The SW84 with Junior Power Timer (JPT) Connector has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW84 is suitable for switching Resistive, Capacitive and Inductive loads.

- **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 SW84 features single pole double throw, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW84 has M8 stud main terminals and 6.3mm spade coil connections. It can be mounted via M4 tapped holes or mounting brackets – either supplied fitted, or as separate items. Mounting can be horizontal or vertical, when vertical the M8 contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this. Please note Normally Closed contacts are not suited to make and break load.

### SW84 with JPT Connector

#### Key Features:
- Single Pole Double Throw
- Double Breaking Main Contacts
- Silver Alloy Tips
- M8 Stud Main Terminals
- 6.3mm Spade Coil Connections
- Mounting Brackets
- 100% Duty Cycle
- Prolonged Operation (Max 70% Duty Cycle)
- Intermittently Rated (Max 50% Duty Cycle)
- Highly Intermittent Rated (Max 25% Duty Cycle)
- Rated at 800A at 48V D.C.
- Maximum Rated Fault Current Breaking Capacity (On) 5ms Time Constant: (In accordance with UL583)*

### SW84 with JPT Connector Diagram

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### Table: SW84 Contactor Performance

<table>
<thead>
<tr>
<th>Application</th>
<th>Interrupted</th>
<th>Uninterrupted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Current Rating (°C)</td>
<td>100A</td>
<td>125A</td>
</tr>
<tr>
<td>Intermittent Current Rating</td>
<td>60% U</td>
<td>60% U</td>
</tr>
<tr>
<td>30% Duty</td>
<td>185A</td>
<td>230A</td>
</tr>
<tr>
<td>40% Duty</td>
<td>160A</td>
<td>200A</td>
</tr>
<tr>
<td>50% Duty</td>
<td>140A</td>
<td>175A</td>
</tr>
<tr>
<td>60% Duty</td>
<td>130A</td>
<td>160A</td>
</tr>
<tr>
<td>70% Duty</td>
<td>120A</td>
<td>150A</td>
</tr>
</tbody>
</table>

*Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.

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### SW84 with JPT Connector Options

- **Auxiliary Contacts**
- **Auxiliary Contacts - V3**
- **Magnetic Blowouts**
- **Magnetic Blowouts - High Powered**
- **Armature Cap**
- **Mounting Brackets**
- **Magnetic Latching** (Not fail safe)
- **Closed Contact Housing**
- **Environmentally Protected IP66**
- **EE Type (Steel Shroud)**

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### Contact Performance Key

- **Interrupted Current**
- **Uninterrupted Current**

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### Contact Diagram

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### Contact Performance Figures

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### Auxiliary Details

- **Auxiliary Thermal Current Rating**: 5A
- **Auxiliary Contact Switching Capabilities (Resistive Load)**:
  - **SW84C**
    - 5A at 24V D.C.
    - 2A at 48V D.C.
    - 0.5A at 240V D.C.
  - **SW84A**
- **Advised Connection Sizes for Maximum Continuous Current**
  - Copper busbar: 80mm² (0.124"")
  - Cable: Rated suitable for Application

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

*Please check our website for product UL status

*See catalogue for full details.

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