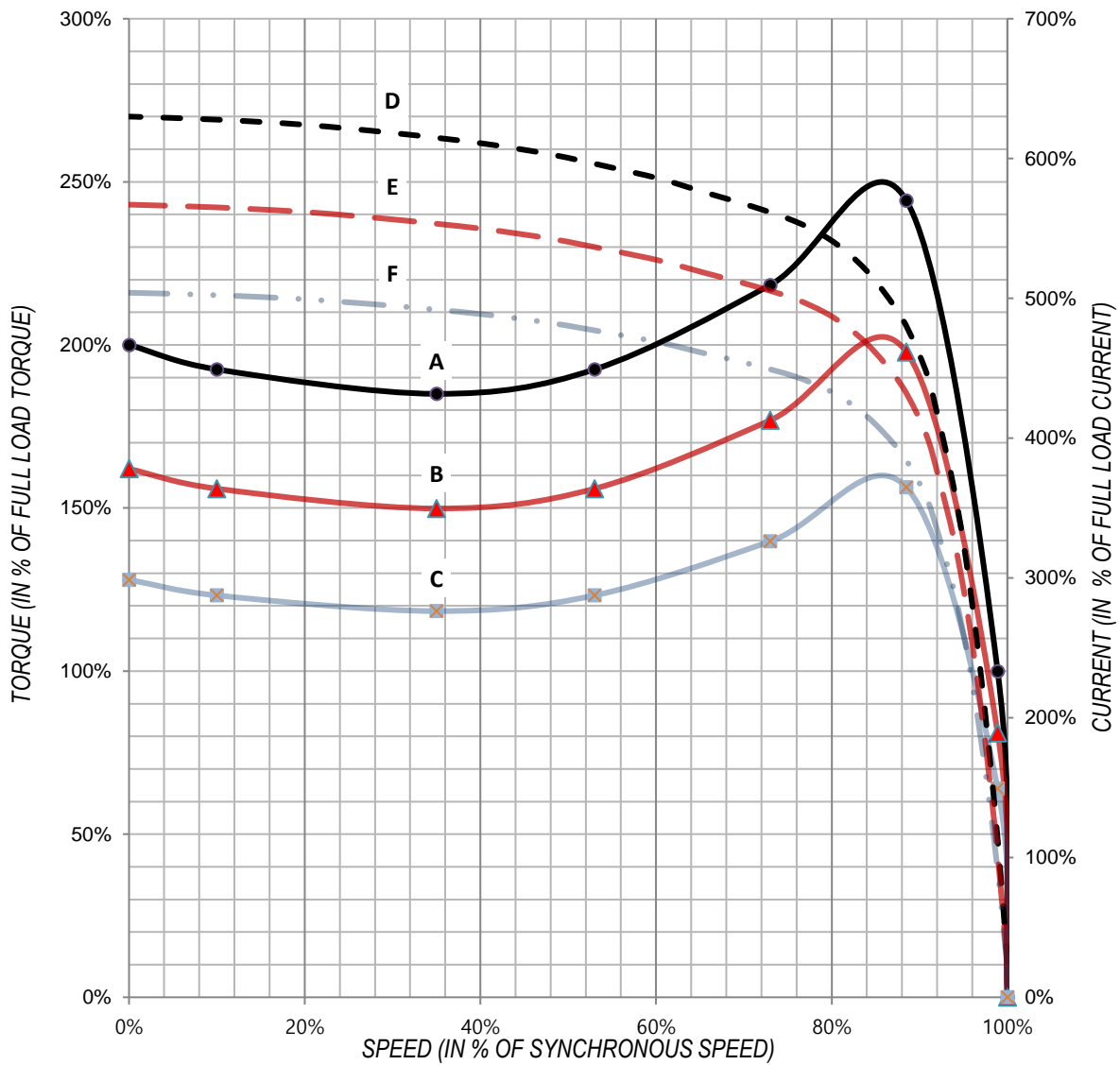


**SPEED - TORQUE & CURRENT CURVE**

**Curve No.**

1ST\_D1ML7757

|                           |                     |                          |                         |
|---------------------------|---------------------|--------------------------|-------------------------|
| OUTPUT                    | 45 kW               | POLES                    | 4 P                     |
| VOLTAGE                   | - V                 | FREQUENCY                | 60 Hz                   |
| FULL LOAD TORQUE          | 24.6 kg·m           | FULL LOAD CURRENT        | - A                     |
| LOCKED ROTOR TORQUE       | 200 %               | LOCKED-ROTOR CURRENT     | 630 %                   |
| BREAKDOWN TORQUE          | 250 %               | SPEED (at FULL LOAD)     | 1780 r/min              |
| GD <sup>2</sup> of LOAD : | - kg·m <sup>2</sup> | GD <sup>2</sup> of MOTOR | 1.603 kg·m <sup>2</sup> |

