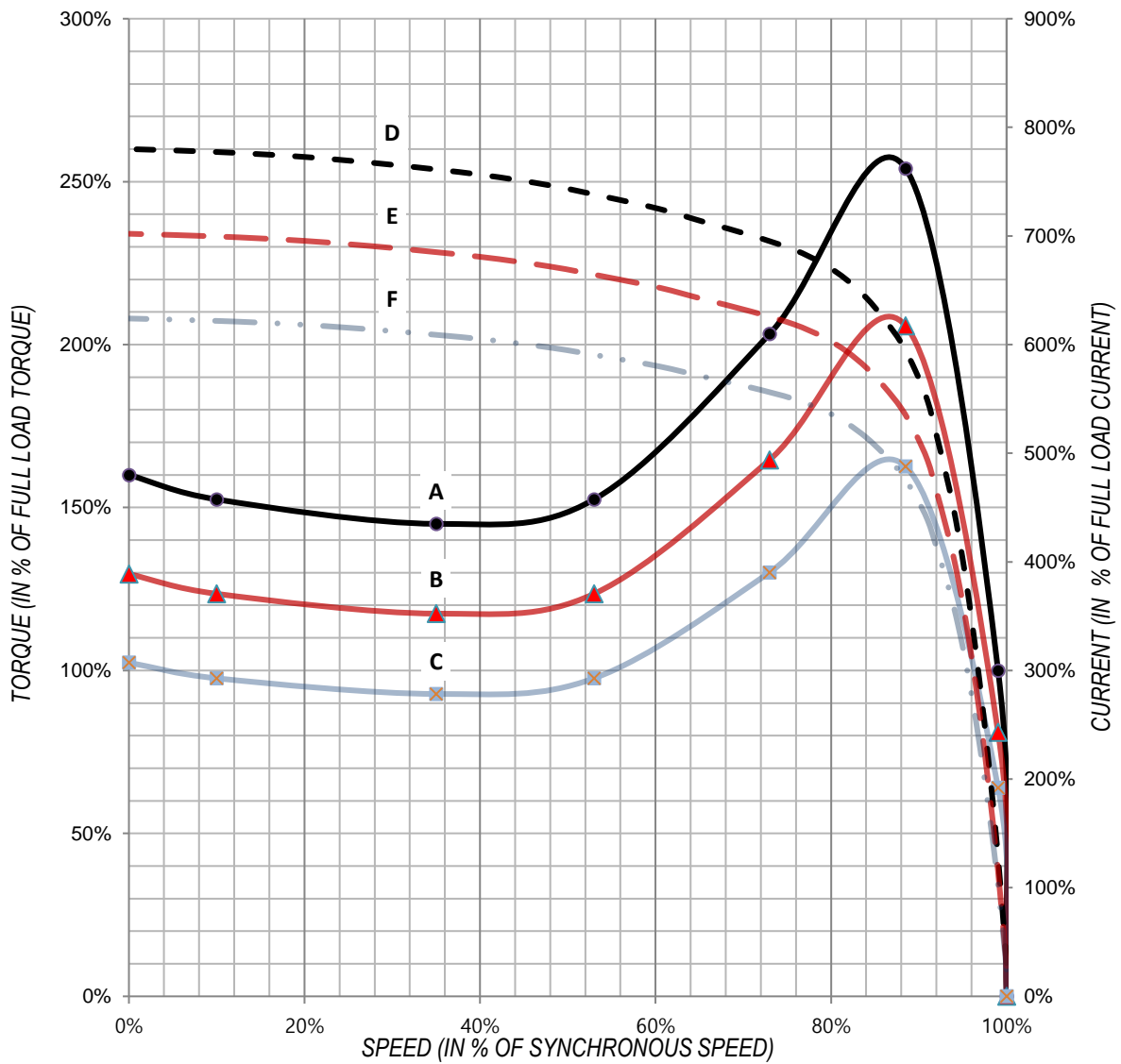


**SPEED - TORQUE & CURRENT CURVE**

Curve No.

