Introducing
AMP+ High Voltage Contactors (EVC) 500-500L

Hermetically sealed and intrinsically safe, TE Connectivity AMP+ high voltage contactors provide fast and reliable switching of the high voltage battery to the vehicle system in hybrid and electric vehicles. The AMP+ high voltage contactor 500-500L offers 900 VDC and 500 Amps continuous current carrying capabilities in a compact package. Capable of 2000 Amp interrupt at 320 VDC.

Evolved from fighter jet technology, AMP+ high voltage contactors reliably provide current switching capability in harsh and explosive operating environments with no oxidation or contamination of contacts during long periods of non-operation. 12kV of isolation between open contacts increase battery system robustness. The AMP+ EVC 500 is designed with an optional built micro-controller or timer based coil economizer; the AMP+ EVC 500L is designed with a 12V coil requiring no external economizer. Both are available with an optional auxiliary switch to monitor contact position.
AMP+ EVC 500
900 VDC, 500 Amp Continuous Current Contactor

APPLICATIONS
• Main power relay to connect the battery system to the electric vehicle

MECHANICAL
• Compact epoxy-sealed resin enclosure
• Robust bottom mounting with optional economizer enclosure
• Inert gas filled contact chamber
• Flying leads for coil connections
• Threaded load terminals
• Mechanical life: 500,000 cycles

ELECTRICAL
• Contactor arrangement: Main contacts SPST–NO-DM (1 Form X)
• Voltage rating (max): 900 VDC
• Continuous current rating: 500 Amps @ 85 °C
• Break current at 320 VDC: 2,000, 1 cycle
• Contact resistance, typical (@200 Amps): 0.2 mohms
• Coil resistance: EVC 500 = 3.14 ohms
  EVC 500L = 11 ohms

STANDARDS AND SPECIFICATIONS
• RoHS compliant

AVAILABLE DATE
• EVC 500 = Now
• EVC 500L = Q4 2012

PRODUCT OFFERING

AMP+ EVC 500 & 500L 900VDC, 500 Amp Continuous Current Contactor

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Part Code</th>
<th>Coil Voltage</th>
<th>Coil Termination</th>
<th>Connection Hardware</th>
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</thead>
<tbody>
<tr>
<td>2098372-1</td>
<td>EVC500-AIANAM</td>
<td>12 VDC</td>
<td>15 in (380 mm)</td>
<td>Included</td>
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<tr>
<td>2098190-1</td>
<td>EVC500-AAANAM</td>
<td>12 VDC</td>
<td>stripped wire</td>
<td>None</td>
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<td>2163806-1</td>
<td>EVC500-BAANAM</td>
<td>12 VDC</td>
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<td>2203115-1</td>
<td>EVC500-BAANANAM</td>
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<td>stripped wire</td>
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PRODUCT DIMENSIONS
• EVC 500 without coil economizer (bottom mount)

See data sheet for additional mounting configurations and EVC 500L dimensions.