Terminal Blocks
IEC Type

Class 9080

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<table>
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<tbody>
<tr>
<td>* Class Number</td>
<td>Class</td>
</tr>
<tr>
<td>* Type Number</td>
<td>Type</td>
</tr>
<tr>
<td></td>
<td>9080</td>
</tr>
<tr>
<td></td>
<td>M4/6G</td>
</tr>
</tbody>
</table>
### FAMILY DESCRIPTION

#### NEMA TYPE TERMINAL BLOCKS

This family of blocks and accessories offers a wide variety of features like DIN 3 track mounting, colored blocks, terminal screws shipped backed out, captive screws and higher density to save you both money and time. This line also includes a direct mount block that can be panel or track mounted. Standard track comes in common lengths and breakoff styles. All blocks are UL component recognized and CSA approved.

REFER to Catalog 9080CT9601.

#### IEC TYPE TERMINAL BLOCKS

This family of blocks and accessories is accepted around the world. These blocks mount on 35mm (DIN 3) track, making it convenient when other IEC type products are being used in a control panel. Blocks like the grounding block, the thermocouple block, the glass fuse holder and the stripless box lug block make this a very complete line. The newest additions to this family are the 5mm blocks, the miniature blocks and the direct mount blocks. Most blocks are UL component recognized and CSA approved.

#### FUSE HOLDERS

This family of fuse holders will accept Types H, R, CC, M and J fuses up to 200 amperes. Both 250 V and 600 V versions are available. All Class H, R and J fuses are supplied as standard with reinforced fuse clips to provide long reliable service. All fuse holders are UL Listed and CSA approved.

REFER to Catalog 9080CT9603.

#### POWER DISTRIBUTION BLOCKS

These power distribution and splicer blocks are available in one, two and three pole versions, with either aluminum or copper lugs, which are available in a wide variety of sizes. Whatever your application is, this family should have a block to meet your needs. A wide selection of covers makes this family complete. All these power distribution blocks are UL component recognized and CSA approved.

REFER to Catalog 9080CT9603.

#### OPEN STYLE NEMA TYPE TERMINAL BLOCKS

These blocks are ideal for those applications with high ambient temperatures or where it is desirable to have easy accessibility to the lugs. Some of the blocks are UL component recognized and CSA approved.

REFER to Catalog 9080CT9601.

#### CIRCUIT PROTECTORS

There are two families of circuit protectors. One will be right for your application. The Class 9080 Type GCB thermal magnetic product is available from 0.1 amp through 15 amp and offers high density. The T elemecanique GB2 thermal magnetic product is available world wide.

---

### TABLE

<table>
<thead>
<tr>
<th>FAMILY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>
# IEC Type Terminal Blocks
## Box Lug Termination

<table>
<thead>
<tr>
<th>CLASS 9080</th>
<th>TYPE MA2.5/5</th>
<th>TYPE M4/6</th>
<th>TYPE M6/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Voltage Rating</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Maximum Amperage Rating</td>
<td>20</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>Wire Range</td>
<td>#22 to #12 AWG</td>
<td>#22 to #10 AWG</td>
<td>#22 to #8 AWG</td>
</tr>
<tr>
<td>Maximum Wire Combination</td>
<td>1 - #12, 1 - #18</td>
<td>1 - #10, 1 or 2 - #18</td>
<td>1 - #8, 1 or 2 - #16</td>
</tr>
<tr>
<td>Wire Type</td>
<td>Solid or Stranded Copper Wire</td>
<td>Solid or Stranded Copper Wire</td>
<td>Solid or Stranded Copper Wire</td>
</tr>
<tr>
<td>Density - Sections per foot (per meter)</td>
<td>60 (200)</td>
<td>50 (166)</td>
<td>38 (125)</td>
</tr>
<tr>
<td>Approx. Dimensions (D)x(H)x(W)</td>
<td>1.75 x 1.89 x 0.20 inches</td>
<td>1.75 x 1.89 x 0.24 inches</td>
<td>1.75 x 1.89 x 0.31 inches</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>-67 to 230°F, -55 to 110°C</td>
<td>-67 to 230°F, -55 to 110°C</td>
<td>-67 to 230°F, -55 to 110°C</td>
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<tr>
<td>Flameability Rating</td>
<td>UL94V2</td>
<td>UL94V2</td>
<td>UL94V2</td>
</tr>
<tr>
<td>Recommended Screw</td>
<td>3.5-5.3 lb-in, 0.4-0.6 N-m</td>
<td>3.5-5.3 lb-in, 0.4-0.6 N-m</td>
<td>7.1-8.9 lb-in, 0.8-1.0 N-m</td>
</tr>
<tr>
<td>Listings</td>
<td>File E60616</td>
<td>Guide XCFR2</td>
<td></td>
</tr>
</tbody>
</table>

