Fuse Holder consisting of carrier and base for mounting fuse links have been in use for long. Keeping operators’ safety and ease / reliability of removal in mind, a complete range of unique CAM operated “Cam Lock Fuse Holder” are now offered to suit varied application for protection of distribution and motor circuits.

Range:
20A, 32A, 63A & 100A in front connection, bus bar connection & rear connection versions.

Specification:
Conforms to IEC:60269-1 & 2-1 / IS: 13703-1 & 2-1

Features:
• Single case construction
• High breaking capacity withstand
• Smooth removal of fuse carrier with the fuse by CAM operated lever.
• Live parts completely shrouded.
• Dual termination facility for bus bar & cable connection.
• Three types of connection to suit different application needs.
• Provided with both DIN rail & screw mounting facility.
• Liberal terminal capacity,
Housing :
Fuse holder is a combination of fuse base and fuse carrier. The base is a fixed part provided with terminals & shrouds and carrier is the movable part (designed to carry a fuse link) operated by a cam lever which engages the carrier mounted with the fuse to the fuse base. For removal of fuse, the lever is operated which disengages the carrier along with the fuse from the base thereby facilitating the removal of fuse from the carrier. The housing is made of thermo-plastic, flame retardant material having excellent thermal, mechanical & dielectric properties. It is a single case construction ensuring housing robustness.

Contacts :
Contacts are made of copper & silver for longer contact life, to increase the current carrying capacity and to ensure temperature rise is well within the specified limits.

Terminals :
The terminals are casted, silver plated and spring loaded. Current carrying parts are made of superior quality, cast brass and phosphor bronze.

Mounting :
The fuse holder is suitable for DIN rail (35mm x 7.5mm) mounting as per IS:11039. They are also suitable for panel mounting with M-5 screws / Bus bar mounting with brass nut.
### Technical Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Front Connection</th>
<th>Bus Bar Connection</th>
<th>Rear Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard conformity</strong></td>
<td>IS: 13703 (Part 2 sec. 1) : 1993 60269-2-1 : 2000-03</td>
<td><strong>Rated current (In)</strong></td>
<td>20A, 32A, 63A, 100A</td>
</tr>
<tr>
<td><strong>Rated voltage (Un)</strong></td>
<td>415V AC*</td>
<td>415V AC*</td>
<td>415V AC*</td>
</tr>
<tr>
<td><strong>Rated Insulation Voltage</strong></td>
<td>500V AC</td>
<td>500V AC</td>
<td>500V AC</td>
</tr>
<tr>
<td><strong>Rated Frequency</strong></td>
<td>50Hz</td>
<td>50Hz</td>
<td>50Hz</td>
</tr>
<tr>
<td><strong>No. of Pole</strong></td>
<td>FH-1 20A &amp; 32A</td>
<td>Single Pole</td>
<td>Single Pole</td>
</tr>
<tr>
<td><strong>Rated power acceptance</strong></td>
<td>FH-2 32A</td>
<td>4.4W</td>
<td>4.4W</td>
</tr>
<tr>
<td></td>
<td>FH-3 63A</td>
<td>6.9W</td>
<td>6.9W</td>
</tr>
<tr>
<td></td>
<td>FH-4 100A</td>
<td>9.1W</td>
<td>9.1W</td>
</tr>
<tr>
<td><strong>Rated peak withstand current</strong></td>
<td>&gt; 80KA</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Size of Fuse link</strong></td>
<td>FH-1 20A &amp; 32A</td>
<td>F1</td>
<td>F1</td>
</tr>
<tr>
<td></td>
<td>FH-2 32A</td>
<td>A2</td>
<td>A2</td>
</tr>
<tr>
<td></td>
<td>FH-3 63A</td>
<td>A3</td>
<td>A3</td>
</tr>
<tr>
<td></td>
<td>FH-4 100A</td>
<td>A4</td>
<td>A4</td>
</tr>
<tr>
<td><strong>Permissible ambient temperature</strong></td>
<td>(-5°C to +55°C)</td>
<td>(-5°C to +55°C)</td>
<td>(-5°C to +55°C)</td>
</tr>
<tr>
<td><strong>Mechanical durability</strong></td>
<td>2000</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td><strong>Degree of protection</strong></td>
<td>IP 20</td>
<td>IP 20</td>
<td>IP 20</td>
</tr>
<tr>
<td><strong>Terminals capacity</strong></td>
<td>FH-1 20A &amp; 32A</td>
<td>10 sq.mm.</td>
<td>10 sq.mm.</td>
</tr>
<tr>
<td></td>
<td>FH-2 32A</td>
<td>35 sq.mm.</td>
<td>35 sq.mm.</td>
</tr>
<tr>
<td></td>
<td>FH-3 63A</td>
<td>35 sq.mm.</td>
<td>35 sq.mm.</td>
</tr>
<tr>
<td></td>
<td>FH-4 100A</td>
<td>50 sq.mm.</td>
<td>50 sq.mm.</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x D)</strong></td>
<td>FH-1 20A &amp; 32A</td>
<td>74 x 25.5 x 45.5</td>
<td>74 x 25.5 x 45.5</td>
</tr>
<tr>
<td></td>
<td>FH-2 32A</td>
<td>113 x 34.8 x 60</td>
<td>113 x 34.8 x 60</td>
</tr>
<tr>
<td></td>
<td>FH-3 63A</td>
<td>113 x 34.8 x 60</td>
<td>113 x 34.8 x 60</td>
</tr>
<tr>
<td></td>
<td>FH-4 100A</td>
<td>125 x 40.0 x 63.4</td>
<td>125 x 40.0 x 63.4</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>FH-1 20A &amp; 32A</td>
<td>- (FC)</td>
<td>- (BB)</td>
</tr>
<tr>
<td></td>
<td>FH-2 32A</td>
<td>0.224 kg</td>
<td>0.248 kg</td>
</tr>
<tr>
<td></td>
<td>FH-3 63A</td>
<td>0.224 kg</td>
<td>0.248 kg</td>
</tr>
<tr>
<td></td>
<td>FH-4 100A</td>
<td>0.338 kg</td>
<td>0.360 kg</td>
</tr>
</tbody>
</table>

