



ELK MOTOR SAN. ve TİC. A.Ş.
www.elkmotor.com.tr
+90 (282) 726 92 94

TECHNICAL DATASHEET ACCORDING TO COMMISSION REGULATION (EU) 2019/1781 THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : 4EG180M4D-FA-BA-000

Date : 01.01.2023

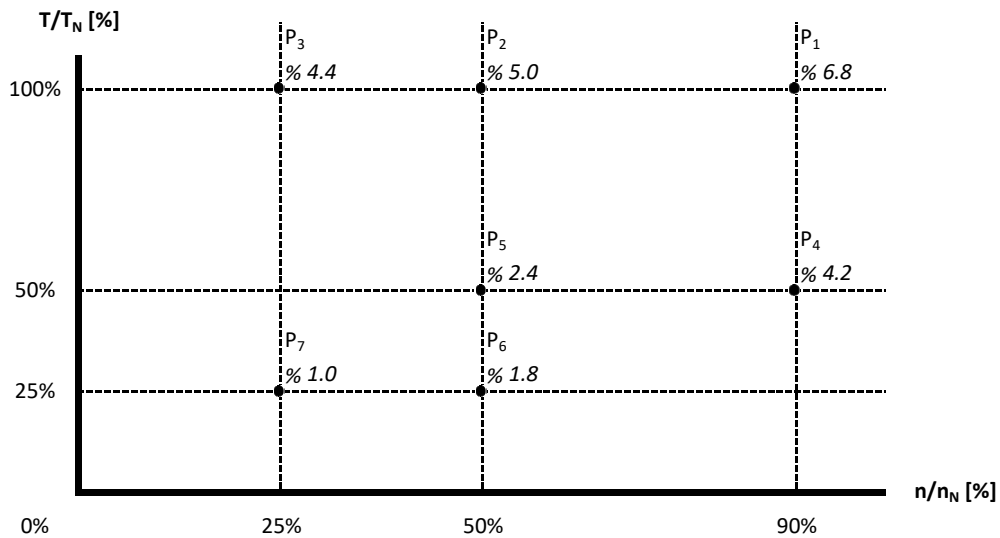
NAMEPLATE DATA

Power [kW]	: 18.5	Nominal Speed [rpm]	: 1475
Nominal Voltage [V]	: 400	Nominal Current [A]	: 34.6
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 120
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 94.2

THE POWER LOSSES AT SEVEN OPERATING POINTS ACCORDING TO COMMISSION REGULATION (EU) 2019/1781

Operating Point Number	Speed n/n_N [%]	Torque T/T_N [%]	Relative Power Losses P_L/P_N [%]	Efficiency η [%]
P ₁	90	100	6.8	93.0
P ₂	50	100	5.0	90.9
P ₃	25	100	4.4	85.0
P ₄	90	50	4.2	91.4
P ₅	50	50	2.4	91.1
P ₆	50	25	1.8	87.6
P ₇	25	25	1.0	86.1

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



Manufactured and tested in accordance with IEC 60034

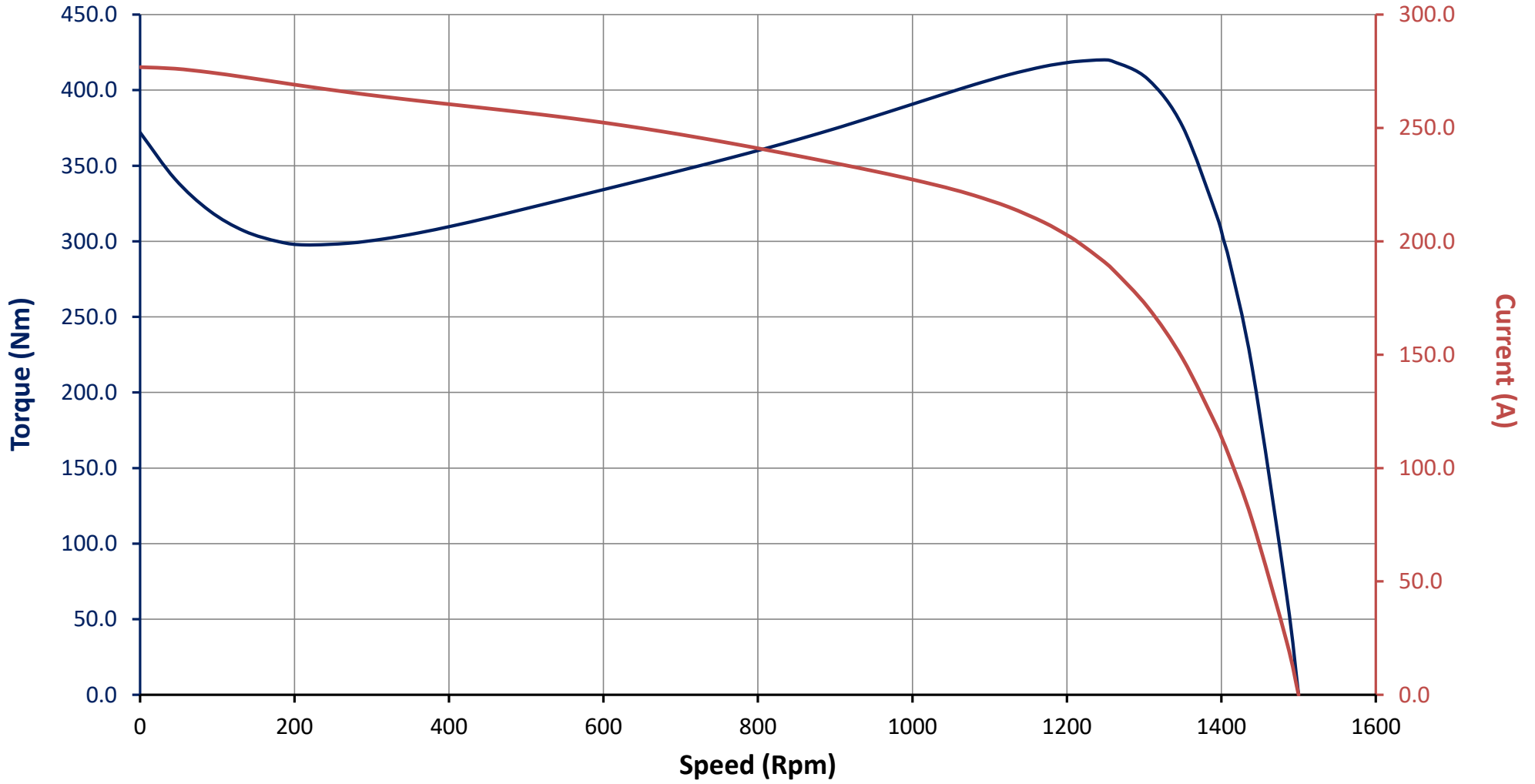
FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

*ELK Motor has right to change all the data without prior notice.

Motor Code : 4EG180M4D-FA-BA-000

Torque and Current Curves Related to Speed



Motor Code : 4EG180M4D-FA-BA-000

Performance Curves Related to Rated Output