### Block: Grey
- MA2.5/5G
- M4/6G
- M6/8G

### Blue
- M4/6B
- M6/8B

### End Barner: MFEM6

### DIN 3 Mounting Track: Track Listings
- **Galvanized Steel:**
  - 0.5 Meter Long: MH220
  - 1.0 Meter Long: MH239
  - 2.0 Meter Long: MH279
- **Galvanized Steel - Prepunched:**
  - 0.5 Meter Long: MH320
  - 1.0 Meter Long: MH339
  - 2.0 Meter Long: MH379
- **End Clamps: Screw-in:**
  - MH10 or MHA10: MH10 or MHA10
- **10 Pole Jumper Bar for Top:**
  - MH70: MH72
- **10 Pole Comb Side Jumper Bar:**
  - MH71: MH73
- **Stripless Jumper - 1 pole:**
  - MH76: MH76
- **Circuit Separator:**
  - MH63: MH63
- **Vinyl Marking Strip:**
  - MH20: MH20
- **Blank Marking Tabs - 100:**
  - MH25: MH26
- **Marked Tabs - from 1 to 100:**
  - MH22: MH26100
- **Marked Tabs - from 101 to 200:**
  - MH21200
- **Marked Tabs - from 201 to 300:**
  - MH21300
- **Screw in test probe adapter:**
  - MH91: MH92
- **Test Probe:**
  - MH90: MH93
- **Removable Test Probe Adapter:**
  - MH94: MH94

▲ See page 11 for additional track listings.

* These maximum current values assume the use of insulated copper conductors with 75°C temperature rating, and are calculated based on NEC Article 310, Table 310-16. In most cases this value is the maximum ampacity of that wire or combination of wires (as listed in the above table) which has the greatest current carrying capacity. The actual allowable current for a particular application is dependent upon the number, size, insulation class and other characteristics of the wires used.*
## IEC Type Terminal Blocks

### Box Lug Termination

<table>
<thead>
<tr>
<th>TYPE M10/10</th>
<th>TYPE M16/12</th>
<th>TYPE M35/16</th>
<th>TYPE M70/22</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Diagram" /></td>
<td><img src="image2.png" alt="Diagram" /></td>
<td><img src="image3.png" alt="Diagram" /></td>
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<table>
<thead>
<tr>
<th>Dimension</th>
<th>Type</th>
<th>#20 to #6 AWG</th>
<th>#20 to #6 AWG</th>
<th>#20 to #6 AWG</th>
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<tbody>
<tr>
<td>600</td>
<td>600</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>65</td>
<td>85</td>
<td>150</td>
<td>175</td>
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<table>
<thead>
<tr>
<th>AWG Range</th>
<th>Solid or Stranded Copper Wire</th>
<th>Solid or Stranded Copper Wire</th>
<th>Solid or Stranded Copper Wire</th>
<th>Solid or Stranded Copper Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>#20 to #6</td>
<td>1 - #8 1 or 2 - #14</td>
<td>1 or 2 - #10 1 or 2 - #12 1 or 2 - #14</td>
<td>1 - #10 1 - #4</td>
<td>1 - 2/0 1 or 2 - #2 1 - 1/0 1 to 3 - #4</td>
</tr>
<tr>
<td>#14 to #4 AWG</td>
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<tr>
<td>#6 to #1 AWG</td>
<td></td>
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<td>1 or 2 - #8 1 to 3 - #14</td>
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</tr>
<tr>
<td>#4 to #2 AWG</td>
<td></td>
<td></td>
<td></td>
<td>1 - #1</td>
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</table>

- **Solid or Stranded Copper Wire**
- **Solid or Stranded Copper Wire**
- **Solid or Stranded Copper Wire**
- **Solid or Stranded Copper Wire**

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>#20 to #6 AWG</th>
<th>#20 to #6 AWG</th>
<th>#20 to #6 AWG</th>
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</thead>
<tbody>
<tr>
<td>Solid or Stranded Copper Wire</td>
<td>MFEM6</td>
<td>MFEM12</td>
<td>MFEM16</td>
<td>MFEM22</td>
</tr>
<tr>
<td>UL94V2</td>
<td>MH220</td>
<td>MH220</td>
<td>MH220</td>
<td>MH220</td>
</tr>
<tr>
<td>UL94V2</td>
<td>MH239</td>
<td>MH239</td>
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<tr>
<td>UL94V2</td>
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<tr>
<td>UL94V2</td>
<td>MH339</td>
<td>MH339</td>
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<td>MH339</td>
</tr>
<tr>
<td>UL94V2</td>
<td>MH379</td>
<td>MH379</td>
<td>MH379</td>
<td>MH379</td>
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</tbody>
</table>

- **MH10 or MHA10**
- **MH10 or MHA10**
- **MH10 or MHA10**
- **MH10 or MHA10**

- **MH75**
- **MH76**
- **MH76**
- **MH76**

- **MH63**
- **MH26**
- **MH26**
- **MH26**

- **MH26100**
- **MH26100**
- **MH26100**
- **MH26100**

- **MH2650**
- **MH2650**
- **MH2650**
- **MH2650**

- **MH91**
- **MH90**

- **MH90**

▲ See page 11 for additional track listings.
## IEC Type Terminal Blocks
### Other Terminations

<table>
<thead>
<tr>
<th>CLASS 9080</th>
<th>TYPE M6/9EE</th>
<th>TYPE M1.5/6ADV</th>
<th>TYPE MTC6</th>
</tr>
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<tbody>
<tr>
<td><strong>Flat Terminal Connector</strong></td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

