The SW140 has been specifically designed to be installed within the confines of a Power Distribution System 1U rack. This compact busbar mounted contactor follows the recognised design of the SW150 series of contactors and is devised for uninterrupted loads. They are primarily for use with direct current loads but can be used for alternating current loads.

**Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).**

The SW140 features single pole double breaking main contacts with silver alloy tips which are weld resistant, hard wearing and have excellent conductivity. Silver plating on the main contacts is standard for the SW140, however optionally it can be excluded from the specification. Mounting can either be horizontal or vertical, but if mounted vertically, the coil should be at the bottom. If the coil is required at the top, we can adjust the contactor to compensate for this. The SW140 is easy to install, with “L” Shape mounting bracket kits fitted as a standard option, or alternatively the M4 tapped holes in the switch frame can be used. To suit the limitations of space of a 1U rack, the coil connections are supplied as flying leads.

---

**Coil Power Dissipation:**

- **Highly Interrupted Rated Types:** 20 - 30 Watts
- **Intermittently Rated Types:** 15 - 20 Watts
- **Prolonged Rated Types:** 13 - 15 Watts
- **Continuously Rated Types:** 7 - 13 Watts

**Maximum Pull-In Voltage (Coil at 20°C):**

- **Highly Interrupted Rated Types (Max 25% Duty Cycle):** 60% \( U_2 \)
- **Intermittently Rated Types (Max 70% Duty Cycle):** 60% \( U_2 \)
- **Prolonged Operation (Max 50% Duty Cycle):** 60% \( U_2 \)
- **Continuously Rated Types (100% Duty Cycle):** 66% \( U_2 \)

**Typical Contact Bounce Period:**

- 5ms

**Typical Total Time (Max 90% Duty Cycle):**

- 300s

**Prolonged Total Time (Max 70% Duty Cycle):**

- 900s

**Operating Ambient Temperature:**

- -40°C to + 60°C

**Typical Dielectric Breakdown Voltage:**

- 400V

**Mechanical Durability:**

- 1 x 10⁵ Cycles

**Guideline Contactor Weight:**

- 440g

**Auxiliary Details:**

- **Auxiliary Contact Rating:** 5A

**Advised Connection Sizes for Maximum Continuous Current:**

- Copper busbar: .060"² x .020"² (1.49mm² x 0.51mm²)
- Cable: Rated suitable for Application

---

**Connection Diagram**

---

**Auxiliary Contacts**

- [ ] N/C
- [ ] N/O

---

**Contact Performance Key:**

- **Uninterrupted Current**

---

**Auxiliary Available Options**

<table>
<thead>
<tr>
<th>Suffix</th>
<th>General</th>
<th>Auxiliary Contacts</th>
<th>Magnetic Blowouts</th>
<th>Magnetic Blowouts - High Powered</th>
<th>Armature Cap</th>
<th>Mounting Brackets (fitted as standard)</th>
<th>Magnetic Latching (Not fail safe)</th>
<th>Closed Contact Housing</th>
<th>Environmentally Protected IP66</th>
<th>EE Type (Steel Shroud)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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

- Please check our web site for product UL status