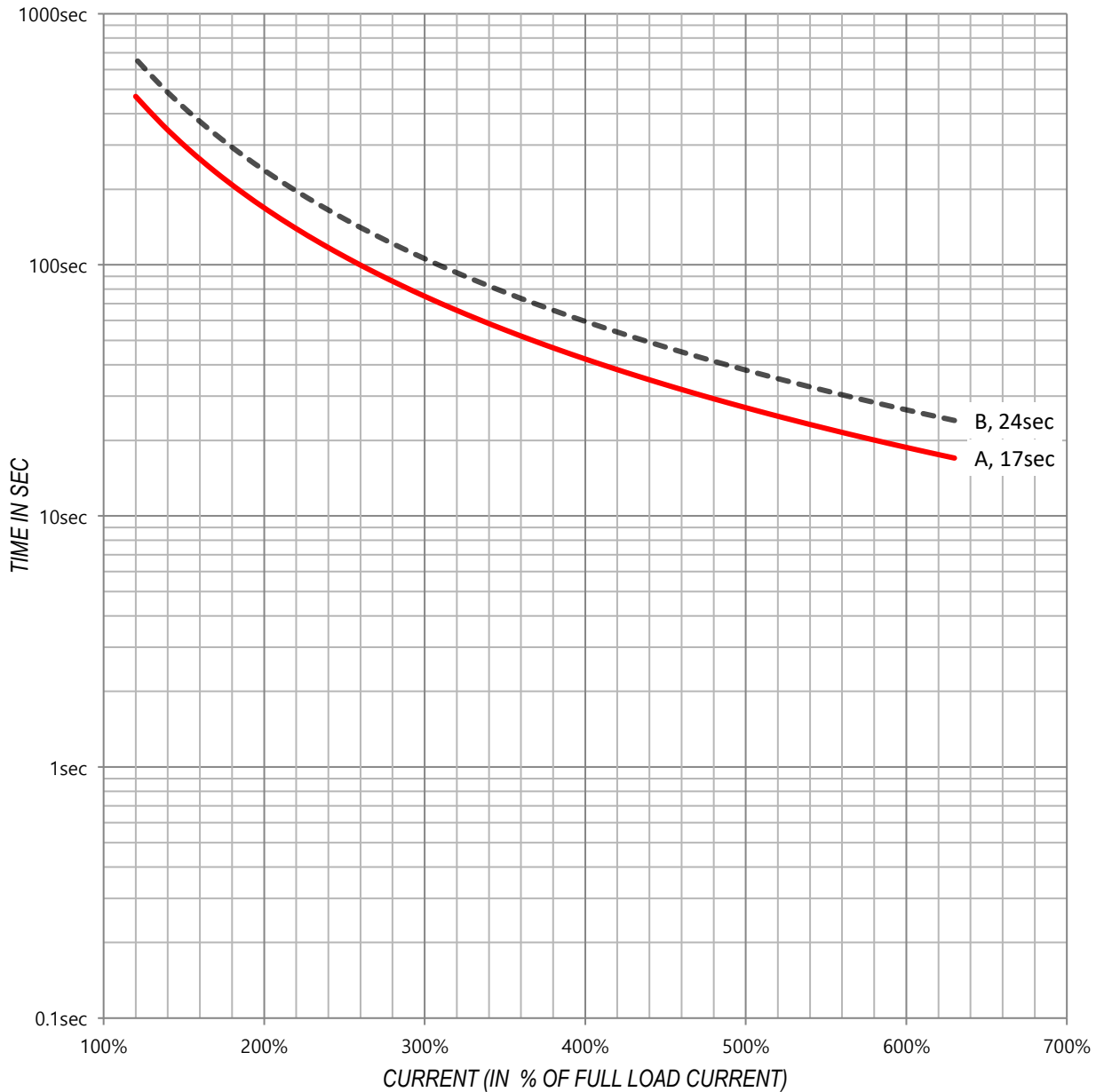


**NOTE**

- 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

|   |   |  |                  |  |
|---|---|--|------------------|--|
|  | <b>THERMAL LIMIT &amp;<br/>TIME - CURRENT CURVE</b> |  | <b>Curve No.</b> |  |
|   |   |  | 1TL_D1ML7757     |  |

|                           |                     |                          |                         |
|---------------------------|---------------------|--------------------------|-------------------------|
| OUTPUT                    | 45 kW               | POLES                    | 4 P                     |
| VOLTAGE                   | - V                 | FREQUENCY                | 60 Hz                   |
| FULL LOAD TORQUE          | 24.6 kg·m           | FULL LOAD CURRENT        | - A                     |
| LOCKED ROTOR TORQUE       | 200 %               | LOCKED-ROTOR CURRENT     | 630 %                   |
| BREAKDOWN TORQUE          | 250 %               | SPEED (at FULL LOAD)     | 1780 r/min              |
| GD <sup>2</sup> of LOAD : | - kg·m <sup>2</sup> | GD <sup>2</sup> of MOTOR | 1.603 kg·m <sup>2</sup> |