1. Fuse carrier suitable for offset tag fuse links only.
2. Fuse link size:
   - F1 (type of fuse HNS)
   - A2 (type of fuse HTIA)
   - A3 (type of fuse HTSS)
   - A4 (type of fuse HTSD)

**FC** - Front connection  
**BB** - Bus Bar connection  
**RC** - Rear connection
### Ordering Information

#### Front Connection

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>Type of Fuse</th>
<th>Type of Connection</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20A</td>
<td>HNS</td>
<td>Cable</td>
<td>IHVONSH020</td>
</tr>
<tr>
<td>32A</td>
<td>HTIA</td>
<td>Cable</td>
<td>IHVTIAH032</td>
</tr>
<tr>
<td>63A</td>
<td>HTSS</td>
<td>Cable</td>
<td>IHVTSSH063</td>
</tr>
<tr>
<td>100A</td>
<td>HTSD</td>
<td>Cable</td>
<td>IHVTSDH100</td>
</tr>
</tbody>
</table>

#### Bus Bar Connection

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>Type of Fuse</th>
<th>Type of Connection</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20A</td>
<td>HNS</td>
<td>Bus Bar</td>
<td>IHVONSB020</td>
</tr>
<tr>
<td>32A</td>
<td>HTIA</td>
<td>Bus Bar</td>
<td>IHVTIAB032</td>
</tr>
<tr>
<td>63A</td>
<td>HTSS</td>
<td>Bus Bar</td>
<td>IHVTSSB063</td>
</tr>
<tr>
<td>100A</td>
<td>HTSD</td>
<td>Bus Bar</td>
<td>IHVTSDB100</td>
</tr>
</tbody>
</table>

#### Rear Connection

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>Type of Fuse</th>
<th>Type of Connection</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20A</td>
<td>HNS</td>
<td>Bus Bar</td>
<td>IHVONSR020</td>
</tr>
<tr>
<td>32A</td>
<td>HTIA</td>
<td>Bus Bar</td>
<td>IHVTIAR032</td>
</tr>
<tr>
<td>63A</td>
<td>HTSS</td>
<td>Bus Bar</td>
<td>IHVTSSR063</td>
</tr>
<tr>
<td>100A</td>
<td>HTSD</td>
<td>Bus Bar</td>
<td>IHVTSDR100</td>
</tr>
</tbody>
</table>
Havells

