FEATURES

- Small, compact contactor for switching 1000+ Vdc
- UL508 Recognized and load break rated for 1000vdc systems
- Designed to meet UL1604 for hazardous locations, class I and II, Div2 and class III
- Patented EPIC® Hermetic Seal – Exceeds IP67-69 specifications – No exposed arcing to open air environments
- Perfect for solar, photovoltaic, inverter systems, battery packs, combiner boxes, DC arc fault interrupter systems or any other high voltage DC system
- High Efficiency Dual DC Coils – Very low 12, 24, or 48Vdc continuous power coils with no EMI emissions or cross-talk on your system control power – Ideal for battery powered systems or where low coil power consumption is needed
- Stand up mounting
- Designed and Manufactured in Carpinteria, CA USA
POWER SWITCHING AND CURRENT CARRY RATINGS

COIL RATINGS at 25°C

<table>
<thead>
<tr>
<th>Coil P/N Designation</th>
<th>B</th>
<th>C</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil Voltage, Nominal</td>
<td>12 VDC</td>
<td>24 VDC</td>
<td>48 VDC</td>
</tr>
<tr>
<td>Coil Voltage, Max</td>
<td>16 V</td>
<td>32 V</td>
<td>60 V</td>
</tr>
<tr>
<td>Pick-Up Voltage, Max</td>
<td>8 V</td>
<td>16 V</td>
<td>40 V</td>
</tr>
<tr>
<td>Drop-Out Voltage</td>
<td>0.5 to 4 V</td>
<td>2 to 7.5 V</td>
<td>4 to 15 V</td>
</tr>
<tr>
<td>Pick-Up Current, Max (75 ms)</td>
<td>4.3 A</td>
<td>1.6 A</td>
<td>0.98 A</td>
</tr>
<tr>
<td>Coil Current</td>
<td>0.24 A</td>
<td>0.09 A</td>
<td>0.044 A</td>
</tr>
<tr>
<td>Coil Power</td>
<td>2.9 W</td>
<td>2.1 W</td>
<td>2.1 W</td>
</tr>
<tr>
<td>Internal Coil Suppression</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coil Back EMF</td>
<td>55 V</td>
<td>55 V</td>
<td>125 V</td>
</tr>
<tr>
<td>Transients, Max (13 ms)</td>
<td>±50 V</td>
<td>±50 V</td>
<td>±75 V</td>
</tr>
<tr>
<td>Reverse Polarity</td>
<td>16 V</td>
<td>32 V</td>
<td>64 V</td>
</tr>
</tbody>
</table>

DC POWER SWITCHING CYCLES

CURRENT CARRY vs TIME

with 85°C terminal temperature rise

ADVANCED SWITCHING SOLUTIONS
**DIMENSIONS**

**Mounting**
M5 Bolts

**Case Material**
DuPont Zytel FR50  
(25% Glass Filled Nylon)

**Power Connection**
Stainless M8x1.25 Stud  
Stainless M8x1.25 Flanged Nut  
Torque 10Nm [90in-lb] max

**Coil Wire**
Silicone, 20 AWG, UL: VW-1

**Power Contacts**

**Auxiliary Contacts** (optional)

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GIGAVAC® - 6382 Rose Lane - Carpinteria, CA 93013 - ph +1-805-684-8401 - fax +1-805-684-8402  
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**APPLICATION NOTES**

- **Contacts** feature internal transorb for coil suppression. **No external diodes** should be added across the coil. The use of additional external coil suppression can slow the release time and invalidate the life cycle ratings, or cause the contactor not to be able to interrupt the maximum current specified. If lower coil back EMF is required, please contact GIGAVAC for assistance.

- **Power switching lifecycles** are based on current flow from A1(+) to A2(-). For best breaking performance, the contactor should be installed so that current flows from A1(+) to A2(-). There are cases where the contactor will interrupt power in the opposite direction but please contact GIGAVAC to confirm suitability. Direction of current flow is not relevant during make or when flowing on closed contacts. For bi-directional contactors, please contact GIGAVAC.

- **Applications with capacitors** will require a pre-charge circuit.

- **Electrical life rating** is based on resistive load with 27µH maximum inductance in circuit. Because your application may be different, we suggest you test the contactor in your circuit to verify life is as required.

- **End of life** is defined as when the dielectric, insulation resistance or contact resistance fails the specifications listed.

- **Contact GIGAVAC regarding DC Power Switching Cycle Life for part numbers that include auxiliary contacts.**