## SPEED - TORQUE & CURRENT CURVE

### OUTPUT
- 55 kW
- 6 P

### VOLTAGE
- 54.1 V

### FULL LOAD TORQUE
- 50 Hz
- 115 %

### LOCKED ROTOR TORQUE
- 180 %

### BREAKDOWN TORQUE
- 180 %

### GD² of LOAD:
- 13.02 kg·m²

### GD² of MOTOR:
- 620 %

### SPEED (at FULL LOAD)
- 990 r/min

### 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

### Diagram
- Torque (in % of full load torque) vs. speed (in % of synchronous speed)
<table>
<thead>
<tr>
<th>OUTPUT</th>
<th>55 kW</th>
<th>POLES</th>
<th>6 P</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLTAGE</td>
<td>380 V</td>
<td>FREQUENCY</td>
<td>50 Hz</td>
</tr>
<tr>
<td>FULL LOAD TORQUE</td>
<td>54.1 kg·m</td>
<td>FULL LOAD CURRENT</td>
<td>A</td>
</tr>
<tr>
<td>LOCKED ROTOR TORQUE</td>
<td>115 %</td>
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</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**

| Curve No. | 1PE_D1ML10124 |

**OUTPUT**  55 kW  POLES  6 P

**VOLTAGE**  V  FREQUENCY  50 Hz

**FULL LOAD TORQUE**  54.1 kg·m  FULL LOAD CURRENT  A

**LOCKED ROTOR TORQUE**  115 %  LOCKED-ROTOR CURRENT  620 %

**BREAKDOWN TORQUE**  180 %  SPEED (at FULL LOAD)  990 r/min

**GD² of LOAD**  - kg·m²  **GD² of MOTOR**  13.02 kg·m²

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**NOTE**

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