### Maximum Voltage Rating
- **TYPE M6/9EE**: 600 V
- **TYPE M1.5/6ADV**: 600 V
- **TYPE MTC6**: N/A

### Maximum Amperage Rating
- **TYPE M6/9EE**: 40 A
- **TYPE M1.5/6ADV**: 20 A
- **TYPE MTC6**: N/A

### Wire Range
- **TYPE M6/9EE**: #22 to #8 AWG
- **TYPE M1.5/6ADV**: #20 to #14 AWG
- **TYPE MTC6**: N/A

### Maximum Wire Combination
- **TYPE M6/9EE**: 1 - #8, 1 - #16, 1 - #10, 1 - #18, 1 - #12, 1 - #20, 1 - #14, 1 - #22
- **TYPE M1.5/6ADV**: 1 - #14, 1 - #18, 1 - #16, 1 - #20
- **TYPE MTC6**: N/A

### Wire Type
- **TYPE M6/9EE**: Solid or Stranded Copper Wire
- **TYPE M1.5/6ADV**: Solid or Stranded Copper Wire
- **TYPE MTC6**: Any Type of Thermocouple

### Density - Sections per foot (per meter)
- **TYPE M6/9EE**: 32 (105)
- **TYPE M1.5/6ADV**: 50 (166)
- **TYPE MTC6**: 50 (166)

### Approx. Dimensions (D)x(H)x(W)
- **TYPE M6/9EE**: 1.61 x 1.38 x .37 inches (41.0 x 35.0 x 9.5 mm)
- **TYPE M1.5/6ADV**: 1.75 x 1.89 x .24 inches (44.5 x 48.0 x 6.0 mm)
- **TYPE MTC6**: 1.75 x 1.89 x .24 inches (44.5 x 48.0 x 6.0 mm)

### Temperature Rating
- **TYPE M6/9EE**: -67 to 230°F (-55 to 110°C)
- **TYPE M1.5/6ADV**: -67 to 230°F (-55 to 110°C)
- **TYPE MTC6**: -67 to 230°F (-55 to 110°C)

### Flammability Rating
- **TYPE M6/9EE**: UL94V2
- **TYPE M1.5/6ADV**: UL94V2
- **TYPE MTC6**: UL94V2

### Recommended Screw Tightening Torque
- **TYPE M6/9EE**: 7.1-8.9 lbf-in (0.8-1.0 N-m)
- **TYPE M1.5/6ADV**: 3.5-5.3 lbf-in (0.4-0.6 N-m)
- **TYPE MTC6**: 3.5-5.3 lbf-in (0.4-0.6 N-m)

### Listings
- **File E60616**: Guide XCFR2
- **Block**: Grey
- **End Barrier**: MFEM9
- **DIN 3 Mounting Track**: MFEM6
- **Galvanized Steel**:
  - 0.5 Meter Long: MH220
  - 1.0 Meter Long: MH239
  - 2.0 Meter Long: MH279
- **Bichromated Zinc Steel**:
  - 0.5 Meter Long: MH320
  - 1.0 Meter Long: MH339
  - 2.0 Meter Long: MH379
- **End Clamps**: Screw-in
  - MH10 or MHA10
- **10 Pole Jumper Bar for Top**: MH79
- **10 Pole Comb Side Jumper Bar**: MH71
- **Stripless Jumper - 1 pole**: MH76
- **Circuit Separator**: MH63
- **Vinyl Marking Strip**: MH20
- **Blank Marking Tabs - 100**: MH21
- **Marked Tabs - from 1 to 100**: MH22
- **Marked Tabs - from 101 to 200**: MH21200
- **Marked Tabs - from 201 to 300**: MH21300
- **Marked Tabs - from 1 to 50 twice**: MH23
- **Screw in test probe adapter**: MH91
- **Test Probe**: MH90
- **Removable Test Probe Adapter**: MH92

\* See page 11 for additional track listings.

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**SQUARE D**
## IEC Type Terminal Blocks
### Other Blocks

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<thead>
<tr>
<th>TYPE M4/6D2</th>
<th>TYPE M4/6DE1</th>
<th>TYPE MD2.5/6D</th>
<th>TYPE M6/8SN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Tier Block</td>
<td>Diode Block</td>
<td>Three Tier Block</td>
<td>Circuit Isolating Switch</td>
</tr>
<tr>
<td>300</td>
<td>300</td>
<td>300</td>
<td>600</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>#22 to #12 AWG</td>
<td>#22 to #12 AWG</td>
<td>#22 to #16 AWG</td>
<td>#22 to #8 AWG</td>
</tr>
<tr>
<td>1 - #12</td>
<td>1 - #18</td>
<td>1 - #12</td>
<td>1 - #16</td>
</tr>
<tr>
<td>1 - #14</td>
<td>1 - #20</td>
<td>1 - #14</td>
<td>1 - #18</td>
</tr>
<tr>
<td>1 - #16</td>
<td>1 - #22</td>
<td>1 - #16</td>
<td>1 - #20</td>
</tr>
</tbody>
</table>

- **Solid or Stranded Copper Wire**
  - 50 (166)
  - 2.58 x 2.34 x 0.24 inches
  - 65.5 x 59.5 x 6.0 mm
- **-67 to 230°F**
  - -67 to 230°F
  - -55 to 110°C
- **UL94V2**
  - 3.5-5.3 lbf-in
  - 0.4-0.6 N-m

### Specifications
- **File E60616 Guide XCFR2**
- **File E60616 Guide XCFR2**
- **UL94V2**
  - 3.5 lbf-in
  - 0.4 N-m
- **File E60616 Guide XCFR2**
  - 7.1-8.9 lbf-in
  - 0.8-1.0 N-m

