The SW250 is designed for use in telecommunications and power distribution applications where an uninterrupted load is switched. These contactors are primarily for use with Direct Current loads but can also be used with Alternating Currents.

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

The SW250 features 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 SW250, however optionally it can be excluded from the specification. The SW250 is a compact contactor which can be busbar mounted vertically or horizontally, 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. For further information on the full busbar range of contactors refer to our busbar series catalogue.

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### Application

<table>
<thead>
<tr>
<th>Thermal Current Rating (% of 250A)</th>
<th>Uninterrupted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermittent Duty Rating:</td>
<td></td>
</tr>
<tr>
<td>30% Duty</td>
<td>455A</td>
</tr>
<tr>
<td>40% Duty</td>
<td>395A</td>
</tr>
<tr>
<td>50% Duty</td>
<td>355A</td>
</tr>
<tr>
<td>60% Duty</td>
<td>325A</td>
</tr>
<tr>
<td>70% Duty</td>
<td>300A</td>
</tr>
</tbody>
</table>

### Rated Fault Current Breaking Capacity (on) Resistive Load:

- **SW250** 375A at 60V D.C.

### Maximum Recommended Contact Voltages (Uc):

- **SW250** 60V D.C.

### Coil Voltage Available (Uc) (Rectifier board required for A.C.): From 6 to 240V A.C./D.C.

### Properties:

- **Coil Power Dissipation:**
  - **Highly Intermittent Rated Types:** 20 - 30 Watts
  - **Intermittently Rated Types:** 15 - 20 Watts
  - **Prolonged Rated Types:** 13 - 15 Watts
  - **Continuously Rated Types:** 7 - 13 Watts

### Mechanical Durability:

- **Highly Intermittent Rated Types (Max 25% Duty Cycle):** 60% Ua
- **Intermittently Rated Types (Max 70% Duty Cycle):** 60% Ua
- **Prolonged Operation (Max 90% Duty Cycle):** 60% Ua
- **Continuously Rated Types (100% Duty Cycle):** 66% Ua

### Typical Pull-In Time:

- 15ms

### Typical Drop-Out Time (N/O Contacts to Open):

- 6ms

### Guideline Contactor Weight:

- **SW250** 470 gms

### Auxiliary Details:

- **Auxiliary Thermal Current Rating:** 5A

### Auxiliary Contact Switching Capabilities (Resistive Load):

<table>
<thead>
<tr>
<th>SW250C</th>
<th>SW250A</th>
</tr>
</thead>
<tbody>
<tr>
<td>5A at 24V D.C.</td>
<td></td>
</tr>
<tr>
<td>2A at 48V D.C.</td>
<td></td>
</tr>
<tr>
<td>0.5A at 240V D.C.</td>
<td></td>
</tr>
</tbody>
</table>

### Advised Connection Sizes for Maximum Continuous Current:

- Copper busbar 190mm² [0.25inch²]

### Key:

- ▲ = Uninterrupted

### Note:

- Where applicable values shown are at 20°C

### Contact Performance Key:

- **Uninterrupted Current**

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### Contacting System Performance Figures:

- **Time (Seconds):** 200, 300, 400, 500, 600, 700, 800, 900

### Connection Diagram:

- **SW250C**
- **SW250A**

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### Auxiliary Options:

- **General:** A
- **Auxiliary Contacts:** C
- **Magnetic Blowouts:** X
- **Magnetic Blowouts - High Powered:** X
- **Armature Cap:** X
- **Mounting Brackets**
- **Environmentally Protected IP66:** X
- **EE Type (Steel Shroud):** X

### SW250 Available Options

- **Auxiliary Contacts**
- **Auxiliary Contacts - V3**
- **Magnetic Blowouts**
- **Magnetic Blowouts - High Powered**
- **Armature Cap**
- **Mounting Brackets**
- **Environmentally Protected IP66**
- **EE Type (Steel Shroud)**

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<table>
<thead>
<tr>
<th>SW250A (Auxiliary Contacts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.3mm (0.25) SPACE TERMINALS FOR AUXILIARY CONTACT CONNECTIONS</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>Dimensions in mm [inches]</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW250A</td>
</tr>
<tr>
<td>6.3mm (0.25) SPACE TERMINALS FOR COIL CONNECTIONS</td>
</tr>
</tbody>
</table>

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### Figures are for guideline purposes only

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### SW250 Single Pole Single Throw Normally Open

(Part of the Busbar Series)