Spicer® Electrified™
e-Hub Drive
7HE

Product Benefits
- A fully integrated electro-mechanical system
- Compact length allows greater design flexibility
- Ashwoods IPM motor technology for greater efficiency with less size and weight

Product Features
- Utilizes proven Spicer® Torque-Hub® drive designs
- Integrated parking brake
- IP67 motor ingress protection

Ideal for Aerial Work Platforms, Light Construction Vehicles, and Material Handling Equipment
Catalog prints are representative of the units. Before final design, request a certified print from Dana.
**Performance Data**

<table>
<thead>
<tr>
<th>Continuous</th>
<th>Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td>30,000 lb-in</td>
<td>60,000 lb-in</td>
</tr>
<tr>
<td>2,500 lb-ft</td>
<td>5,000 lb-ft</td>
</tr>
<tr>
<td>3,390 Nm</td>
<td>6,780 Nm</td>
</tr>
<tr>
<td>346 kg-m</td>
<td>692 kg-m</td>
</tr>
</tbody>
</table>

**Speed Limitations**

**Input Speed:** 8,500 RPM Max Intermittent

**Weight**

Approximately 144 lbs (65 kg)

Note: Specific models will change weights.

**Model Formula**

7 - 7,000 Series Spicer® Torque-Hub®

**Motor Input**

H - Hub

**Spindle Brake**

T - Warner PK 35

Electric Brake (48V)

- 75Nm

**Oil**

Fill to half full with 90 weight gear lube with EP additive on most applications.

**Volume of Oil:**

23 oz. (680 cm³)

Note: Oil level and type will vary with specific model and application.

**Conditions of Bearing Curve**

**Life** = 3,000 hours B-10

**Speed** = 100 RPM output

To adjust for loads and speeds other than shown on curve:

\[
\text{Adjusted Life} = \frac{100 \text{ RPM}}{\text{Speed (Adjusted)}} \times \left( \frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{0.3}
\]

**Bearing Curve**

**Motor Model Code**

AE3 - Motor 200-33 (48V AC, Peak Motor Torque 42 Nm @ 350 Arms)

**Options**

Z - Seal boot

**Reduction**

036 - 35.92:1

048 - 47.60:1

057 - 57.49:1

072 - 71.94:1

096 - 96.15:1

118 - 118.21:1

**Thermal Rating**

Motor #   60 minutes   2 minutes

200-33   3.54 at 4847 RPM & 54 Arms

5.20 at 1107 RPM & 255 Arms
7HE integrated electric drives utilize smaller, lighter, and more efficient permanent magnet electric motors to deliver the torque, output, and long-life performance required for industrial machinery and off-highway mobile equipment.

The 7HE is available in double and triple planetary options with a spring-applied, electronically released brake.

Typical applications include, but are not limited to:
- Aerial work platforms
- Rough terrain forklifts
- Commercial turf equipment
- Ground support equipment
- Light-/medium-duty construction
- Industrial equipment
- Automated guided vehicles
- Tugs and push backs

Key Features:
- Compact length
- Integrated parking brake
- IP67 motor ingress protection
- Enhanced gear design for quieter operation
- Greater efficiency with improved battery life