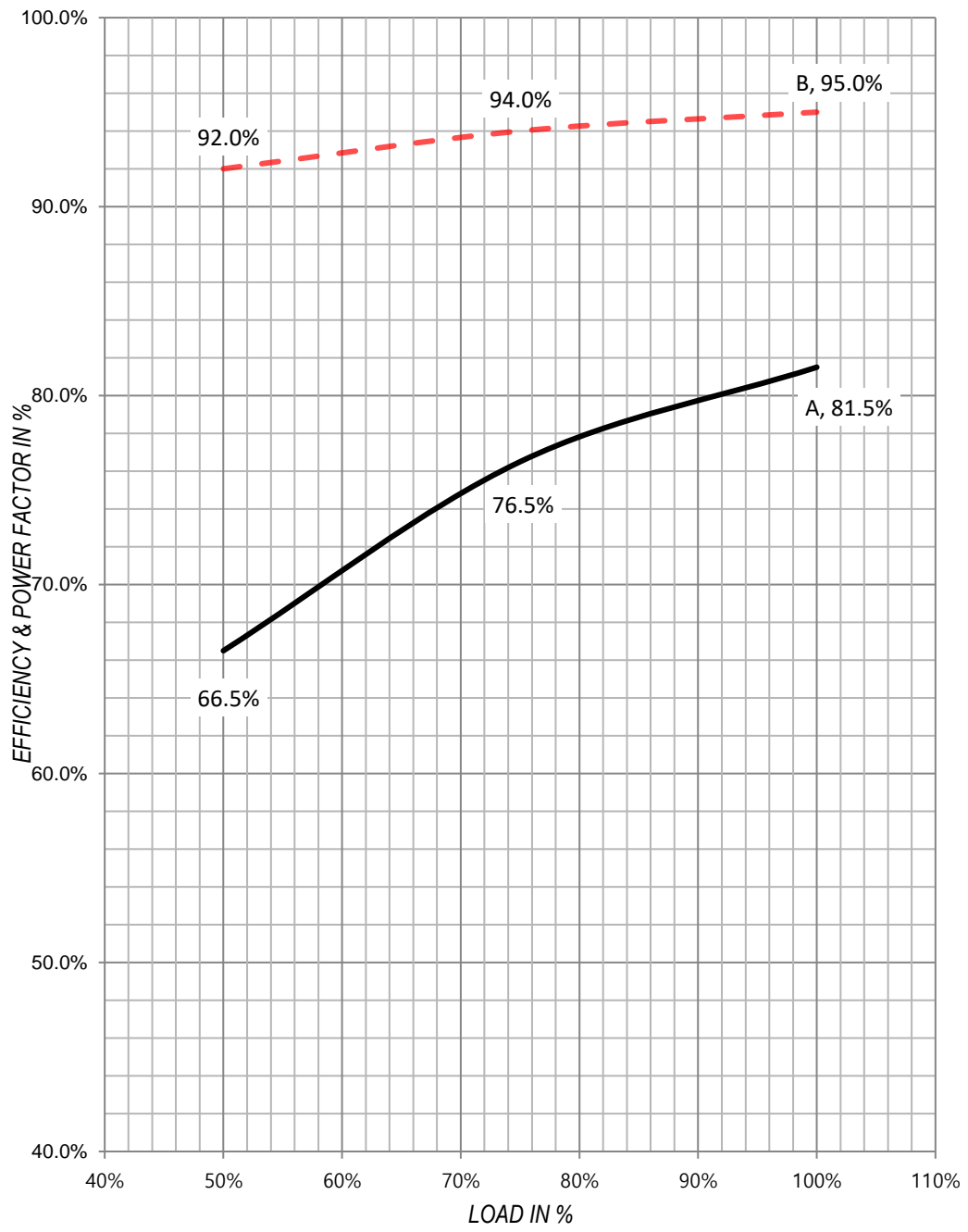


**NOTE**

- 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_D1ML7757     |  |

|                           |                     |                          |                         |
|---------------------------|---------------------|--------------------------|-------------------------|
| OUTPUT                    | 45 kW               | POLES                    | 4 P                     |
| VOLTAGE                   | - V                 | FREQUENCY                | 60 Hz                   |
| FULL LOAD TORQUE          | 24.6 kg·m           | FULL LOAD CURRENT        | - A                     |
| LOCKED ROTOR TORQUE       | 200 %               | LOCKED-ROTOR CURRENT     | 630 %                   |
| BREAKDOWN TORQUE          | 250 %               | SPEED (at FULL LOAD)     | 1780 r/min              |
| GD <sup>2</sup> of LOAD : | - kg·m <sup>2</sup> | GD <sup>2</sup> of MOTOR | 1.603 kg·m <sup>2</sup> |



**NOTE**

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