### HYOSUNG

**OUTPUT** 37 kW

**VOLTAGE**

**POLES** 6 P

**FULL LOAD TORQUE** 36.59 kg·m

**FULL LOAD CURRENT** A

**LOCKED ROTOR TORQUE** 160 %

**LOCKED-ROTOR CURRENT** 700 %

**BREAKDOWN TORQUE** 200 %

**SPEED (at FULL LOAD)** 985 r/min

**GD² of LOAD** 9.439 kg·m²

**GD² of MOTOR** 9.439 kg·m²

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**NOTE**

- **A**: SPEED-TORQUE CURVE AT 100% RATED VOLTAGE
- **B**: SPEED-TORQUE CURVE AT 90% RATED VOLTAGE
- **C**: SPEED-TORQUE CURVE AT 80% RATED VOLTAGE
- **D**: SPEED-CURRENT CURVE AT 100% RATED VOLTAGE
- **E**: SPEED-CURRENT CURVE AT 90% RATED VOLTAGE
- **F**: SPEED-CURRENT CURVE AT 80% RATED VOLTAGE
# THERMAL LIMIT & TIME - CURRENT CURVE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT</td>
<td>37 kW</td>
</tr>
<tr>
<td>POLES</td>
<td>6 P</td>
</tr>
<tr>
<td>VOLTAGE</td>
<td>V</td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>50 Hz</td>
</tr>
<tr>
<td>FULL LOAD TORQUE</td>
<td>36.59 kg·m</td>
</tr>
<tr>
<td>FULL LOAD CURRENT</td>
<td>A</td>
</tr>
<tr>
<td>LOCKED ROTOR TORQUE</td>
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<td>200 %</td>
</tr>
<tr>
<td>SPEED (at FULL LOAD)</td>
<td>985 r/min</td>
</tr>
<tr>
<td>GD² of LOAD :</td>
<td>9.439 kg·m²</td>
</tr>
<tr>
<td>GD² of MOTOR</td>
<td>9.439 kg·m²</td>
</tr>
</tbody>
</table>

## NOTE

- **A**: THERMAL LIMIT CURVE AT HOT CONDITION
- **B**: THERMAL LIMIT CURVE AT COLD CONDITION
- **C**: TIME-CURRENT CURVES(C,D,E) NEED BELOW DATA TO BE DRAW!
- **D**: * LOAD GD² AT MOTOR SHAFT
- **E**: * SPEED-TORQUE CURVE OF LOAD
## LOAD - POWER FACTOR & EFFICIENCY CURVE

**Output**: 37 kW  
**POLES**: 6 P  
**Voltage**: 380 V  
**Frequency**: 50 Hz  
**Full Load Torque**: 36.59 kg·m  
**Locked Rotor Torque**: 160 %  
**Breakdown Torque**: 200 %  
**GD² of Load**: 160 kg·m²  
**GD² of Motor**: 9.439 kg·m²

### Graph

- **A**: LOAD - POWER FACTOR CURVE
- **B**: LOAD - EFFICIENCY CURVE

### NOTE

- **A**, 90.3%
- **B**, 93.3%
- **A**, 80.0%
- **B**, 75.0%
- **B**, 70.0%
- **B**, 65.0%