### Additional Track Listings
- See page 11 for additional track listings.
## IEC Type Terminal Blocks

### Grounding Terminal Blocks

<table>
<thead>
<tr>
<th>CLASS 9080</th>
<th>TYPE MA2.5/5P</th>
<th>TYPE M6/8P</th>
<th>TYPE M16/12P</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Wire Range</strong></th>
<th>#22 to #12 AWG</th>
<th>#22 to #8 AWG</th>
<th>#14 to #4 AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Wire Combination</strong></td>
<td>1 - #12 1 - #18 1 - #10 1 or 2 - #16</td>
<td>1 - #8 1 or 2 - #16 1 - #6 1 or 2 - #12</td>
<td>1 - #4 1 or 2 - #10 1 - #8 1 or 2 - #14</td>
</tr>
<tr>
<td><strong>Wire Type</strong></td>
<td>Solid or Stranded Copper Wire</td>
<td>Solid or Stranded Copper Wire</td>
<td>Solid or Stranded Copper Wire</td>
</tr>
<tr>
<td><strong>Density - Sections per foot (per meter)</strong></td>
<td>60 (200)</td>
<td>38 (125)</td>
<td>25 (83)</td>
</tr>
<tr>
<td><strong>Approx. Dimensions (D)x(H)x(W)</strong></td>
<td>1.71 x 1.89 x .20 inches 43.5 x 48.0 x 5.0 mm</td>
<td>1.71 x 1.89 x .31 inches 43.5 x 48.0 x 8.0 mm</td>
<td>1.93 x 1.89 x .47 inches 49.0 x 48.0 x 12.0 mm</td>
</tr>
<tr>
<td><strong>Temperature Rating</strong></td>
<td>-67 to 230° F -55 to 110° C</td>
<td>-67 to 230° F -55 to 110° C</td>
<td>-67 to 230° F -55 to 110° C</td>
</tr>
<tr>
<td><strong>Flammability Rating</strong></td>
<td>UL94V2</td>
<td>UL94V2</td>
<td>UL94V2</td>
</tr>
<tr>
<td><strong>Recommended Screw Tightening Torque</strong></td>
<td>3.5-5.3 lbf-in 0.4-0.6 N-m</td>
<td>7.1-8.9 lbf-in 0.8-1.0 N-m</td>
<td>10.6-12.3 lbf-in 1.2-1.4 N-m</td>
</tr>
</tbody>
</table>

- **Listings**
  - File E60616
  - Guide XCFR2
  - Block: Yellow/Green MA2.5/5P M6/8P M16/12P
  - End Barrier MFEM6 MFEM6 MFEM6

- **DIN 3 Mounting Track**: ▲ Track Listings

- **Galvanized Steel**
  - 0.5 Meter Long MH220 MH220 MH220
  - 1.0 Meter Long MH239 MH239 MH239
  - 2.0 Meter Long MH279 MH279 MH279

- **Bichromated Zinc Steel**
  - 0.5 Meter Long MH320 MH320 MH320
  - 1.0 Meter Long MH339 MH339 MH339
  - 2.0 Meter Long MH379 MH379 MH379

- **End Clamps: Screw-in**
  - MH10 or MHA10 MH10 or MHA10 MH10 or MHA10

- **Vinyl Marking Strip**
  - MH20 MH20 MH20

- **Blank Marking Tabs - 100**
  - MH25 MH26 MH26

- **Marked Tabs - from 1 to 100**
  - MH26100 MH26100 MH26100

- **Marked Tabs - from 1 to 50 (2 sets)**
  - MH2650 MH2650 MH2650

- **Removable Test Probe Adapter**
  - MH94 MH93

▲ See page 11 for additional track listings.
# IEC Type Terminal Blocks

## Fuse Blocks

<table>
<thead>
<tr>
<th>CLASS 9080</th>
<th>TYPE M4/8SF</th>
<th>TYPE M10/16SFL</th>
<th>TYPE M10/22S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Voltage Rating</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Maximum Amperage Rating</td>
<td>6.3</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td>Wire Range</td>
<td>#22 to #12 AWG</td>
<td>#18 to #8 AWG</td>
<td>#18 to #6AWG</td>
</tr>
<tr>
<td>Maximum Wire Combination</td>
<td>1 - #12 1 - #18 1 - #14 1 - #10 1 - #16 1 - #12 1 - #18</td>
<td>1 - #8 1 - #14 1 - #10 1 - #16 1 - #12</td>
<td>1 - #6 1 - #14 1 - #10 1 - #18</td>
</tr>
<tr>
<td>Wire Type</td>
<td>Solid or Stranded Copper Wire</td>
<td>Solid or Stranded Copper Wire</td>
<td>Solid or Stranded Copper Wire</td>
</tr>
<tr>
<td>Density - Poles per foot (per meter)</td>
<td>38 (125)</td>
<td>19 (62)</td>
<td>13 (45)</td>
</tr>
<tr>
<td>Approx. Dimensions (D)x(H)x(W)</td>
<td>2.22 x 1.85 x .31 inches</td>
<td>2.68 x 2.91 x .63 inches</td>
<td>3.52 x 2.93 x .87 inches</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>-67 to 230°F -55 to 110°C</td>
<td>-67 to 230°F -55 to 110°C</td>
<td>-67 to 230°F -55 to 110°C</td>
</tr>
<tr>
<td>Flammability Rating</td>
<td>UL94V2</td>
<td>UL94V2</td>
<td>UL94V2</td>
</tr>
<tr>
<td>Recommended Screw Tightening Torque</td>
<td>3.5-5.3 lbf-in 0.4-0.6 N·m</td>
<td>7.1-8.9 lbf-in 0.8-1.0 N·m</td>
<td>20 lbf-in 2.6 N·m</td>
</tr>
</tbody>
</table>

