BRIEF INFORMATION
Electric-drive refrigerant compressor for hybrid vehicles

→ For Toyota Prius (ZVW30) 1.8
→ Integrated inverter for high voltage
→ Air-conditioning operation can be controlled by radio remote control
→ Special lubricant required

PRODUCT FEATURES

→ First electric refrigerant compressor in the Behr Hella Service range.
→ Scroll technology.
→ ca. 20% less weight than the Toyota Prius II compressor.
→ ca. 20% less capacity than the Toyota Prius II compressor.
→ The electric drive allows use of the air-conditioning system even with the engine switched off.
→ The compressor power is regulated by a control unit. The cooling capacity of the scroll compressor is regulated depending on speed.
TECHNICAL DETAILS

EXPLODED VIEW

KEY
1. Scroll compressor unit
2. Electric motor unit
3. Fixed scroll unit with valve plate
4. Moving scroll unit
5. Compressor housing
6. Rotor (brushless)
7. Stator winding with housing
8. Inverter and control unit
9. High-voltage connection
10. Air-conditioning control unit connection
11. Low-pressure connection for refrigerant circuit
12. High-pressure connection for refrigerant circuit
13. Pressure relief valve
TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net weight</td>
<td>4,623 g</td>
</tr>
<tr>
<td>Gross weight</td>
<td>5,487 g</td>
</tr>
<tr>
<td>Drive</td>
<td>through 3-phase high-voltage with up to 288 V</td>
</tr>
<tr>
<td>Control unit or inverter</td>
<td>integrated</td>
</tr>
<tr>
<td>Oil filling quantity</td>
<td>ca. 140 ml*</td>
</tr>
<tr>
<td>Use</td>
<td>for refrigerant R134</td>
</tr>
<tr>
<td>Capacity</td>
<td>fix 140 ccm</td>
</tr>
<tr>
<td>Type</td>
<td>Denso ES14</td>
</tr>
<tr>
<td>Technology</td>
<td>Electric-drive scroll compressor</td>
</tr>
</tbody>
</table>

* To guarantee sufficient insulation for high-voltage parts of the compressor against the compressor housing and vehicle chassis, a special oil (Denso ND11 or comparable) with special insulating properties must be used.

Special safety measures must be heeded during work on hybrid vehicles (e.g. manufacturer’s specifications)

PRODUCT OVERVIEW

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>OE NUMBERS*</th>
<th>DESCRIPTION</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>8FK 351 342-001</td>
<td>88370-47030 88370-47031</td>
<td>Compressor, air-conditioning system TOYOTA PRIUS (ZVW30) 1.8</td>
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</tr>
</tbody>
</table>

* OE numbers are only for comparative purposes