The SU280P has been designed for direct current loads, particularly motors as used on electronic vehicles such as industrial trucks, airport tractors and such like.

- **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).

### Application Interrupted Uninterrupted

<table>
<thead>
<tr>
<th>Thermal Current Rating (100%)</th>
<th>250A</th>
<th>350A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermittent Current Rating:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30% Duty</td>
<td>450A</td>
<td>635A</td>
</tr>
<tr>
<td>40% Duty</td>
<td>390A</td>
<td>550A</td>
</tr>
<tr>
<td>50% Duty</td>
<td>360A</td>
<td>485A</td>
</tr>
<tr>
<td>60% Duty</td>
<td>320A</td>
<td>450A</td>
</tr>
<tr>
<td>70% Duty</td>
<td>300A</td>
<td>415A</td>
</tr>
</tbody>
</table>

Rated Thermal Currents stated are dependant upon the size of conductor being used and are also subject to resistance value of the circuit. For further technical advice email: technical@albrightinternational.com

| Rated Fault Current Breaking Capacity (on) 5ms Time Constant: |
|---------------------------|-----------------|-----------------|
| SU280P                    | 1500A at 48V D.C. |
| SU280BP                   | 1500A at 80V D.C. |

Rated Current (on) Resistive Load (in accordance with UL508®):

- SU280P: 525A at 60V D.C.
- SU280BP: 525A at 96V D.C.

Maximum Contact Voltage Drop per pole across New Contacts at 250A: 40mV

Mechanical Durability: >3 x 10^6 Cycles

<table>
<thead>
<tr>
<th>Coil Voltage Available (Ue) (Rectifier board required for A.C.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU280P:</td>
</tr>
<tr>
<td>From 6 to 240V A.C./D.C.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coil Power Dissipation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly Intermittent Rated Types: 40 - 50 Watts</td>
</tr>
<tr>
<td>Intermittently Rated types: 30 - 40 Watts</td>
</tr>
<tr>
<td>Prolonged Rated Types: 15 - 30 Watts</td>
</tr>
<tr>
<td>Continuously Rated Types: 10 - 15 Watts</td>
</tr>
</tbody>
</table>

Maximum Pull-In Voltage (Coil at 20°C) Guideline:

- Highly Intermittent Rated types (Max 25% Duty Cycle): 60% Ue
- Intermittently Rated types (Max 70% Duty Cycle): 60% Ue
- Prolonged Operation (Max 90% Duty Cycle): 60% Ue
- Continuously Rated Types (100% Duty Cycle): 66% Ue
- Drop-Out Voltage Range: 10 - 25% Ue
- Typical Pull-In Time: 30ms
- Typical Drop-Out Time (N/O Contacts to Open): 8ms
- Without Suppression: 8ms
- With Diode Suppression: 60ms
- With Diode and Resistor (Subject to resistance value): 25ms
- Typical Contact Bounce Period: 3ms
- Guideline Contactor Weight: 755 gms
- With Blowsouts: 50 gms

**Advise Connection Sizes for Maximum Continuous Current**

- Copper busbar: 228mm² (0.353 inc²)
- Cable: Rated suitable for Application

**Contact Performance Key**

- Interrupted Current
- Uninterrupted Current

**Connection Diagram**

**SU280P Contactor Performance**

**SU280P Available Options**

- General: Suffix
- Auxiliary Contacts: X
- Magnetic Blowouts: ○ B
- Magnetic Blowouts - High Powered: ○ B
- Armature Cap: X
- Mounting Brackets: (Right side fit standard, left optional)
- Magnetic Latching (Not fail safe): ○ M
- Closed Contact Housing: ●
- Environmentally Protected IP66: ● P
- EE Type (Steel Shroud): X

**Contacts**

- Large Tips: X
- Textured Tips: ○ T
- Silver Plating: X

**Coil**

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

**Key:**

- Optional: ○ Standard: ● Not Available: X

- Connections become polarity sensitive