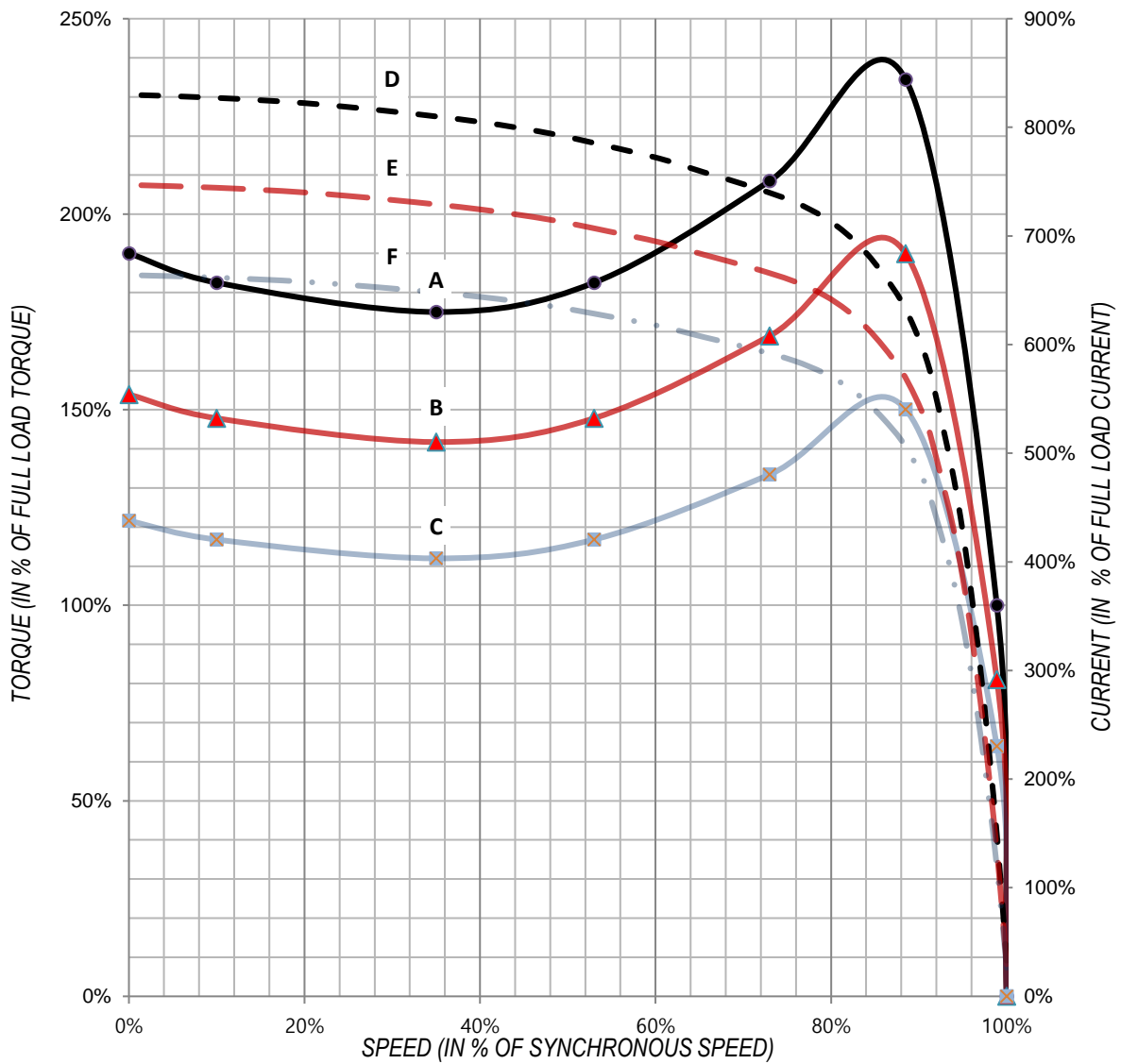


**SPEED - TORQUE & CURRENT CURVE**

**Curve No.**

1ST\_D1ML20212

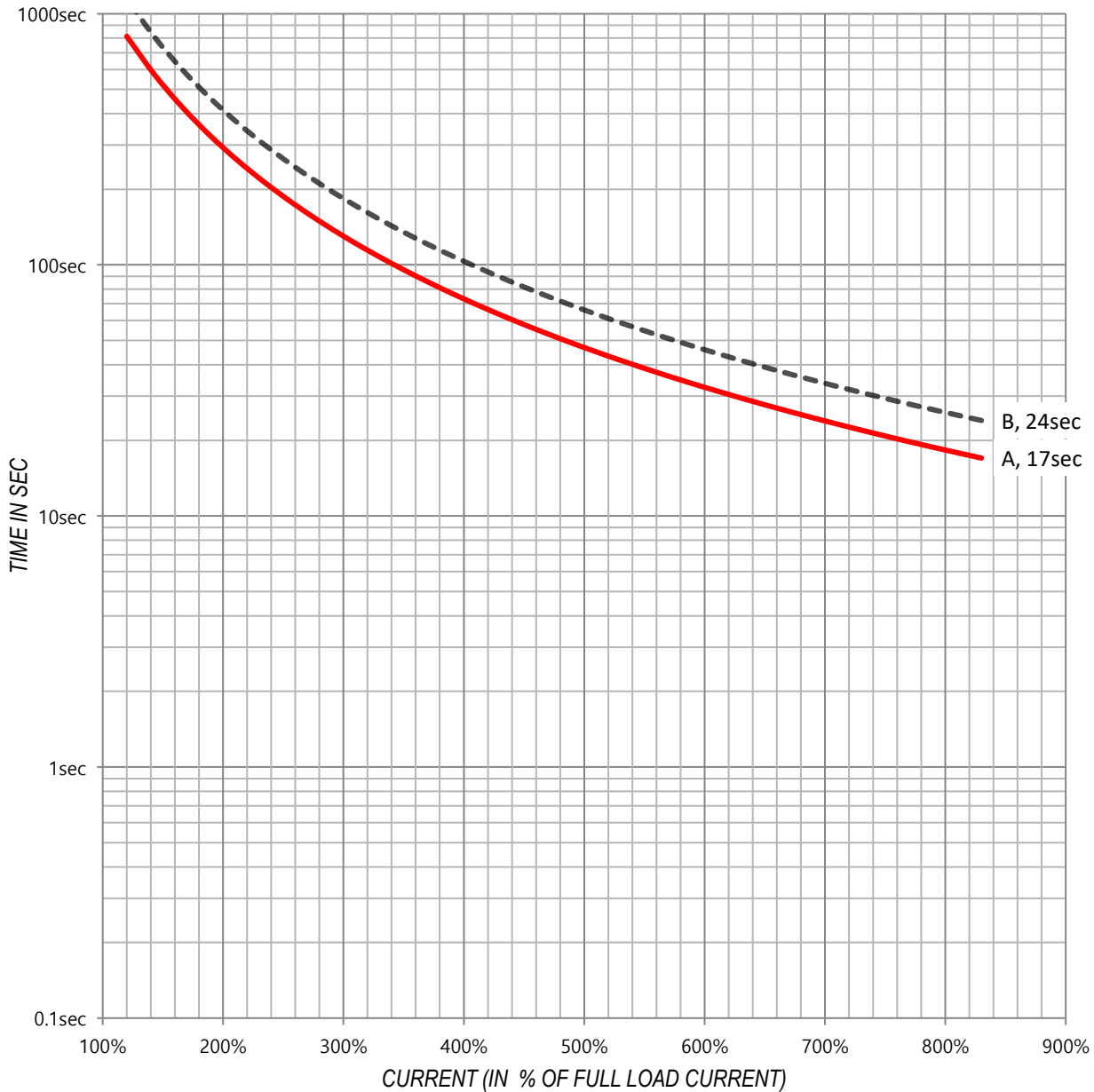
OUTPUT	45 kW	POLES	2 P
VOLTAGE	- V	FREQUENCY	60 Hz
FULL LOAD TORQUE	12.3 kg·m	FULL LOAD CURRENT	- A
LOCKED ROTOR TORQUE	190 %	LOCKED-ROTOR CURRENT	830 %
BREAKDOWN TORQUE	240 %	SPEED (at FULL LOAD)	3560 r/min
GD <sup>2</sup> of LOAD :	- kg·m <sup>2</sup>	GD <sup>2</sup> of MOTOR	0.884 kg·m <sup>2</sup>



**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>HYOSUNG</b> HEAVY INDUSTRIES	<b>THERMAL LIMIT &amp; TIME - CURRENT CURVE</b>			<b>Curve No.</b>	
				1TL_D1ML20212	
OUTPUT	45 kW	POLES	2 P		
VOLTAGE	- V	FREQUENCY	60 Hz		
FULL LOAD TORQUE	12.3 kg·m	FULL LOAD CURRENT	- A		
LOCKED ROTOR TORQUE	190 %	LOCKED-ROTOR CURRENT	830 %		
BREAKDOWN TORQUE	240 %	SPEED (at FULL LOAD)	3560 r/min		
GD <sup>2</sup> of LOAD :	- kg·m <sup>2</sup>	GD <sup>2</sup> of MOTOR	0.884 kg·m <sup>2</sup>		



