

The SW68 is a miniature series double pole contactor, free standing and compact it is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and uninterrupted loads, the SW68 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include switching small traction motors, hydraulic power packs and small electric winch motors.

- **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).



SW68

| Application | Interrupted | Uninterrupted |
|--|-------------------------|----------------------|
| Thermal Current Rating (¹ th) | | 80A |
| Intermittent Current Rating: | | |
| 30% Duty | | 145A |
| 40% Duty | | 125A |
| 50% Duty | | 115A |
| 60% Duty | | 105A |
| 70% Duty | | 95A |
| Rated Fault Current Breaking Capacity (¹ cn) 5ms Time Constant: (in accordance with UL583*) | | |
| SW68 | 400A at 48V D.C. | |
| Rated Fault Current Breaking Capacity (¹ cn) Resistive Load: (in accordance with UL508*) | | |
| SW68 | 120A at 48V D.C. | |
| Maximum Recommended Contact Voltages (U _e): (Both Poles in same circuit) | | |
| SW68 | 96V D.C. | 120V D.C. |
| Typical Voltage Drop per pole across New Contacts at 80A | | <40mV |
| Mechanical M.T.B.F | | >3 x 10 ⁶ |
| Coil Voltage Available (Us) | | From 6 to 130V D.C. |
| Coil Power Dissipation: | | |
| Highly Intermittent Rated Types | 14 - 21 Watts | |
| Intermittently Rated types | 10 - 14 Watts | |
| Prolonged Rated Types | 7 - 10 Watts | |
| Continuously Rated Types | 5 - 7 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 | 15ms | |
| Typical Drop-Out Time (N/O Contacts to Open): | | |
| Without Suppression | 6ms | |
| With Diode Suppression | 35ms | |
| 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: | | |
| SW68 | 220 gms | |

Advised Connection Sizes for Maximum Continuous Current

| | |
|---------------|---|
| Copper busbar | 52mm ² [0.081inch ²] |
| Cable | Rated suitable for Application |

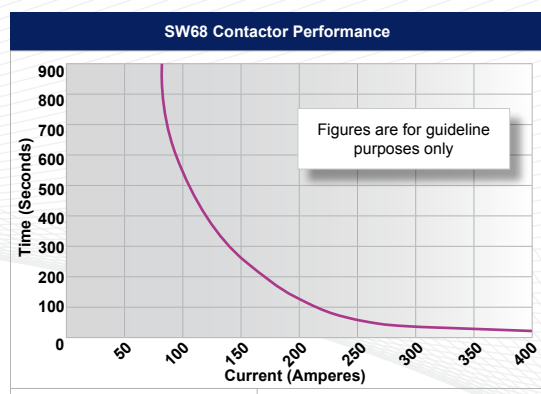
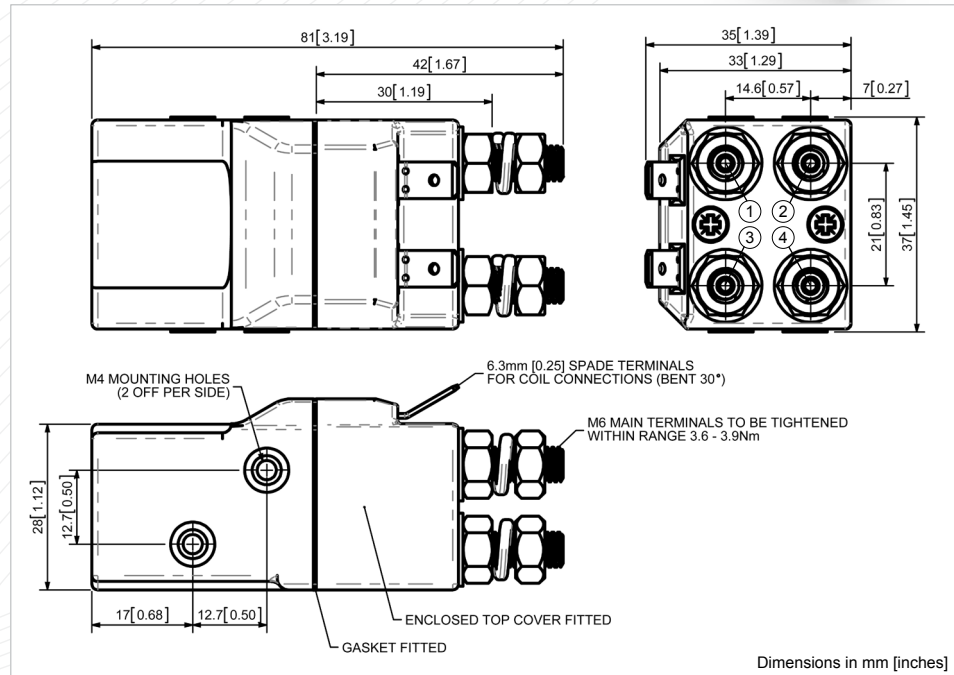
Key: ■ = Interrupted ▲ = Uninterrupted

Note: Where applicable values shown are at 20° C

* Please check our web site for product UL status

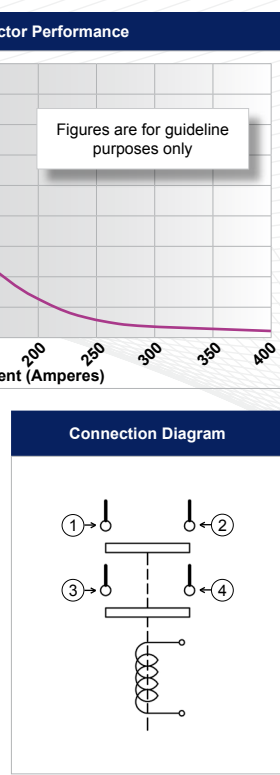
- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com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

The SW68 features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW68 has M6 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 on the side or base of the contactor.



Contact Performance Key:

— Interrupted and Uninterrupted Current



| SW68 Available Options | | |
|--|--------|---|
| General | Suffix | |
| Auxiliary Contacts | X | |
| Auxiliary Contacts - V4 | X | |
| Magnetic Blowouts† | X | |
| Magnetic Blowouts - High Powered† | X | |
| Armature Cap | X | |
| Mounting Brackets (see PC60, MB60 & SW60 Catalogue) | ○ | |
| Magnetic Latching† (Not fail safe) | ○ | M |
| Closed Contact Housing | ● | |
| Environmentally Protected IP66 (see SW68P Catalogue sheet) | ○ | P |
| EE Type (Steel Shroud) | X | |
| Contacts | | |
| Large Tips | X | |
| Textured Tips | X | |
| Silver Plating | X | |
| Coil | | |
| AC Rectifier Board (Fitted) | X | |
| Coil Suppression† | ○ | |
| Flying Leads | X | |
| Manual Override Operation | X | |
| M4 Stud Terminals | ○ | |
| M5 Terminal Board | X | |
| Vacuum Impregnation | X | |
| Key: ○ Optional ○ Standard ● Not Available X | | |
| † Connections become polarity sensitive | | |