## SIMOTICS – Motors on the path to the digital enterprise

### Summary description

- **Maximum speed** $n_{\text{Max}}$  
- **Rated speed** $n_{\text{N}}$  
- **Max. torque** $M_{\text{max}}$  
- **Motor efficiency class**
  - **Cooling method**
  - **Explosion protection**

### Product overview

#### SIMOTICS SD

<table>
<thead>
<tr>
<th>Size</th>
<th>Horsepower (HP)</th>
<th>Voltage (V)</th>
<th>RPM</th>
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<tbody>
<tr>
<td>M1</td>
<td>0.1 to 0.28</td>
<td>230 to 690</td>
<td>≤ 2,750</td>
<td>IEC: D81.2</td>
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<tr>
<td>M2</td>
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<td>230 to 690</td>
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<tr>
<td>M3</td>
<td>0.88 to 3.7</td>
<td>400 to 480</td>
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<tr>
<td>M4</td>
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### Technical specifications

- **Rated torque** $T_{\text{N}}$  
- **Max. torque** $M_{\text{max}}$  
- **Motor efficiency class**
- **Cooling method**
- **Explosion protection**

### Optional features

- **HTL pulse encoder**
- **Motor brake**
- **DRIVE-CLiQ interface**
- **Encoderless operation**
- **Resolver**
- **TTL pulse encoder**
- **High-speed encoder**

### High-voltage drives

- **Rated power** $P_{\text{N}}$  
- **Rated voltage** $U_{\text{N}}$  
- **Rated current** $I_{\text{N}}$  
- **Converter operation**

### Special applications

- **Marine applications**
- **High-temp applications**
- **High-speed applications**
- **High-load applications**
- **High-reliability systems**
- **High-precision systems**
- **High-performance systems**
- **High-voltage systems**

### Notes

- **Cooling method**
- **Explosion protection**
- **Rated voltage** $U_{\text{N}}$  
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