**Fuse Link Size A2, A3, A4**

**HBS Fuse Holders-Bolted Type Size A2 & A3, A4**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat.No.</th>
<th>Max Voltage Rating (ac)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>G</th>
<th>Fuse Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>32A HRC FF Cam Lock Front Connection</td>
<td>IHVTIAH032</td>
<td>660V</td>
<td>34.8</td>
<td>113</td>
<td>60.0</td>
<td>21.2</td>
<td>80.8</td>
<td>HTIA</td>
</tr>
<tr>
<td>32A HRC FF Cam Lock BUS BAR Connection</td>
<td>IHVTIAB032</td>
<td>660V</td>
<td>34.8</td>
<td>113</td>
<td>60.0</td>
<td>21.2</td>
<td>80.8</td>
<td>HTIA</td>
</tr>
<tr>
<td>32A HRC FF Cam Lock Rear Connection</td>
<td>IHVTIAR032</td>
<td>660V</td>
<td>34.8</td>
<td>113</td>
<td>60.0</td>
<td>21.2</td>
<td>80.8</td>
<td>HTIA</td>
</tr>
<tr>
<td>63A HRC FF Cam Lock Front Connection</td>
<td>IHVTSSH063</td>
<td>660V</td>
<td>34.8</td>
<td>113</td>
<td>60.0</td>
<td>21.2</td>
<td>80.8</td>
<td>HTSS</td>
</tr>
<tr>
<td>63A HRC FF Cam Lock BUS BAR Connection</td>
<td>IHVTSSB063</td>
<td>660V</td>
<td>34.8</td>
<td>113</td>
<td>60.0</td>
<td>21.2</td>
<td>80.8</td>
<td>HTSS</td>
</tr>
<tr>
<td>63A HRC FF Cam Lock Rear Connection</td>
<td>IHVTSSR063</td>
<td>660V</td>
<td>34.8</td>
<td>113</td>
<td>60.0</td>
<td>21.2</td>
<td>80.8</td>
<td>HTSS</td>
</tr>
<tr>
<td>100A HRC FF Cam Lock Front Connection</td>
<td>IHVTSDH100</td>
<td>660V</td>
<td>40.0</td>
<td>125</td>
<td>63.4</td>
<td>23.0</td>
<td>90.5</td>
<td>HTSD</td>
</tr>
<tr>
<td>100A HRC FF Cam Lock BUS BAR Connection</td>
<td>IHVTSDB100</td>
<td>660V</td>
<td>40.0</td>
<td>125</td>
<td>63.4</td>
<td>23.0</td>
<td>90.5</td>
<td>HTSD</td>
</tr>
<tr>
<td>100A HRC FF Cam Lock Rear Connection</td>
<td>IHVTSDR100</td>
<td>660V</td>
<td>40.0</td>
<td>125</td>
<td>63.4</td>
<td>23.0</td>
<td>90.5</td>
<td>HTSD</td>
</tr>
</tbody>
</table>

**HBS FUSE HOLDERS-Bolted Type Size F1**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat.No.</th>
<th>Max Voltage Rating (AC)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>G</th>
<th>Fuse Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>32A HBC FF Cam Lock Front Connection</td>
<td>IHVONSH032</td>
<td>500V</td>
<td>25.5</td>
<td>74</td>
<td>45.5</td>
<td>19</td>
<td>57.0</td>
<td>HNS</td>
</tr>
<tr>
<td>32A HBC FF Cam Lock Bus Bar Connection</td>
<td>IHVONSB032</td>
<td>500V</td>
<td>25.5</td>
<td>74</td>
<td>45.5</td>
<td>19</td>
<td>57.0</td>
<td>HNS</td>
</tr>
<tr>
<td>32A HBC FF Cam Lock Rear Connection</td>
<td>IHVONSR032</td>
<td>500V</td>
<td>25.5</td>
<td>74</td>
<td>45.5</td>
<td>19</td>
<td>57.0</td>
<td>HNS</td>
</tr>
</tbody>
</table>