

| Application | Interrupted | Uninterrupted |
|--|-------------------|---|
| Thermal Current Rating (I _{th}) | 100A | 125A |
| Intermittent Current Rating: | | |
| 30% Duty | 185A | 230A |
| 40% Duty | 160A | 200A |
| 50% Duty | 140A | 175A |
| 60% Duty | 130A | 160A |
| 70% Duty | 120A | 150A |
| Rated Fault Current Breaking Capacity (I _{cn}) 5ms Time Constant: (in accordance with UL583*) | | |
| SW80 | 600A at 48V | |
| SW80B | 600A at 96V | |
| Rated Fault Current Breaking Capacity (I _{cn}) Resistive Load: (in accordance with UL508*) | | |
| SW80 | 190A at 60V D.C. | |
| SW80B | 190A at 96V D.C. | |
| Maximum Recommended Contact Voltages (U _o): | | |
| SW80 | 48V D.C. | 60V D.C. |
| SW80B | | 96V D.C. |
| Typical Voltage Drop per pole across New Contacts at 100A | | 40mV |
| Mechanical Durability | | >5 x 10 ⁶ Cycles |
| Coil Voltage Available (U _s) (Rectifier board required for A.C.) | | From 6 to 240V D.C. |
| 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 |
| Maximum Pull-In Voltage (Coil at 20° C) Guideline: | | |
| Highly Intermittent Rated types (Max 25% Duty Cycle) | | 60% U _s |
| Intermittently Rated types (Max 70% Duty Cycle) | | 60% U _s |
| Prolonged Operation (Max 90% Duty Cycle) | | 60% U _s |
| Continuously Rated Types (100% Duty Cycle) | | 66% U _s |
| Drop-Out Voltage Range | | 10 - 25% U _s |
| 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 |
| Typical Contact Bounce Period | | 3ms |
| Operating Ambient Temperature | | - 40°C to + 60°C |
| Guideline Contactor Weight: | | |
| SW80 | | 350 gms |
| With Auxiliary | | + 20 gms |
| With Blowouts | | + 50 gms |
| Auxiliary Thermal Current Rating | | 5A |
| Auxiliary Contact Switching Capabilities (Resistive Load): | | |
| SW80C | SW80A | |
| | 5A at 24V D.C. | |
| | 2A at 48V D.C. | |
| | 0.5A at 240V D.C. | |
| Advised Connection Sizes for Maximum Continuous Current | | |
| Copper busbar | | 80mm ² [0.124inch ²] |
| 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

The SW80 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks, and telecom and power distribution applications. Developed for both interrupted and uninterrupted loads, the SW80 is suitable for switching Resistive, Capacitive and Inductive loads.

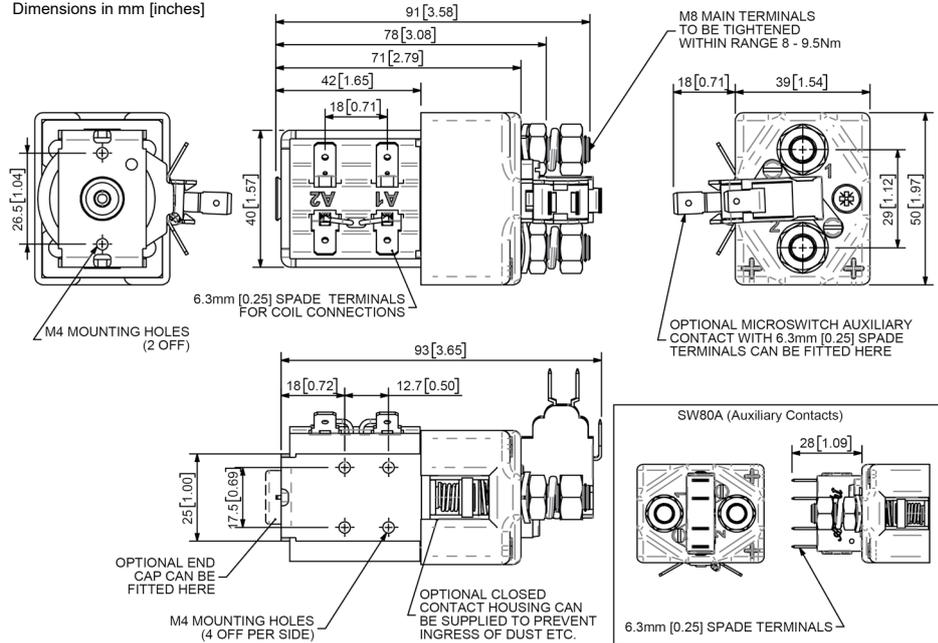
- **Interrupted** current - opening and closing on load with frequent switching (results in increased contact resistance).
- **Uninterrupted** current - no or infrequent load switching requirements (maintains a lower contact resistance).

The SW80 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW80 has M8 stud main terminals and 6.3mm spade coil connections. Mounting is 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.

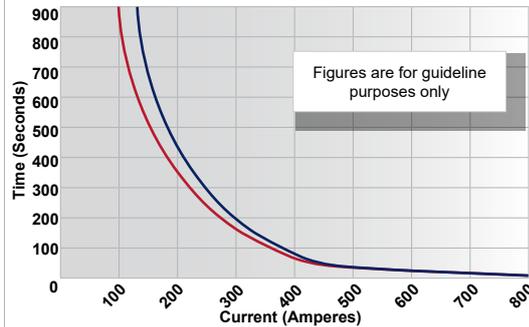


SW80

Dimensions in mm [inches]



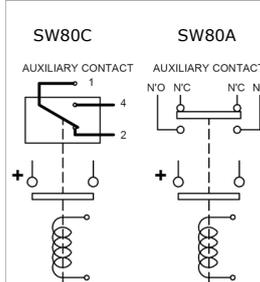
SW80 Contactor Performance



Contact Performance Key:

- Interrupted Current
- Uninterrupted Current

Connection Diagram



SW80 Available Options

| General | | Suffix |
|---|----------------------------------|--------|
| Auxiliary Contacts | <input type="radio"/> | A |
| Auxiliary Contacts - V3 | <input type="radio"/> | C |
| Magnetic Blowouts† | <input type="radio"/> | B |
| Magnetic Blowouts - High Powered† | <input type="radio"/> | B |
| Armature Cap | <input type="radio"/> | |
| Mounting Brackets (See Stud Series Catalogue) | <input type="radio"/> | |
| Magnetic Latching† (Not fail safe) | <input type="radio"/> | M |
| Closed Contact Housing‡ | <input type="radio"/> | |
| Environmentally Protected IP66 (see SW80P Catalogue sheet) | <input type="radio"/> | P |
| EE Type (Steel Shroud) | <input type="radio"/> | EE |
| Contacts | | |
| Large Tips | <input type="radio"/> | L |
| Textured Tips | <input type="radio"/> | T |
| Silver Plating | <input checked="" type="radio"/> | X |
| Coil | | |
| AC Rectifier Board (Fitted) | <input type="radio"/> | |
| Coil Suppression† | <input type="radio"/> | |
| Flying Leads | <input type="radio"/> | F |
| Junior Power Timer Connector | <input type="radio"/> | |
| Manual Override Operation | <input type="radio"/> | |
| M4 Stud Terminals | <input checked="" type="radio"/> | X |
| M5 Terminal Board | <input type="radio"/> | |
| Vacuum Impregnation | <input type="radio"/> | |

Key: Optional Standard Not Available X

† Connections become polarity sensitive

‡ Open Housing Available

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