The PC100 is a miniature series single pole single throw contactor designed for printed circuit board mounting. Devised for both interrupted and uninterrupted loads, the PC100 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include Telecommunication, UPS and other power conversion systems.

- **Interrupted current** - opening and closing on load with frequent switching (results in increased contact resistance).
- **Uninterrupted current** - no or infrequent load switching requirements (maintains a lower contact resistance).

The PC100 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The PC100 can be secured to the printed circuit board by means of an M4 bolt.

![PC100 Contactor Performance](image)

**Auxiliary Details**
- **Auxiliary Thermal Current Rating**: 5A
- **Auxiliary Contact Switching Capabilities (Resistive Load)**:
  - 5A at 24V D.C.
  - 7A at 60V D.C.
  - 0.5A at 120V D.C.
  - 0.25A at 240V D.C.

**Advise Connection Sizes for Maximum Continuous Current**
- **Rated suitable for Application**
- **Contact Performance Key**:
  - Interrupted & Uninterrupted Current

**PC100 Available Options**

<table>
<thead>
<tr>
<th>General</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auxiliary Contacts</td>
<td>A</td>
</tr>
<tr>
<td>Auxiliary Contacts - V4</td>
<td>X</td>
</tr>
<tr>
<td>Magnetic Blowouts</td>
<td>B</td>
</tr>
<tr>
<td>Magnetic Blowouts - High Powered</td>
<td>X</td>
</tr>
<tr>
<td>Armature Cap</td>
<td>X</td>
</tr>
<tr>
<td>Mounting Base (see overleaf)</td>
<td>X</td>
</tr>
<tr>
<td>Magnetic Latching (Not fail safe)</td>
<td>M</td>
</tr>
<tr>
<td>Closed Contact Housing</td>
<td>X</td>
</tr>
<tr>
<td>Environmentally Protected IP66</td>
<td>P</td>
</tr>
<tr>
<td>EE Type (Steel Shroud)</td>
<td>X</td>
</tr>
</tbody>
</table>

**Contacts**
- **Large Tips** | X |
- **Textured Tips** | T |
- **Silver Plating** | X |
- **Washable** | W |

**Coil**
- **AC Rectifier Board (Fitted)** | X |
- **Coil Suppression** | X |
- **Flying Leads** | X |
- **Manual Override Operation** | X |
- **M4 Stud Terminals** | X |
- **MS Terminal Board** | X |
- **Vacuum Impregnation** | X |

**Key**:
- **Circuit Board Tracks**
- **Key**:
  - ▣ Interrupted
  - ▣ Uninterrupted

- **Note**:
  - Where applicable values shown are at 20°C

- **Contact Performance**
  - **Time (Seconds)**
  - **Current (Amperes)**

- **Connection Diagram**
- **Key**: Optional ○ Standard ● Not Available X

- **Connections become polarity sensitive**
- **Enveloped top cover standard when blowouts not fitted**
- **Not Suitable with Mounting Base**
Mounting Boards

All configurations of the PC100 can be supplied with an optional separate mounting base which can be soldered to the circuit board. After soldering and washing the printed circuit board, the PC contactor can be plugged into the base and secured by means of an M4 nut on the underside of the board. Removal for servicing or replacement is possible by removal of the nut and unplugging the PC contactor from the base.

PC100 with Mounting Base Drawing

Installation

To accommodate the PC Contactors, printed circuit boards should be drilled in accordance with the mounting details opposite. Prior to soldering, the PC100 can be secured to the circuit board by means of an M4 bolt which protrudes from the underside of the contactor.

If the full current ratings of the contactors are to be utilised, circuit board tracks should have the appropriate thickness and width of copper. Conventional hand or wave soldering techniques can be used.

Mounting Detail

Washable Contactors and Auxiliary Contacts (PC100AW)

Normally the auxiliary contacts are supplied already fitted to the contactor. However, if the printed circuit boards are to be washed after soldering, the auxiliary contact is supplied separately and the contactor is temporarily sealed with a rubber plug. After washing this is removed and the auxiliary contact can then be fitted.

Note: The PC100AW contactors (with or without optional mounting board) are not therefore fully protected against the environment to the same degree as the PC100P.