## Listings

- File E60616
- Guide XCFR2

### 1 Pole Fuse Block without Blown Fuse Indicator
- M4/8SF
- M10/16SFL
- M10/22SFL

### 1 Pole Fuse Block with 110-220V Blown Fuse Indicator
- M4/8SFL

### 1 Pole Fuse Block with 24V Blown Fuse Indicator
- M4/8SF

### 2 Pole Fuse Block without Blown Fuse Indicator
- M10/22SFL

### 3 Pole Fuse Block without Blown Fuse Indicator
- M10/22SD1

### End Barrier
- MFEMB8

### DIN 3 Mounting Track: ▲ Track Listings

#### Galvanized Steel
- 0.5 Meter Long
  - MH220
  - MH420
- 1.0 Meter Long
  - MH239
  - MH39
- 2.0 Meter Long
  - MH279
  - MH379

#### Bichromated Zinc Steel
- 0.5 Meter Long
  - MH320
  - MH320
- 1.0 Meter Long
  - MH339
  - MH339
- 2.0 Meter Long
  - MH379
  - MH379

#### End Clamps: Screw-in
- MH10 or MHAT10
- MH10 or MHAT10

#### Blown Fuse Indicator
- 24 VDC LED
  - MH83
  - MH83
- 110-380 V Neon
  - MH81
  - MH81

#### 10 Pole Jumper
- MH30
- MH31
- MH32

#### Blank Marking Tabs - 100
- MH26
- MH26
- MH26

#### Marked Tabs - from 1 to 100
- MH26100
- MH26100
- MH26100

#### Marked Tabs - from 1 to 50 (2 sets)
- MH2650
- MH2650
- MH2650

▲ See page 11 for additional track listings.

* These maximum current values assume the use of insulated copper conductors with 75°C temperature rating, and are calculated based on NEC Article 310, Table 310-16. In most cases this value is the maximum ampacity of that wire or combination of wires (as listed in the above table) which has the greatest current carrying capacity. The actual allowable current for a particular application is dependent upon the number, size, insulation class and other characteristics of the wires used.
### IEC Type Terminal Blocks
#### DIN 2 Miniature Blocks & Direct Mount Blocks

<table>
<thead>
<tr>
<th>CLASS 9080</th>
<th>TYPE DR4/6G</th>
<th>TYPE DR4/6P</th>
<th>TYPE DR4/8SF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Miniature Box Lug Block</strong></td>
<td><strong>Miniature Grounding Terminal Block</strong></td>
<td><strong>Miniature Fuse Block for 5x20mm or 5x25mm fuses</strong></td>
<td></td>
</tr>
</tbody>
</table>

| Maximum Voltage Rating | 250 | N/A | 600 |
| Maximum Amperage Rating * | 20 | N/A | 6.3 |
| Wire Range | #28 to #12 AWG | #18 to #12 AWG | #22 to #12 AWG |
| Maximum Wire Combination | 1 - #12 1 - #20 | 1 - #12 1 - #16 | 1 - #12 1 - #18 |
| | 1 - #14 1 - #22 | 1 - #14 1 - #20 | 1 - #14 1 - #20 |
| | 1 - #16 1 - #24 | 1 - #16 1 - #20 | 1 - #16 1 - #22 |
| Density - Sections per foot (per meter) | 50 (166) | 50 (166) | 38 (125) |
| Approx. Dimensions (D)x(H)x(W) | 1.10 x 1.22 x .24 inches 28.0 x 31.0 x 6.0 mm | 1.10 x 1.22 x .24 inches 28.0 x 31.0 x 6.0 mm | 2.34 x 1.49 x .31 inches 59.5 x 38.0 x 8.0 mm |
| Temperature Rating | -67 to 230° F -55 to 110° C | -67 to 230° F -55 to 110° C | -67 to 230° F -55 to 110° C |
| Flammability Rating | UL94V2 | UL94V2 | UL94V2 |
| Recommended Screw Tightening Torque | 3.5-5.3 lbf-in 0.4-0.6 N·m | 3.5-5.3 lbf-in 0.4-0.6 N·m | 3.5-5.3 lbf-in 0.4-0.6 N·m |

#### Listings
- File E60616 Guide XCFR2
- File E102162 Guide KDER2
- File E60616 Guide XCFR2

---

### CLASS 9080 DIRECT MOUNT BLOCKS

<table>
<thead>
<tr>
<th>Block</th>
<th>Barrier/End Stop</th>
<th>Maximum Voltage Rating</th>
<th>Maximum Amperage Rating *</th>
<th>Wire Range</th>
<th>Maximum Wire Combination</th>
<th>Density - Sections per foot (per meter)</th>
<th>Approx. Dimensions (D)x(H)x(W)</th>
<th>Temperature Rating</th>
<th>Flammability Rating</th>
<th>Recommended Screw Tightening Torque</th>
<th>Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR4/6G</td>
<td>DR4/6P</td>
<td>DR4/8SF</td>
<td>600</td>
<td>20</td>
<td>#22 to #12 AWG</td>
<td>1 - #12 1 - #18</td>
<td>1 - #14 1 - #20</td>
<td>1 - #16 1 - #22</td>
<td>1 - #12 1 - #18 1 - #20 1 - #22</td>
<td>3.5-5.3 lbf-in 0.4-0.6 N·m</td>
<td>File E60616 Guide XCFR2</td>
</tr>
</tbody>
</table>

