-)
		Al		230	216 (24Nm)	

^{*}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
	2016066163	MX-KE61.03	Cu	1/0 – 6	000	150	90 (10Nm)
			Al		600	120	

www.molex.com/link/hcucterminalblocks.html