The DC64P has been designed for direct current loads, such as motors used on small winches. The DC64P is a monoblock construction, resulting in a compact design which is compatible with modern electronic control systems. Devised for both interrupted and uninterrupted loads, the DC64P 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 DC64P has double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The P type configuration offers greater environmental protection, compliant to IP67. The DC64P has M6 main stud terminals and coil connections are by means of 6.3mm spades.

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### Application Interrupted Uninterrupted

<table>
<thead>
<tr>
<th>Current (Amp)</th>
<th>Current (Amp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Current Rating (90%)</td>
<td>80A</td>
</tr>
<tr>
<td>Intermittent Current Rating</td>
<td>145A</td>
</tr>
<tr>
<td>30% Duty</td>
<td>125A</td>
</tr>
<tr>
<td>40% Duty</td>
<td>115A</td>
</tr>
<tr>
<td>50% Duty</td>
<td>105A</td>
</tr>
<tr>
<td>60% Duty</td>
<td>95A</td>
</tr>
<tr>
<td>70% Duty</td>
<td><strong>Unrated</strong></td>
</tr>
</tbody>
</table>

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### Rated DC64P Performance

- **Rated Fault Current Breaking Capacity**: 500A at 60V D.C.
- **Rated Current**: 48V D.C.
- **Rated Voltage**: 60% U
- **Maximum Continuous Current**: 500A at 60V D.C.
- **Typical Voltage Drop per pole across New Contacts at 80A**: 40mV
- **Mechanical Durability**: >3 x 10^6 Cycles
- **Coil Voltage Available**: From 6 to 130V D.C.
- **Coil Power Dissipation**: Highly Interrupted 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 Interrupted Rated types (Max 25% Duty Cycle) 60% U_b, Intermittently Rated types (Max 70% Duty Cycle) 60% U_b, Prolonged Operation (Max 80% Duty Cycle) 60% U_b, Continuously Rated Types (100% Duty Cycle) 66% U_b
- **Drop-Out Voltage Range**: 10 - 25%
- **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

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### DC64P Connections

- **Connection Points**: For SW60 (Part of the SW60 Series)
- **Vacuum Impregnation**: Environmentally Protected IP67 (Centre Terminal Common Negative)
- **Connections**: Become polarity sensitive

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### DC64P Available Options

- **General**: Auxiliary Contacts, Magnetic Blowouts, Magnetic Blowouts - High Powered, Armature Cap, Mounting Brackets, Magnetic Latching, (Not fail safe), Closed Contact Housing, Environmentally Protected IP67, EE Type (Steel Shroud)
- **Contacts**: Large Tips, Textured Tips, Silver Plating
- **Coil**: AC Rectifier Board (Fitted), Coil Suppression, Flying Leads, Manual Override Operation, M4 Stud Terminals, M5 Terminal Board, Vacuum Impregnation
- **Key**: Optional = Standard = Not Available = X

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### DC64P Contact Performance

**Contact Performance Key**

- **Interrupted and Uninterrupted Current**: Figures are for guideline purposes only

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### DC64P Monoblock, 2 x SW60 - IP67 (Part of the SW60 Series)