The DC182P motor reversing type of contactor has been designed for direct current loads, particularly motors as used on electric winches. The DC182P is a monoblock construction, resulting in a neat compact design which is compatible with modern electronic control systems. The DC182P is suitable for switching Resistive and Inductive loads and is sealed to IP67.

The main contact circuit, designed for motor reversing, has a built-in failsafe, so that if both coils are energised simultaneously the circuit remains open. The DC182P has double breaking main contacts with silver alloy contact tips, which are weld resistant, hard wearing and have excellent conductivity. The DC182P M8 main stud terminals can be configured in a variety of ways in order to suit the application. Coil connections are by means of 6.3mm spades and mounting is via the supplied bracket and 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.

DC182P Monoblock Single Pole Double Throw for Motor Reversing - IP67 (Part of the SW180 Series)

DC182P Available Options

<table>
<thead>
<tr>
<th>General</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Brackets</td>
<td>●</td>
</tr>
<tr>
<td>Magnetic Latching* (Not fail safe)</td>
<td>○ M</td>
</tr>
<tr>
<td>Closed Contact Housing</td>
<td>●</td>
</tr>
<tr>
<td>Environmentally Protected IP67</td>
<td>● P</td>
</tr>
</tbody>
</table>

Connections become polarity sensitive

Contact Numbers

| Large Tips | ○ L |
| Textured Tips | ○ T |

Coil

| Coil Suppression$ | ○ |
| Vacuum Impregnation | ○ |

Key: Optional ○ Standard ●

Note: Where applicable values shown are at 20°C

* Please check our web site for product UL status

Performance data provided to be used as a guide only. Some de-rating or variation from figures may be necessary according to application. The 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

Guideline for UL application:

- Normally Open
- Normally Closed

Thermal Current Rating (100% Duty Cycle) 250A 350A
Intermittent Current Rating:
- 60% Ua
- 50% Ua
- 40% Ua
- 30% Ua

Drop-Out Voltage Range:
- 10 - 25% Ua

Typical Pull-In Time:
- 30ms

Typical Operating Life:
- 1000A at 48V D.C.

Rated Fault Current Breaking Capacity
5ms Time Constant: (in accordance with IEC60947-5-1)
1000A at 48V D.C.

Maximum Recommended Contact Voltage (Uac): 48V D.C.

Typical Voltage Drop per pole across New Contacts at 150A:
- Normally Open 30mV
- Normally Closed 40mV

Mechanical Durability:
> 3 x 10⁶ Cycles

Coil Voltage Available (Ua): From 6 to 240V D.C.

Coil Power Dissipation:
- Highly Intermittent Rated Types 40 - 50 Watts
- Intermittently Rated types 30 - 40 Watts
- Prolonged Rated Types 15 - 30 Watts
- Continuously Rated Types 10 - 15 Watts

Maximum Pull-In Voltage (Coil at 20°C) Guideline:
- Highly Interimittent Rated types (Max 25% Duty Cycle) 60% Ua
- Intermittently Rated types (Max 70% Duty Cycle) 60% Ua
- Prolonged Operation (Max 90% Duty Cycle) 60% Ua
- Continuously Rated Types (100% Duty Cycle) 66% Ua

Drop-Out Voltage Range:
- 10 - 25% Ua

Typical Pull-In Time:
- 30ms

Typical Drop-Out Time (N/O Contacts to Open):
- Without Suppression 8ms
- With Diode Suppression 60ms
- With Diode and Resistor (Subject to resistance value) 25ms

Typical Main Contact Changeover Time (milliseconds):
- Normally Closed to Normally Open 12ms
- Normally Open to Normally Closed 5ms

Typical Contact Bounce Period:
- 3ms

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

Guideline Contactor Weight:
1660 gms

Connection Conductor Sizes for Maximum Continuous Current Should be Rated Suitable for Application