1ST\_D1ML20223

|                           |                     |                          |                        |
|---------------------------|---------------------|--------------------------|------------------------|
| OUTPUT                    | 55 kW               | POLES                    | 2 P                    |
| VOLTAGE                   | - V                 | FREQUENCY                | 60 Hz                  |
| FULL LOAD TORQUE          | 15.0 kg·m           | FULL LOAD CURRENT        | - A                    |
| LOCKED ROTOR TORQUE       | 160 %               | LOCKED-ROTOR CURRENT     | 780 %                  |
| BREAKDOWN TORQUE          | 260 %               | SPEED (at FULL LOAD)     | 3565 r/min             |
| GD <sup>2</sup> of LOAD : | - kg·m <sup>2</sup> | GD <sup>2</sup> of MOTOR | 1.32 kg·m <sup>2</sup> |



**NOTE**

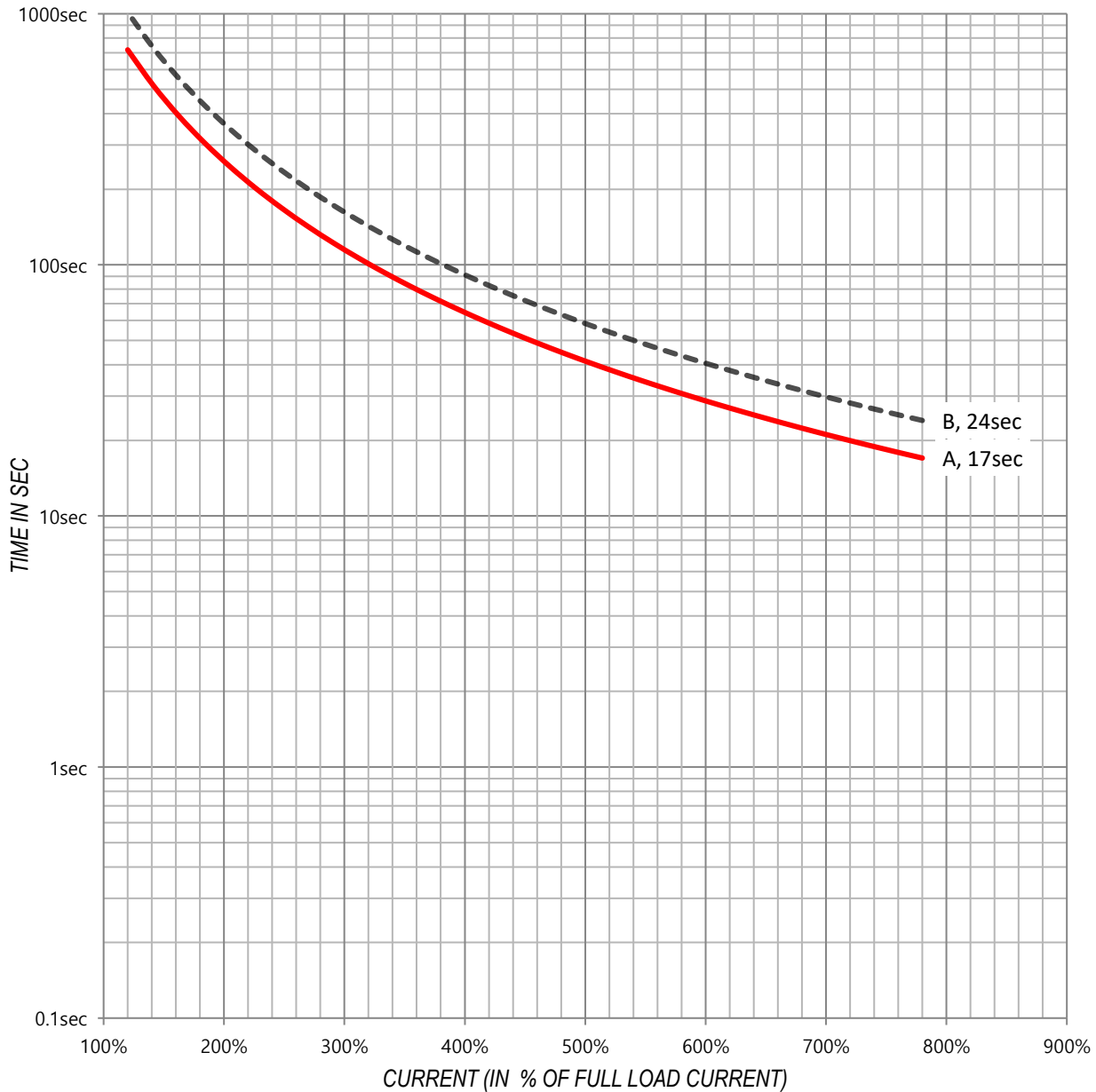
- A : SPEED-TORQUE CURVE AT 100% RATED VOLTAGE
- ▲— B : SPEED-TORQUE CURVE AT 90% RATED VOLTAGE
- C : SPEED-TORQUE CURVE AT 80% RATED VOLTAGE
- - - D : SPEED-CURRENT CURVE AT 100% RATED VOLTAGE
- - - E : SPEED-CURRENT CURVE AT 90% RATED VOLTAGE
- · · F : SPEED-CURRENT CURVE AT 80% RATED VOLTAGE

