The SU80 with Junior Power Timer (JPT) Connector is an up-rated version of the SW80 Contactor designed for Interrupted and Uninterrupted loads. It is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include, but are not limited to, electric motors, hydraulic power packs, winches, speed controllers, UPS and Power Distribution Systems.

- **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 SU80 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. Economical in price they compare favourably with sealed automotive style solenoid switches which cannot be serviced or inspected for contact wear. Mounting can be vertical or horizontal, when vertical the MB contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.

### SU80 Contactor Performance

![SU80 Contactor Performance Diagram](image)

#### Connection Diagrams

**SU80C**

- **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)**

**SU80A**

- **Manual Override Operation**
- **M4 Stud Terminals**
- **M5 Terminal Board**
- **Vacuum Impregnation**

#### SU80 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 Contacts - V3</td>
<td>C</td>
</tr>
<tr>
<td>Magnetic Blowouts</td>
<td>B</td>
</tr>
<tr>
<td>Magnetic Blowouts - High Powered</td>
<td>B</td>
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<tr>
<td>Armature Cap</td>
<td></td>
</tr>
<tr>
<td>Mounting Brackets (see Stud Series Catalogue)</td>
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<tr>
<td>Magnetic Latching (Not fail safe)</td>
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<tr>
<td>Closed Contact Housing</td>
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<tr>
<td>Environmentally Protected IP66</td>
<td>X</td>
</tr>
<tr>
<td>EE Type (Steel Shroud)</td>
<td>EE</td>
</tr>
</tbody>
</table>

#### Auxiliary Details

- **Auxiliary Thermal Current Rating**: 5A
- **Auxiliary Contact Switching Capacities (Resistive Load)**:
  - SU80C
    - 350 mA @ 240 V D.C.
    - 2 A at 480 V D.C.
    - 0.5 A at 240 V D.C.
  - SU80A

#### Advised Connection Sizes for Maximum Continuous Current

- **Copper busbar**: 97 mm² (0.15 inches²) 129 mm² (0.20 inches²)
- **Cable**: Rated suitable for Application

### Performance Data

- **Current (Amperes)**
- **Time (Seconds)**

#### Contact Performance Key

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

### SU80 Available Options

- **Auxiliary Contacts**
- **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)**

### SU80 Available Options

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

### SU80 Available Options

- **Coil**
  - AC Rectifier Board (Fitted)
  - Coil Suppression
  - Flying Leads
  - Junior Power Timer Connector
  - Manual Override Operation
  - M4 Stud Terminals
  - M5 Terminal Board
  - Vacuum Impregnation

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* Figures are for guideline purposes only
* Connection diagrams are for design purposes only
* Key: Interrupted = I; Uninterrupted = U
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* Suffolk - 40% Duty
* Thermal current ratings stated are dependant upon the size of conductor being used
* Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.
* For further technical advice email: technical@albrightinternational.com
* Albright reserve the right to change data without prior notice.