* These maximum current values assume the use of insulated copper conductors with 75° C temperature rating, and are calculated based on NEC Article 310, Table 310-16. In most cases this value is the maximum ampacity of that wire or combination of wires (as listed in the above table) which has the greatest current carrying capacity. The actual allowable current for a particular application is dependent upon the number, size, insulation class and other characteristics of the wires used.
IEC Type Terminal Blocks
Supplementary Protectors
One Pole Thermal-Magnetic Control Circuit Protectors

Single Pole Type GCB Circuit Protector Blocks
A. Thermal-Magnetic circuit protector
B. 14 different stock current ratings – 0.1 to 15 Amp
C. On - Off switch
D. Visible trip indication
E. Mounts on Class 9080 Type GH track and on DIN mounting track.

The 9080GCB... have solderless box lugs. They accept 1 #10 - 16 Cu AWG wire.

The 9080GCB... circuit protectors come standard with the track adapter for mounting on 9080GH track (replacement adapter is 9080GH64. Removal of this adapter permits mounting on 9080MH2xx, MH3xx, and AM1 track. See page 8 for complete listing of available tracks. Use the 9080MH62 mounting adapter for the 9080MH1xx DIN 1 track.

Technical Data:

Maximum voltage rating
250Vac/65Vdc (GCB01 through 70)
125Vac/65Vdc (GCB100 and 150)

Maximum interrupting rating 200 Amperes, but not exceeding 10,000% (100 times) rated current

Selection:
In order to properly select a Class 9080 Type GCB circuit protector, follow the following steps:
1. Determine the inrush correction factor from Table A at right.
2. Determine the temperature correction factor from Table B at right.
3. Determine the sealed current of the load that is being protected.
4. Multiply the sealed current by the two correction factors and choose the closest circuit protector. Note: Choosing a circuit protector with a value lower than the calculated value might cause nuisance tripping, while choosing the larger protector might provide a protector that will not properly protect the load.

Example: Solenoid with sealed current of .75 Amps, an inrush ratio of 1:6 and in an ambient temperature of 85° F.

\[0.75 \times 1.5 \times 1.05 = 1.18\]
Choose the 1.2 Amp protector

Table A

<table>
<thead>
<tr>
<th>Percent rated current</th>
<th>100%</th>
<th>200%</th>
<th>300%</th>
<th>400%</th>
<th>500%</th>
<th>600%</th>
<th>1000%</th>
<th>2000% and greater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tripping Time (seconds) at 70°F (21.1°C)</td>
<td>10-40</td>
<td>38</td>
<td>1.5-9</td>
<td>8.6</td>
<td>.003-4</td>
<td>.002-2</td>
<td>Max .02</td>
<td></td>
</tr>
</tbody>
</table>

Note: When several protectors are channel mounted adjacent to each other, the “no trip” current will be 80% of rated current at 70°F.
**IEC Type Terminal Blocks**  
**Supplementary Protectors**  
**One Pole Thermal-Magnetic Control Circuit Protectors**

### Specifications

**Conformity to standards**  
UL Guide QVNU2 File # E164873 tested per UL standard 1077 supplemental protectors  
CSA Class 3215-01  
IEC 157-1  
VDE 0660

**Protective treatment**  
Tropical climate finish

**Enclosure rating**  
IP 201 conforming to IEC 144 finger safe terminals

**Ambient temperature**  
-4 to 140°F (-20 to 60°C) mounted in open air

**Operating position**  
± 30° from the vertical plane

### Technical characteristics

**Rated insulation voltage**  
300 Vac max

**Thermal ratings**  
0.5A, 1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 12A

**Rating selection according to average ambient temperature**

<table>
<thead>
<tr>
<th>Average ambient temperature in °C</th>
<th>Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>1.2</td>
</tr>
<tr>
<td>-10</td>
<td>1.15</td>
</tr>
<tr>
<td>0</td>
<td>1.1</td>
</tr>
<tr>
<td>+10</td>
<td>1.05</td>
</tr>
<tr>
<td>+20</td>
<td>1.0</td>
</tr>
<tr>
<td>+30</td>
<td>.95</td>
</tr>
<tr>
<td>+40</td>
<td>.90</td>
</tr>
<tr>
<td>+50</td>
<td>.85</td>
</tr>
<tr>
<td>+60</td>
<td>.80</td>
</tr>
</tbody>
</table>

**Breaking capacity**  
1.5 kA/220V conforming to IEC 157-1 (P1)

**Operating current of magnetic trips**  
12 to 16 times thermal rating

**Mechanical life**  
8,000 operations

**Maximum wire sizes**

<table>
<thead>
<tr>
<th>Number of conductors</th>
<th>Flexible</th>
<th>1 mm² (12AWG)</th>
<th>2 mm² (16AWG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4mm²</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>1 to 2.5</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Tightening Torque**  
11 lbf-in (1.2 N-m)

