525-LS ACPM Elevator Traction Machines

**Imperial Electric 525-LS direct drive elevator machines** are designed to replace AC geared machines in 1:1 roped applications. 525-LS series machines deliver all the advantages of ACPM, synchronous technology in a package engineered to provide everything you need to replace an existing geared machine in the shortest possible time —

- AC Permanent Magnet machines
- Universal machine base for right- or left-hand installation
- Machine includes:
  - AC Permanent Magnet motor
  - Drive sheave
  - Dual brake system - meets A17 requirements
  - Encoder
- Installation package:
  - Isolation pads
  - Blocking beams
  - Hardware package
  - Rope guards
  - Sheave guards

Reuse your existing secondary sheave or order a new one from Imperial Electric. Simple. Direct.

Compared to geared machines, ACPM technology delivers an average 30% improvement in energy efficiency, reduced noise levels, cooler operating temperatures, better ride quality, and improved control during acceleration and deceleration. Because the machine is gearless, problems with gear oil are eliminated and maintenance needs are greatly reduced.

**GEARED TRACTION 1:1 REPLACEMENT**

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**Specifications**
- 2000, 2500, & 3000 pound capacities, 1:1 roped
- Speeds ranging from 150 to 450 FPM
- V-groove, 25-inch diameter sheave
- 7, 1/2- or 6, 5/8-inch rope sizes

**Features**
- Precise acceleration, deceleration, and contract speed control
- Low noise
- Highly efficient
- Green - no oil lubricants
- Compact
- Low speed direct drive (no gears)
- Cooler operation
- Dual, independent brakes allow external rope brake to be eliminated (each brake will hold 125% of rated capacity)
- Complete hardware package eliminates on-site engineering calculation and fabrication of heavy base and beam structures
- Simplified logistics – complete package engineered and provided by Imperial Electric
- Weighs just 3830 pounds
- CSA listed motor

**Applications**
- Modernization or new construction
- 1:1 roped installations
**Dimensions (Representative)**

N.N inches (N.N mm) Rope drop varies per job

**525-LS Specifications**

<table>
<thead>
<tr>
<th>FPM</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
<th>450</th>
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<tr>
<td>RPM</td>
<td>23</td>
<td>31</td>
<td>38</td>
<td>46</td>
<td>53</td>
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<td>69</td>
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<td>FREQ. (HZ)</td>
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<td>5.1</td>
<td>6.4</td>
<td>7.6</td>
<td>8.9</td>
<td>10.2</td>
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<td>CAPACITY</td>
<td>HP</td>
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<tr>
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<td>13.9</td>
<td>33.0</td>
<td>16.7</td>
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Specifications at 40% counterweight. Consult Imperial for other ratings.