Ashwoods design and manufacture smaller, lighter and more efficient permanent magnet electric motors across a range of sectors including the automotive, materials handling and off-highway vehicle markets.

**IPM-L33**

**Functional Data**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Torque @ 350Arms</td>
<td>42 Nm</td>
</tr>
<tr>
<td>Voltage</td>
<td>48 - 80V</td>
</tr>
<tr>
<td>Continuous Torque</td>
<td>12 - 20 Nm</td>
</tr>
<tr>
<td>Peak Power</td>
<td>9 - 12 kW</td>
</tr>
<tr>
<td>Continuous Power</td>
<td>4.5 - 7 kW</td>
</tr>
<tr>
<td>Max Speed</td>
<td>6000 - 8500 rpm</td>
</tr>
<tr>
<td>Peak Efficiency</td>
<td>94%</td>
</tr>
<tr>
<td>Weight (motor)</td>
<td>10 kg</td>
</tr>
</tbody>
</table>

**Applications**

- Golf carts
- Wind turbines
- Forklifts
- Off-highway vehicles

**Motor Features**

- Scalable design
- Radial flux
- Highly efficient
- Reluctance torque
- Compact
- Low cost
- Lightweight
- Ingress protection

Sales and Customer Service

Telephone:+44 1392 340184
(Monday to Friday, 8.30am-5.30pm)

info@ashwoodselectricmotors.co.uk
www.ashwoodselectricmotors.com
**IPM-L33**

**Interfaces**

**Standard**
A standard 19MM shaft with a keyway can be provided to allow easy integration in many applications.

**Traction**
Working closely with a number of transmission suppliers we can provide interfaces to work with a range of transmissions.

**Hydraulic**
Pump interfaces have been developed to enable our motors to work with a range of pumps.

### Model Chart

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage (V)</th>
<th>Peak Power (kW)</th>
<th>Continuous Power (kW)</th>
<th>Peak Torque (Nm)</th>
<th>Current (Arms)</th>
<th>Max Speed (rpm)</th>
<th>Enclosure Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPM - L33 / T2001</td>
<td>48</td>
<td>9</td>
<td>4.5</td>
<td>42</td>
<td>350</td>
<td>8500</td>
<td>IP65</td>
</tr>
<tr>
<td>IPM - L33 / T2002</td>
<td>48</td>
<td>9</td>
<td>7</td>
<td>42</td>
<td>350</td>
<td>8500</td>
<td>IP25</td>
</tr>
<tr>
<td>IPM - L33 / T4001</td>
<td>72</td>
<td>12</td>
<td>4.5</td>
<td>42</td>
<td>350</td>
<td>8500</td>
<td>IP65</td>
</tr>
<tr>
<td>IPM - L33 / T4002</td>
<td>72</td>
<td>12</td>
<td>7</td>
<td>42</td>
<td>350</td>
<td>8500</td>
<td>IP25</td>
</tr>
</tbody>
</table>
IPM-L33

48V Performance Graphs

48V IPM-L33 Performance

Ashwoods IPM Motor Efficiency

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