**Mounting**  
35 mm Din 3 or Din 1

### Table: Description, Thermal Rating, Standard Pack, Catalog Number

<table>
<thead>
<tr>
<th>Description</th>
<th>Thermal Rating (A)</th>
<th>Standard Pack</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>One pole Thermal Magnetic Control Circuit Protector</td>
<td>0.5</td>
<td>6</td>
<td>GB2 CB05</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>6</td>
<td>GB2 CB06</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>6</td>
<td>GB2 CB07</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>6</td>
<td>GB2 CB08</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>6</td>
<td>GB2 CB09</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>6</td>
<td>GB2 CB10</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>6</td>
<td>GB2 CB12</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>6</td>
<td>GB2 CB14</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>6</td>
<td>GB2 CB16</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>6</td>
<td>GB2 CB20</td>
</tr>
</tbody>
</table>

### Table: Description, Thermal Rating, Standard Pack, Catalog Number

<table>
<thead>
<tr>
<th>Description</th>
<th>Thermal Rating (A)</th>
<th>Standard Pack</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two pole Thermal Magnetic Control Circuit Protector</td>
<td>0.5</td>
<td>6</td>
<td>GB2-CD05</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>6</td>
<td>GB2-CD06</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>6</td>
<td>GB2-CD07</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>6</td>
<td>GB2-CD08</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>6</td>
<td>GB2-CD09</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>6</td>
<td>GB2-CD10</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>6</td>
<td>GB2-CD12</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>6</td>
<td>GB2-CD14</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>6</td>
<td>GB2-CD16</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>6</td>
<td>GB2-CD20</td>
</tr>
</tbody>
</table>

▲ Must order in multiples of Standard Pack
## IEC Type Terminal Blocks
### Accessories

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LENGTH (inches)</th>
<th>CATALOG NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>35 mm DIN 3 MOUNTING TRACK:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 mm depth, 1 mm steel, zinc chromated</td>
<td>2 m (78.74&quot;)</td>
<td>AM1ED200</td>
</tr>
<tr>
<td>15 mm depth, 1.5 mm steel, zinc chromated</td>
<td>2 m (78.74&quot;)</td>
<td>AM1DE200</td>
</tr>
<tr>
<td>7.5 mm depth, 1 mm steel, zinc chromated</td>
<td>2 m (78.74&quot;)</td>
<td>AM1DP200</td>
</tr>
<tr>
<td>Galvanized steel (no mounting holes)</td>
<td>0.5 m (19.68&quot;)</td>
<td>9080 MH220</td>
</tr>
<tr>
<td></td>
<td>1 m (39.37&quot;)</td>
<td>9080 MH239</td>
</tr>
<tr>
<td></td>
<td>2 m (78.74&quot;)</td>
<td>9080 MH279</td>
</tr>
<tr>
<td>Symmetrical rail 35 x 7.5mm (1.38&quot; x .295&quot;) in compliance with EN50022 standard (DIN 46277-3).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Galvanized steel, prepunched</td>
<td>0.5 m (19.68&quot;)</td>
<td>9080 MH320</td>
</tr>
<tr>
<td></td>
<td>1 m (39.37&quot;)</td>
<td>9080 MH339</td>
</tr>
<tr>
<td></td>
<td>2 m (78.74&quot;)</td>
<td>9080 MH379</td>
</tr>
<tr>
<td>DIN 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assymetrical 32 mm (1.26 in) G rail in compliance with EN 50035 standard (DIN 46277-1). Bichromated zinc steel (no mounting holes).</td>
<td>2.0 m (78.74 in)</td>
<td>9080 MH179</td>
</tr>
</tbody>
</table>

**END CLAMP:**

<table>
<thead>
<tr>
<th>9080 MHA10</th>
<th>9080 MH10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw-on End Clamp for DIN 3 track. Made of Polycarbonate. Screws are zinc plated steel with iridescent chromate film. Screws are shipped backed out.</td>
<td>9080 MHA10</td>
</tr>
<tr>
<td>Screw-on End Clamp for DIN 1 or DIN 3 track. Made of Polycarbonate. Screws are zinc plated steel with iridescent chromate film. Screws are shipped backed out.</td>
<td>9080 MH10</td>
</tr>
</tbody>
</table>

**ANGLE BRACKET:**

Angle Bracket Kit - Includes 2 brackets and hardware for mounting track to a panel at a 45° angle.

<table>
<thead>
<tr>
<th>9080 MH82</th>
</tr>
</thead>
</table>

**JUMPERS:**

| Assembled Jumper Bar-10 pole top of terminal block | 5 mm center for MA2.5/5G | MH705 |
| | 6 mm center for M4/6G and M4/6B | MH70 |
| | 6 mm center for MD2.5/6D | MH64 |
| | 8 mm center for M6/8G and M6/8B | MH72 |
| | 12 mm center for M16/12G | MH74 |
| Comb Type Side Jumper-10 pole | 5 mm center for MA2.5/5G | MH715 |
| | 6 mm center for M4/6G and M4/6B | MH71 |
| | 6 mm center for M4/6D2, M4/6DE1, DR4/6G, DR4/6P | MH63 |
| | 8 mm center for M6/8G and M6/8B | MH73 |
| | 10 mm center for M10/10G | MH75 |
| Stripless Jumper | For tying terminals together (with #14 CU AWG wire) of various widths. Can be used with M4/6G, M4/6B, M6/8G, M6/8B, M10/10G, M10/10B, M4/6D2, and M4/6DE1 blocks. | MH76 |
| Bus Bar-20 holes | Cut to desired length. Use with MH67 screw and post to attach to the terminal block. 300V 30 Amp maximum. For use on 9080 M4/6G and 9080 M4/6B blocks. | MH66 |
| Screw and Post | For use with MH66. | MH67 |
| Shielding Connector | Provides termination for grounding connection of a shielded cable. Accepts .110x.032 in. slip on connectors or solder terminal points. Used with M4/6G, M4/6B and M10/10G only. | MH78 |
### IEC Type Terminal Blocks