**NOTE**

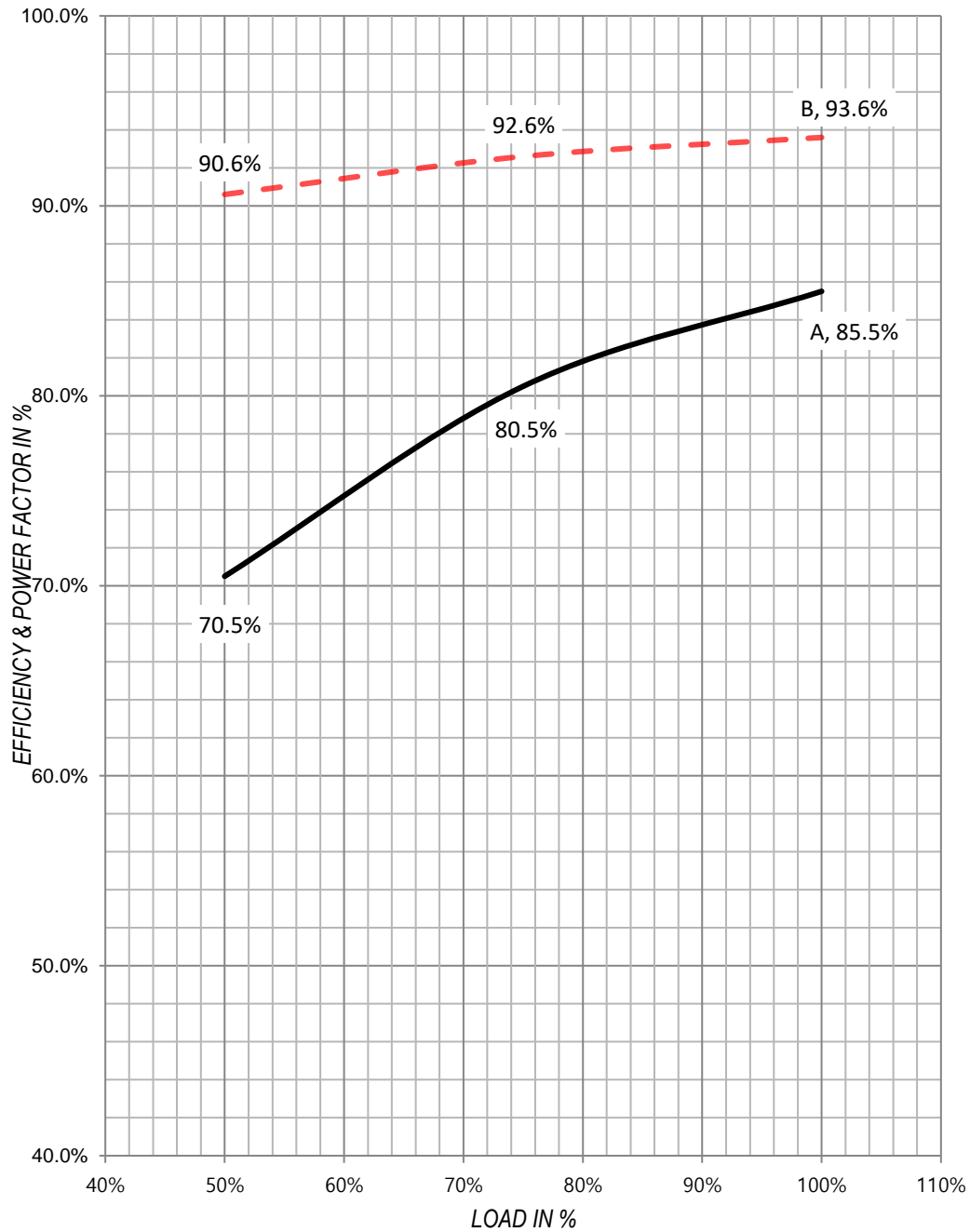
- A : THERMAL LIMIT CURVE AT HOT CONDITION
- - - B : THERMAL LIMIT CURVE AT COLD CONDITION
- · — C ※TIME-CURRENT CURVES(C,D,E) NEED BELOW DATA TO BE DRAWN
- · - D \* LOAD GD<sup>2</sup> AT MOTOR SHAFT
- · · E \* SPEED-TORQUE CURVE OF LOAD

**LOAD - POWER FACTOR & EFFICIENCY CURVE**

Curve No.

1PE\_D1ML20212

OUTPUT	45 kW	POLES	2 P
VOLTAGE	- V	FREQUENCY	60 Hz
FULL LOAD TORQUE	12.3 kg·m	FULL LOAD CURRENT	- A
LOCKED ROTOR TORQUE	190 %	LOCKED-ROTOR CURRENT	830 %
BREAKDOWN TORQUE	240 %	SPEED (at FULL LOAD)	3560 r/min
GD <sup>2</sup> of LOAD :	- kg·m <sup>2</sup>	GD <sup>2</sup> of MOTOR	0.884 kg·m <sup>2</sup>



**NOTE**

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