**HYOSUNG**

**SPEED - TORQUE & CURRENT CURVE**

```
| OUTPUT   | 22 kW | POLES | 6 P |
| VOLTAGE  | V     | FREQUENCY | 50 Hz |
| FULL LOAD TORQUE | 21.8 kg·m | FULL LOAD CURRENT | A |
| LOCKED ROTOR TORQUE | 150 % | LOCKED-ROTOR CURRENT | 700 % |
| BREAKDOWN TORQUE   | 250 % | SPEED (at FULL LOAD) | 980 r/min |
| GD$^2$ of LOAD :   | - kg·m$^2$ | GD$^2$ of MOTOR | 2.315 kg·m$^2$ |
```

**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
**HYOSUNG**

**THERMAL LIMIT & TIME - CURRENT CURVE**

| Curve No. | 1TL_D1ML10120 |

**OUTPUT**: 22 kW

**POLES**: 6 P

**VOLTAGE**: V

**FREQUENCY**: 50 Hz

**FULL LOAD TORQUE**: 21.8 kg·m

**FULL LOAD CURRENT**: A

**LOCKED ROTOR TORQUE**: 150 %

**LOCKED-ROTOR CURRENT**: 700 %

**BREAKDOWN TORQUE**: 250 %

**SPEED (at FULL LOAD)**: 980 r/min

**GD² of LOAD**: - kg·m²

**GD² of MOTOR**: 2.315 kg·m²

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**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

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**Diagram**

- **A, 17sec**
- **B, 24sec**

**TIME IN SEC**

**CURRENT (IN % OF FULL LOAD CURRENT)**

- 100%
- 200%
- 300%
- 400%
- 500%
- 600%
- 700%
- 800%

- 0.1sec
- 1sec
- 10sec
- 100sec
- 1000sec
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
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<tr>
<td>OUTPUT</td>
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<td>6 P</td>
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<tr>
<td>GD^2 of LOAD</td>
<td>- kg·m^2</td>
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<td>2.315 kg·m^2</td>
</tr>
</tbody>
</table>

**NOTE**

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