The DC66P is a compact contactor following the established design of our mono block contactors, configured specifically for motor reversing. Suitable for Direct Current loads and compatible with modern electronic control systems, the DC66P is sealed to IP67 and is ideal for use in applications such as battery powered winches, vehicle mounted cranes and small electric vehicles. Devised for both interrupted and uninterrupted loads, the DC66P 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 main contact circuit has a built in fail safe, so that if both coils are energised simultaneously the contact arrangement is open circuit. The DC66P has double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The DC66P has M6 main stud terminals and coil connections are by means of 0.08 inch [0.08 inch] spades.

### DC66P Contactor Performance

<table>
<thead>
<tr>
<th>Application</th>
<th>Interrupted</th>
<th>Uninterrupted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Current Rating</td>
<td>80A</td>
<td>80A</td>
</tr>
<tr>
<td>Intermittent Current Rating:</td>
<td>350A</td>
<td>350A</td>
</tr>
<tr>
<td>30% Duty</td>
<td>145A</td>
<td>145A</td>
</tr>
<tr>
<td>40% Duty</td>
<td>125A</td>
<td>125A</td>
</tr>
<tr>
<td>50% Duty</td>
<td>115A</td>
<td>115A</td>
</tr>
<tr>
<td>60% Duty</td>
<td>105A</td>
<td>105A</td>
</tr>
<tr>
<td>70% Duty</td>
<td>95A</td>
<td>95A</td>
</tr>
</tbody>
</table>

Rated Fault Current Breaking Capacity (\(\text{on}\) 5ms Time Constant: (in accordance with UL583))

- **DC66P**: 500A at 60V D.C.
- **DC66P**: 120A at 48V D.C.

Maximum Recommended Contact Voltages (\(U_c\)):

- DC66P: 48V D.C.

Mechanical Durability: >3 x 10^6 cycles

Coil Voltage Available (\(U_c\)):

- 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% \(U_c\)
- Intermittently Rated types (Max 70% Duty Cycle): 60% \(U_c\)
- Prolonged Operation (Max 50% Duty Cycle): 60% \(U_c\)
- Continuously Rated Types (100% Duty Cycle): 66% \(U_c\)

Drop-Out Voltage Range: 10 - 25% \(U_c\)

Typical Pull-In Time: 15ms

Typical Drop-Out Time (N/O Contacts to Open):

- Without Suppression: 6ms
- With Diode Suppression: 35ms

Typical Contact Changeover Time (milliseconds):

- Normally Closed to Normally Open: 6ms
- Normally Open to Normally Closed: 6ms
- Typical Contact Bounce Period: 3ms

Operating Ambient Temperature: -40°C to +60°C

Guideline Contactor Weight: 460 gms

### Advised Connection Sizes for Maximum Continuous Current

- Copper busbar: 52 mm² (0.08 inch²)
- 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 dependent 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