The SW64 is a miniature series single pole, free standing, compact contactor. It is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and uninterrupted loads, the SW64 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include switching small traction motors, hydraulic power packs and small electric winch motors.

- **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 SW64 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW64 has M6 stud main terminals and 6.3mm spade coil connections and can be mounted via M4 tapped holes or mounting brackets, either supplied fitted, or as separate items. Mounting can be on the side or base of the contactor.

### SW64 Available Options

<table>
<thead>
<tr>
<th>Application</th>
<th>Interrupted</th>
<th>Uninterrupted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Current Rating (A)</td>
<td>80A</td>
<td></td>
</tr>
<tr>
<td>Intermittent Duty Rating</td>
<td>145A</td>
<td></td>
</tr>
<tr>
<td>40% Duty</td>
<td>125A</td>
<td></td>
</tr>
<tr>
<td>50% Duty</td>
<td>115A</td>
<td></td>
</tr>
<tr>
<td>60% Duty</td>
<td>105A</td>
<td></td>
</tr>
<tr>
<td>70% Duty</td>
<td>95A</td>
<td></td>
</tr>
<tr>
<td>Rated Fault Current Breaking Capacity (A)</td>
<td>400A</td>
<td>400A</td>
</tr>
<tr>
<td>5ms Time Constant:</td>
<td>(at 96V D.C.)</td>
<td>(at 96V D.C.)</td>
</tr>
<tr>
<td>SW64</td>
<td>400A at 48V D.C.</td>
<td>400A at 96V D.C.</td>
</tr>
<tr>
<td>SW64B</td>
<td>400A at 96V D.C.</td>
<td></td>
</tr>
<tr>
<td>Rated Auxiliary Current Breaking Capacity (A)</td>
<td>5ms Time Constant:</td>
<td></td>
</tr>
<tr>
<td>SW64</td>
<td>Resistive Load:</td>
<td></td>
</tr>
<tr>
<td>SW64B</td>
<td>(at 96V D.C.)</td>
<td></td>
</tr>
<tr>
<td>SW64</td>
<td>120A at 60V D.C.</td>
<td>120A at 60V D.C.</td>
</tr>
<tr>
<td>SW64B</td>
<td>120A at 96V D.C.</td>
<td></td>
</tr>
<tr>
<td>Maximum Recommended Contact Voltages (Uc)</td>
<td>48V D.C.</td>
<td>60V D.C.</td>
</tr>
<tr>
<td>SW64</td>
<td>48V D.C.</td>
<td>60V D.C.</td>
</tr>
<tr>
<td>SW64B</td>
<td>96V D.C.</td>
<td></td>
</tr>
<tr>
<td>Typical Voltage Drop per pole across New Contacts at 80A</td>
<td>40mV</td>
<td></td>
</tr>
<tr>
<td>Mechanical Durability</td>
<td>&gt;3 x 10⁸ Cycles</td>
<td></td>
</tr>
<tr>
<td>Coil Voltage Available (Uc) (Rectifier board required for A.C.)</td>
<td>From 6 to 130V D.C.</td>
<td></td>
</tr>
</tbody>
</table>

### Auxiliary Details

- **Auxiliary Thermal Current Rating**: 5A
- **Auxiliary Contact Switching Capabilities**: Resistive Load: 5A at 24V D.C.
  - 1A at 60V D.C.
  - 0.5A at 120V D.C.
  - 0.25A at 240V D.C.

### Advised Connection Sizes for Maximum Continuous Current

- **Copper busbar**: 52mm²[0.08Inch²]
- **Cable**: Rated suitable for application

**Key:**
- **= Interrupted**
- **= Uninterrupted**

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

- Please check our web site for product UL status

- Performance data provided should be used as a guide only. Some rating/variation from figures may be necessary according to application.
- Thermal current ratings stated are dependant upon size of conductor used
- For further technical advice email: technical@albrightinternational.com
- Albright reserve the right to change data without prior notice

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**Applications:**
- **Highly Intermittent Rated Types**: 14 - 21 Watts
- **Intermittently Rated Types**: 10 - 14 Watts
- **Prolonged Rated Types**: 7 - 10 Watts
- **Continuously Rated Types**: 5 - 7 Watts

**Maximum Pull-In Voltage (Coil at 20°C):**
- **Highly Intermittent Rated types (Max 25% Duty Cycle)**: 60% Ubc
- **Intermittently Rated types (Max 70% Duty Cycle)**: 60% Ubc
- **Prolonged Operation (Max 80% Duty Cycle)**: 80% Ubc
- **Continuously Rated Types (100% Duty Cycle)**: 66% Ubc
- **Drop-Out Voltage Range**: 10 - 25% Ubc

**Typical Pull-In Time**: 15ms

**Typical Drop-Out Time (N/O Contacts to Open):**
- **Without Suppression**: 6ms
- **With Diode Suppression**: 35ms
- **With Diode and Resistor (Subject to resistance value)**: 8 - 20ms
- **Typical Contact Bounce Period**: 3ms
- **Operating Ambient Temperature**: -40°C to +60°C
- **Guideline Contactor Weight:**
  - SW64: 405gms
  - SW64B: 200gms
  - SW64A: 95gms

**Auxiliary Contacts**
- **4 VAC MICROSWITCH AUXILIARY CONTACT WITH 0.08IN 0.25MM SPADE TERMINALS CAN BE FITTED HERE**

**Environmentally Protected IP66**

**EE Type (Steel Shroud)**: X

**Contacts**
- **Large Tips**: X
- **Textured Tips**: X
- **Silver Plating**: X

**Coil**
- **AC Rectifier Board (Fitted)**: X
- **Coil Suppression**: X
- **Flying Leads**: X
- **Manual Override Operation**: X
- **M4 Stud Terminals**: X
- **M5 Terminal Board**: X
- **Vacuum Impregnation**: X

**Key:**
- Optional ○ Standard C Not Available X

* Connections become polarity sensitive
* Enclosed top cover standard when blowouts not fitted

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**SW64 Contactor Performance**

**Contact Performance Key:**
- **Interrupted and Uninterrupted Current**

**Figures are for guideline purposes only**

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**Connection Diagram**

![Connection Diagram](image-url)