**THERMAL LIMIT & TIME - CURRENT CURVE**

Curve No.

1TL\_D1ML20223

|                           |                     |                          |                        |
|---------------------------|---------------------|--------------------------|------------------------|
| OUTPUT                    | 55 kW               | POLES                    | 2 P                    |
| VOLTAGE                   | - V                 | FREQUENCY                | 60 Hz                  |
| FULL LOAD TORQUE          | 15.0 kg·m           | FULL LOAD CURRENT        | - A                    |
| LOCKED ROTOR TORQUE       | 160 %               | LOCKED-ROTOR CURRENT     | 780 %                  |
| BREAKDOWN TORQUE          | 260 %               | SPEED (at FULL LOAD)     | 3565 r/min             |
| GD <sup>2</sup> of LOAD : | - kg·m <sup>2</sup> | GD <sup>2</sup> of MOTOR | 1.32 kg·m <sup>2</sup> |

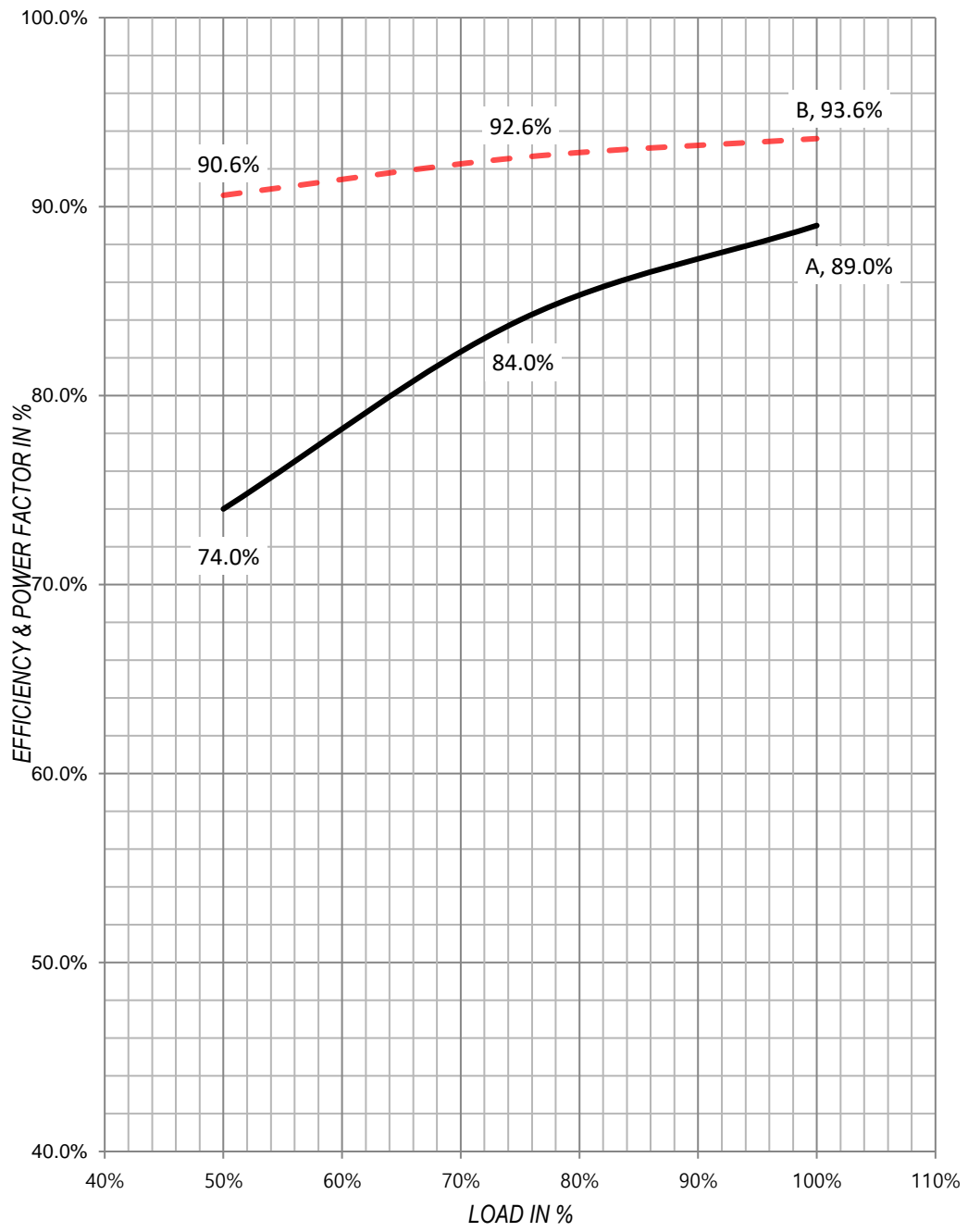


**NOTE**

- 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 DRAWN
- · - · - D \* LOAD GD<sup>2</sup> AT MOTOR SHAFT
- · · · · E \* SPEED-TORQUE CURVE OF LOAD

|   |   |  |                  |  |
|---|---|--|------------------|--|
|  | <b>LOAD - POWER FACTOR &amp; EFFICIENCY CURVE</b> |  | <b>Curve No.</b> |  |
|   |   |  | 1PE_D1ML20223    |  |

|                           |                     |                          |                        |
|---------------------------|---------------------|--------------------------|------------------------|
| OUTPUT                    | 55 kW               | POLES                    | 2 P                    |
| VOLTAGE                   | - V                 | FREQUENCY                | 60 Hz                  |
| FULL LOAD TORQUE          | 15.0 kg·m           | FULL LOAD CURRENT        | - A                    |
| LOCKED ROTOR TORQUE       | 160 %               | LOCKED-ROTOR CURRENT     | 780 %                  |
| BREAKDOWN TORQUE          | 260 %               | SPEED (at FULL LOAD)     | 3565 r/min             |
| GD <sup>2</sup> of LOAD : | - kg·m <sup>2</sup> | GD <sup>2</sup> of MOTOR | 1.32 kg·m <sup>2</sup> |



**NOTE**

**A** : LOAD - POWER FACTOR CURVE  

**B** : LOAD - EFFICIENCY CURVE