SERIES: CDM809 | DESCRIPTION: M8 CONNECTOR

FEATURES
- M8 female connector
- A & B code versions
- panel mount
- IP67

SPECIFICATIONS

<table>
<thead>
<tr>
<th>parameter</th>
<th>conditions/description</th>
<th>min</th>
<th>typ</th>
<th>max</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>rated voltage</td>
<td>3 &amp; 4 pole models 5, 6, 8 pole models</td>
<td>60</td>
<td>30</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>rated current</td>
<td>3, 4, 8 pole models 6 8 pole models</td>
<td>3</td>
<td>1.5</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>withstand voltage</td>
<td>for 1 minute</td>
<td>1,500</td>
<td></td>
<td>Vac</td>
<td></td>
</tr>
<tr>
<td>contact resistance</td>
<td>at 500 Vdc for 1 minute</td>
<td>100</td>
<td></td>
<td>MΩ</td>
<td></td>
</tr>
<tr>
<td>insulation resistance</td>
<td>0.3 1.5 kgf</td>
<td></td>
<td></td>
<td>kgf</td>
<td></td>
</tr>
<tr>
<td>operating temperature</td>
<td>-25 80 °C</td>
<td></td>
<td></td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>life</td>
<td>100 cycles</td>
<td></td>
<td></td>
<td>cycles</td>
<td></td>
</tr>
<tr>
<td>safety approvals</td>
<td>compliant with IEC61076-2-104</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>flammability rating</td>
<td>see material table</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RoHS</td>
<td>yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP level</td>
<td>IP67 (in mated condition)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>packaging</td>
<td>box QTY: 200 pcs per box</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>carton size: 270 x 215 x 107 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>carton QTY: 600 pcs per carton</td>
<td></td>
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</tbody>
</table>

SOLDERABILITY

<table>
<thead>
<tr>
<th>parameter</th>
<th>conditions/description</th>
<th>min</th>
<th>typ</th>
<th>max</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>hand soldering</td>
<td>for maximum 3 seconds</td>
<td>360</td>
<td>380</td>
<td>400</td>
<td>°C</td>
</tr>
</tbody>
</table>

PART NUMBER KEY

CDM809 - XXX - FW - F010 - 050 - 67

Base Number
No. of Poles:
03A = 3 (A-Coding)
04A = 4 (A-Coding)
05B = 5 (B-Coding)
06A = 6 (A-Coding)
08A = 8 (A-Coding)
MECHANICAL DRAWING

units: mm
tolerance:
0.5<X≤8.0: ±0.1 mm
8.0<X≤30.0: ±0.2 mm
unless otherwise noted

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>PLATING/COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>M8x1.0 screw</td>
<td>brass</td>
<td>nickel</td>
</tr>
<tr>
<td></td>
<td>M10x0.75 screw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>terminals; female</td>
<td>brass</td>
<td>gold</td>
</tr>
<tr>
<td>C</td>
<td>housing; female</td>
<td>PA66 [UL94V-0]</td>
<td>black</td>
</tr>
<tr>
<td>D</td>
<td>M10x0.75 nut</td>
<td>brass</td>
<td>nickel</td>
</tr>
<tr>
<td>E</td>
<td>resin</td>
<td>epoxy resin</td>
<td>black</td>
</tr>
<tr>
<td>F</td>
<td>o-ring</td>
<td>FKM</td>
<td>black</td>
</tr>
<tr>
<td>G</td>
<td>o-ring</td>
<td>FKM</td>
<td>orange</td>
</tr>
<tr>
<td>H</td>
<td>wire</td>
<td>UL 1061 L=505 mm</td>
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</table>

Recommended Panel Cutout

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<table>
<thead>
<tr>
<th>No. of Poles</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
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</thead>
<tbody>
<tr>
<td>A-Coding</td>
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<tr>
<td>Wire Size</td>
<td>24 AWG</td>
<td>24 AWG</td>
<td>24 AWG</td>
<td>26 AWG</td>
<td>26 AWG</td>
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<tr>
<td>Pin #</td>
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<td>brown</td>
<td>brown</td>
<td>brown</td>
<td>white</td>
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<td></td>
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<td>white</td>
<td>brown</td>
<td>brown</td>
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<tr>
<td></td>
<td>blue</td>
<td>blue</td>
<td>blue</td>
<td>blue</td>
<td>red</td>
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Additional Resources: Product Page
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**REVISION HISTORY**

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<th>rev.</th>
<th>description</th>
<th>date</th>
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<tr>
<td>1.0</td>
<td>initial release</td>
<td>07/20/2022</td>
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<tr>
<td>1.01</td>
<td>logo, datasheet style update</td>
<td>08/05/2022</td>
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The revision history provided is for informational purposes only and is believed to be accurate.