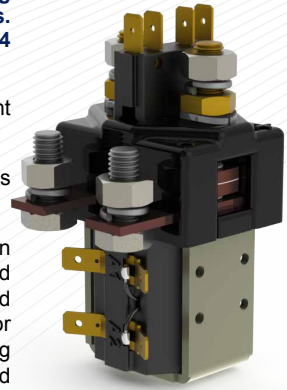


| Application | Interrupted | Uninterrupted |
|---|---|-------------------|
| Thermal Current Rating (I _{th}) | 100A | 125A [§] |
| Intermittent Current Rating: | | |
| 30% Duty | 185A | 230A [§] |
| 40% Duty | 160A | 200A [§] |
| 50% Duty | 140A | 175A [§] |
| 60% Duty | 130A | 160A [§] |
| 70% Duty | 120A | 150A [§] |
| Rated Fault Current Breaking Capacity (I _{cn}) 5ms Time Constant: (in accordance with UL583*) | | |
| SW84 | 800A at 48V [§] | |
| SW84B | 600A at 80V [§] | |
| Maximum Recommended Contact Voltages (U _e): | | |
| SW84 | 48V D.C. | |
| SW84B | 96V D.C. | |
| Typical Voltage Drop per pole across New Contacts at 100A: | | |
| Normally Open | 40mV | |
| Normally Closed | 50mV | |
| Mechanical M.T.B.F | >5 x 10 ⁶ | |
| 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 (N/O Contacts to Close): | 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 | |
| Main Contact Change over time (milliseconds): | | |
| Normally Closed to Normally Open | 7ms | |
| Normally Open to Normally Closed | 4ms | |
| Typical Contact Bounce Period | 3ms | |
| Operating Ambient Temperature | - 40° C to + 60° C | |
| Guideline Contactor Weight: | | |
| SW84 | 430 gms | |
| With Auxiliary | + 20 gms | |
| With Blowouts | + 50 gms | |
| Auxiliary Details | | |
| Auxiliary Thermal Current Rating | 5A | |
| Auxiliary Contact Switching Capabilities (Resistive Load): | | |
| SW84A | SW84C | |
| 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 | | |
| § Normally Open contacts only - Normally Closed should be rated as per Interrupted Current, and are not designed to make and break load | | |

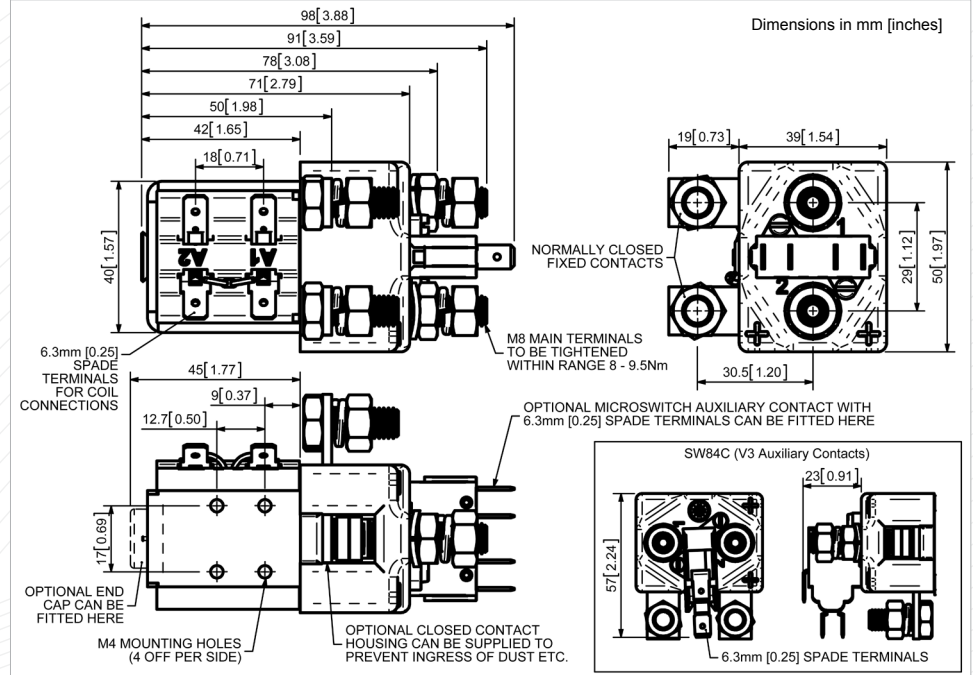
The SW84 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted[§] loads, the SW84 is suitable for switching Resistive, Capacitive and Inductive loads.

- **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).

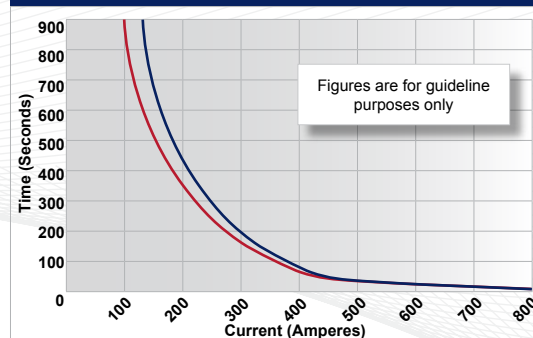
The SW84 features single pole double throw, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW84 has M8 stud main terminals and 6.3mm spade coil connections. It can be mounted via M4 tapped holes or mounting brackets – 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. Please note Normally Closed contacts are not suited to make and break load.



SW84A

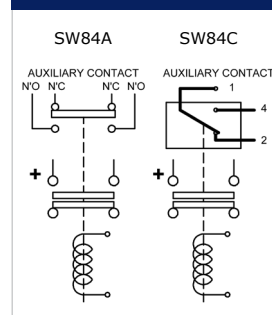


SW84 Contactor Performance



Contact Performance Key:
— Interrupted Current
— Uninterrupted Currents

Connection Diagram



SW84 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 | <input checked="" type="checkbox"/> | P |
| EE Type (Steel Shroud) | <input checked="" type="checkbox"/> | |
| Contacts | | |
| Large Tips | <input type="radio"/> | L |
| Textured Tips | <input type="radio"/> | T |
| Silver Plating | <input checked="" type="checkbox"/> | |
| Coil | | |
| AC Rectifier Board (Fitted) | <input type="radio"/> | |
| Coil Suppression† | <input type="radio"/> | |
| Flying Leads | <input type="radio"/> | F |
| Manual Override Operation | <input type="radio"/> | |
| M4 Stud Terminals | <input checked="" type="checkbox"/> | |
| M5 Terminal Board | <input type="radio"/> | |
| Vacuum Impregnation | <input type="radio"/> | |
| Key: <input type="radio"/> Optional <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 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