The SW88 has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW88 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 (maintains a lower contact resistance).

The SW88 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW88 main contact circuit, designed for motor reversing, is such that it has a built in failsafe, so that if both coils are energized simultaneously the contact arrangement is open circuits. The SW88 has M8 stud main terminals and 6.3mm spaced coil connections. Mounted using supplied brackets, 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.

### SW88 Contact Performance

- **Interrupted and Uninterrupted**
- **Thermal Current Rating (100%):** 250A, 350A
- **Intermittent Current Rating:**
  - 60% Duty Cycle: 200A
  - 50% Duty Cycle: 180A
  - 40% Duty Cycle: 160A

### Connection Diagram

- **SW88C**
- **SW88A**

### SW88 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 - V3</td>
<td>C</td>
</tr>
<tr>
<td>Magnetic Blowouts</td>
<td>B</td>
</tr>
<tr>
<td>Magnetic Blowouts - High Powered</td>
<td>D</td>
</tr>
<tr>
<td>Armature Cap</td>
<td></td>
</tr>
<tr>
<td>Mounting Brackets</td>
<td></td>
</tr>
<tr>
<td>Magnetic Latching</td>
<td>M</td>
</tr>
<tr>
<td>Closed Contact Housing</td>
<td></td>
</tr>
<tr>
<td>Environmentally Protected</td>
<td>X</td>
</tr>
<tr>
<td>EE Type (Steel Shroud)</td>
<td>X</td>
</tr>
</tbody>
</table>

### Contacts

- **Large Tips**: L
- **Textured Tips**: T
- **Silver Plating**: X

### Coil

- **AC Rectifier Board (Fitted)**
- **Coil Suppression**
- **Flying Leads**: F
- **Manual Override Operation**: X
- **M4 Stud Terminals**: X
- **M8 Terminal Board**: X
- **Vacuum Impregnation**: X

**Key**

- **Optional**
- **Standard**
- **Not Available**

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**Auxiliary Details**

- **Auxiliary Thermal Current Rating**: 5A
- **Auxiliary Contact Switching Capabilities (Resistive Load)**:
  - SW88C
  - SW88A
  - 5A at 24V D.C.
  - 2A at 48V D.C.
  - 0.5A at 240V D.C.

**Advised Connection Sizes for Maximum Continuous Current**

- **Copper busbar**: 80mm² (0.124inch²)
- **Cable**: Rated suitable for application

**Main Contact Change over time (milliseconds)**

- Normally Closed to Normally Open: 7ms
- Normally Open to Normally Closed: 4ms
- Typical Contact Bounce Period: 3ms
- Operating Ambient Temperature: -40°C to +60°C

**Guideline Contact Weight**: SW88 910 gms

**With Auxiliary**: + 20 gms

**With Blowouts**: + 50 gms

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- **Contact Performance Key**
  - **Interrupted**
  - **Uninterrupted**

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**Auxiliary Contact Switching Capabilities (Inductive Load)**

- **Rated suitable for Application**

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

- *Please check our web site for product UL status

- **Open Housing Available**

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**Dimensions in mm [inches]**

- M6 Main Terminals to be tightened within range 6 - 8mm

- Optimal Microswitch Auxiliary Contacts with 6.3mm [0.25] Spade Terminals can be fitted here

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If you have any questions or need further assistance, please feel free to contact Albright International, Ltd. at sales@albrightinternational.com or technical@albrightinternational.com.