The SW82 type of contactors 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 SW82 is suitable for switching Resistive, Capacitive and Inductive loads.

**Application**

<table>
<thead>
<tr>
<th>Interrupted</th>
<th>Uninterrupted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Current Rating (100%)</td>
<td>100A</td>
</tr>
</tbody>
</table>

**Interruption Current Rating:**
- 30% Duty: 185A
- 40% Duty: 160A
- 50% Duty: 140A
- 60% Duty: 130A
- 70% Duty: 120A

**Rated Fault Current Breaking Capacity**: (in accordance with UL583™)
- SW82: 800A at 80V

**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_b
- Intermittently Rated Types (Max 70% Duty Cycle): 60% U_b
- Prolonged Rated Operation (Max 50% Duty Cycle): 60% U_b
- Continuously Rated Types (100% Duty Cycle): 60% U_b

**Drop-Out Voltage Range:**
- 10 - 25% U_b

**Typical Pull-In Time:** 20ms

**Typical Drop-Out Time (N/O Contacts to Open):**
- Without Suppression: 5ms
- With Diode Suppression: 50ms
- With Diode and Resistor (subject to resistance value): 8 - 20ms

**Operating Ambient Temperature:** -40°C to +60°C

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

The SW82 features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The contactors are compact in size and are fully serviceable with a full range of spare parts available. The SW82 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.

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**Advised Connection Sizes for Maximum Continuous Current**

<table>
<thead>
<tr>
<th>Copper busbar</th>
<th>85mm² (0.1inch²)</th>
</tr>
</thead>
</table>

**Connection Diagram**

- ** interrupting and unInterrupted current**
- Figures are for guideline purposes only

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**Auxiliary Contacts**

- **X**: Standard
- **○**: Not Available
- **△**: Optional

**Contact Key:**
- Open House Available
- Connections become polarity sensitive

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**Specifications:**

- Rated current: 100A
- Rated voltage: 240V D.C.
- Mechanical durability: >5 x 10⁶ cycles
- Mechanical blowouts: (see catalogue)
- Magnetic blowouts: (not fail safe)
- Magnetic blowouts - high powered
- Armure cap
- Mounting brackets: (not fail safe)
- Magnetic latching (fail safe)
- Closed contact housing: (see catalogue)
- Environmentally protected IP66
- EE type (steel shrouded)

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**Contact Dimensions:**

- Dimensions in mm [inches]

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**Product Information:**

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