INDUSTRIAL PLUGS & SOCKETS
SS - TYPE

BCH ELECTRIC LIMITED
Industrial Plugs & Sockets

OFF-LOAD Decontactor - SS Type

BCH Industrial Plugs and Sockets (off-load Decontactors) combine simplicity, convenience and reliability. Their unique design makes use of the concept of spring-loaded butt-type contacts, instead of the conventional concept of pin-and-sleeve type.

BIL Industrial Plugs and Sockets are available in several contact combinations both for power as well as control circuits. They have advantages like positive, bayonet-type fitting between plugs and sockets, shrouding of live parts from accidental human touch, reliable earthing through butt-type silver-tipped contact. They are suitable for outdoor applications and for use under conditions of high vibrations. Plugs and sockets up to 5 pins for power circuit are rated for 30A at 500V and those meant for use on control circuits, up to 12 pins, have ratings of 12A at 500V.

Butt-type silver contacts

- Pre-determined optimum contact pressure for high conductivity.
- Low contact-resistance-low temperature-rise.
- Infinite plug interchangeability with consistent contact pressure i.e. no difference in contact-pressure with new or old plugs.
- Non-deteriorating contact carrying surface.
- Self aligning, self wiping contacts i.e. contacts wipe and align when the plug has been fully inserted.
- Reliability of silver contacts unaffected in high temperature conditions.

Interchangeability of interiors

The interiors of Plugs and sockets are interchangeable and are retained by cir-clips. The easy interchangeability enables many different arrangements to be made up from a minimum stock of components.

Earthing

The earth contact is always in the central position thus eliminating the possibility of inadvertently connecting a live contact to earth. It is also impossible to lodge or wedge bare conductors in the socket to obtain a supply.

Socket cover

The socket is fitted with a strong spring closed gasketed cover making the unit suitable for outdoor use.

Self Locking design

The plug cannot be pulled out of the socket by its cable or fall out on its own due to positive bayonet type fitting.
### Electrical and Mechanical Ratings

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>PLUGS AND SOCKETS FOR USE ON POWER CIRCUITS</th>
<th>PLUGS AND SOCKETS FOR USE ON CONTROL CIRCUITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact options</td>
<td>2P + E&lt;br&gt; 1P + E + N&lt;br&gt; 3P + E&lt;br&gt; 3P + E + N</td>
<td>Upto 12 contacts</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>500V AC and DC</td>
<td>500V AC and DC</td>
</tr>
<tr>
<td>Thermal current (Ith)</td>
<td>30A (Copper cable)&lt;br&gt; 20A (Alum. Cable)</td>
<td>12A (Copper cable)&lt;br&gt; 8A (Alum. Cable)</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>Less than 1m ohm</td>
<td>Less than 1m ohm</td>
</tr>
<tr>
<td>Contact pressure</td>
<td>1.2 kg. (min.)&lt;br&gt; 1.35 kg. (max.)</td>
<td>1 kg. (min.)&lt;br&gt; 1.15 kg. (max.)</td>
</tr>
<tr>
<td>Mechanical and electrical life</td>
<td>10,000 operations</td>
<td>10,000 operations</td>
</tr>
<tr>
<td>Conduit entry</td>
<td>3/4” dia</td>
<td>3/4” dia</td>
</tr>
<tr>
<td>Terminal capacity</td>
<td>6mm²</td>
<td>1.5mm²</td>
</tr>
<tr>
<td>Terminations</td>
<td>Spring loaded</td>
<td>Solder type</td>
</tr>
</tbody>
</table>

### Approvals
- Electronics Components Standardisation Organisation, Ministry of Defence, Bangalore, as per JSS 508 19.
- Nirikshan Niyantaralaya (Vahan), Ahmednagar, for application on Vehicles and Trailors
- Central Machine Tools Institute, Bangalore, as per IEC: 309A

### Selection chart

#### POWER CIRCUIT APPLICATIONS

<table>
<thead>
<tr>
<th>Contact options</th>
<th>2P+E*&lt;br&gt; 1P+N+E&lt;br&gt; 3P+E&lt;br&gt; 3P+N+E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position contacts</td>
<td><img src="image" alt="Position Contacts" /></td>
</tr>
<tr>
<td>Panel mounting socket</td>
<td>2415B&lt;br&gt; 2413B&lt;br&gt; 2417B</td>
</tr>
<tr>
<td>Plug with inclined handle</td>
<td>215B&lt;br&gt; 213B&lt;br&gt; 217B</td>
</tr>
</tbody>
</table>

#### POWER CIRCUIT APPLICATIONS

<table>
<thead>
<tr>
<th>No. of contacts</th>
<th>Panel mounting socket</th>
<th>Plug with inclined handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>2499/12</td>
<td>299/12B</td>
</tr>
</tbody>
</table>

* Available on request
Control Circuit Applications

Position of the contacts looking on the front of the socket

Panel mounting socket

Dimensions(mm)

Power Circuit Applications

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