## Accessories

**DESCRIPTION**

**MARKING:**
- 0.5 m (19.70") blank vinyl marking strip for top marking of terminal blocks M4/6, M6/8, M10/10, M16/12, M6/9EE, M1.5/6ADV, MTC6, and M4/6D.
- **Blank Marking tabs-100**
  - Marker width 5mm: MH25
  - Marker width 6mm: MH21
  - Marker width 8mm: MH26
- **Marking tabs-1 to 100**
  - Marker width 6mm: MH22
  - Marker width 8mm: MH26100
- **Marking tabs-101 to 200**
  - Marker width 6mm: MH21200
- **Marking tabs-201 to 300**
  - Marker width 6mm: MH21300
- **Marking tabs-2 sets 1 to 50**
  - Marker width 6mm: MH23
  - Marker width 8mm: MH2650
- **End clamp Marking Tab**
  - Fits 9080 MH10 End Clamp: MH24

**TEST PROBES:**
- Test probe. To be used with the test probe adapters below: MH90
- Screw in test probe adapter for M4/6, M6/8, M10/10, M16/12, M1.5/6ADV, and M4/6D: MH91
- Removable test probe adapter for the MA2.5/5G (Green): MH94
- For the M4/6G and M4/6B (Yellow): MH92
- For the M6/8G, M4/6B and M6/8SN (Orange): MH93

## Blown Fuse Indicators

**DESCRIPTION**

**ACCESSORIES FOR FUSE BLOCKS LISTED ON PAGE 7.**
- Blown Fuse Indicators For fuse block types: M10/16SFL, M10/22SFL
  - 24VDC LED MH83
  - 110-380V-Neon MH81
- 10 pole Jumper for M4/8SF — MH30
- 10 pole Jumper for M10/16SF — MH31
- 10 pole Jumper for M10/22SF — MH32

## Accessories for Miniature Blocks

**DESCRIPTION**

**ACCESSORIES FOR MINIATURE BLOCKS LISTED ON PAGE 8.**
- DIN 2 track- 2 meter length (1) DH179
- End Clamp for DIN 2 track. DH10
- 100 Blank Markers for 9080 DR4/6 and MD2.5/6D. DH20
- 100 Markers-marked 1-100 for 9080 DR4/6 and MD2.5/6D. DH21

---

(1) As the rail can be used as a grounding bar, the current value of the 9080DR179 is 47A.

### Separators

- Circuit Separators-snaps onto top of open terminal block when in an assembly. Used on M4/6, M6/8, and M10/10 blocks: MH63
- Separator End Section-snaps onto mounting channel between terminal block sections. Will work with a block that uses a 9080 MFEM6 barrier: MH61
IEC Type Terminal Blocks
Approximate Dimensions

DR4/8SF (8 mm wide)

DR4/6G (6 mm wide)

DR4/6P (6 mm wide)

M70/22G (22 mm wide)

M35/16G (16 mm wide)

MD2.5/6D (6 mm wide)

MTC (6 mm wide)

MA2.5/5P (5 mm wide)
M6/8P (8 mm wide)

MA2.5/5G (5 mm wide)
M4/6G (6 mm wide)
M4/8B (6 mm wide)
M6/8G (8 mm wide)
M6/8B (8 mm wide)
M10/10G (10 mm wide)
M10/10B (10 mm wide)
M16/12G (12 mm wide)
IEC Type Terminal Blocks
Approximate Dimensions

M6/9EE (9 mm wide)
M6/8S (8 mm wide)
M6/6GB (6 mm wide)

M10/16SFL (12 mm wide)
M1.5/6ADV (6 mm wide)
M16/12P (12 mm wide)

M4/8D2 (6 mm wide)
M4/8DE1 (6 mm wide)
M4/8SF (8 mm wide)
M4/8SFL (8 mm wide)
M4/8SFD (8 mm wide)

M10/22SFL (22 mm wide)
M10/22 SD2 (8 mm wide)
M10/22 SD3 (8 mm wide)
IEC Type Terminal Blocks
Circuit Protectors
Approximate Dimensions
IEC Type Terminal Blocks
Mounting Track and End Clamps
Approximate Dimensions

AM1DP200
AM1ED200
AM1DE200

9080MH2**
9080MH3**
9080MH1**

If the last two digits of the catalog number is 20, then “A” is equal to 1/2 m (19.7 in).
If the last two digits of the catalog number is 39, then “A” is equal to 1 m (39.4 in).
If the last two digits of the catalog number is 79, then “A” is equal to 2 m (78.7 in).

Dual Dimensions: Inches
Millimeters