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

Type : 3EG280S6B-PD-BA-000

Date : 01.01.2023

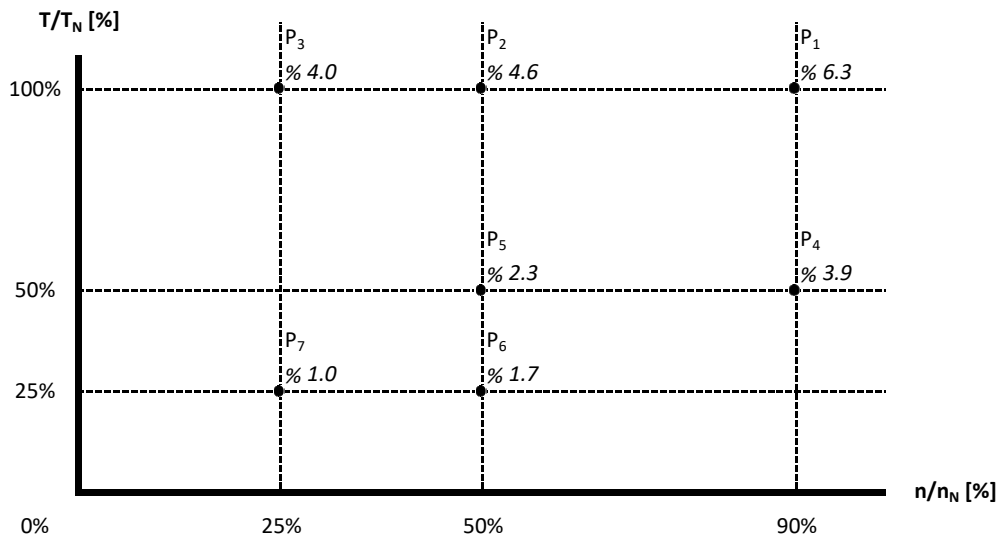
NAMEPLATE DATA

Power [kW]	: 45.0	Nominal Speed [rpm]	: 989
Nominal Voltage [V]	: 400	Nominal Current [A]	: 83.5
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 435
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 93.7

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	6.3	93.5
P ₂	50	100	4.6	91.6
P ₃	25	100	4.0	86.3
P ₄	90	50	3.9	92.0
P ₅	50	50	2.3	91.6
P ₆	50	25	1.7	88.2
P ₇	25	25	1.0	86.4

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



Manufactured and tested in accordance with IEC 60034

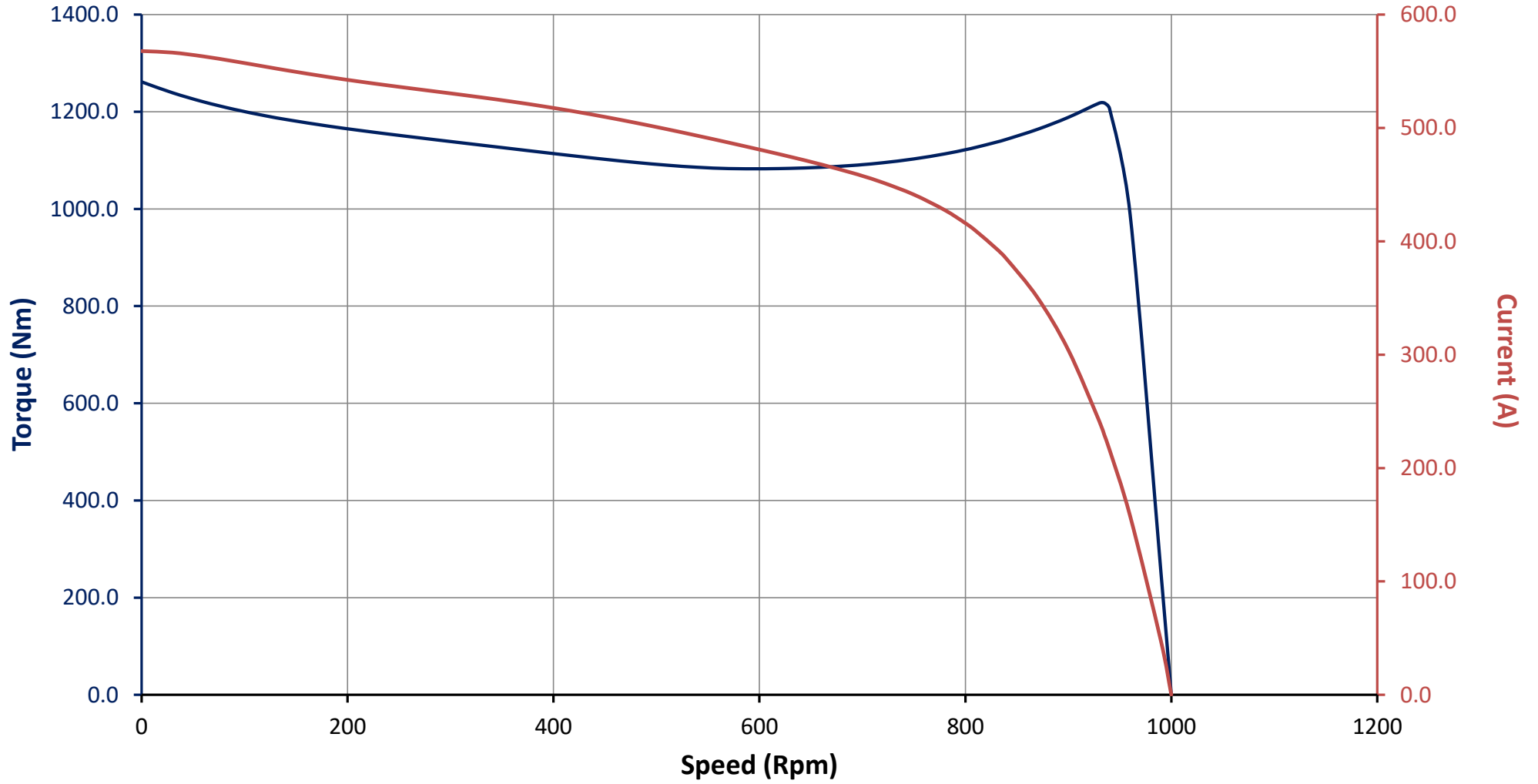
FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

*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 : 3EG280S6B-PD-BA-000

Torque and Current Curves Related to Speed



Motor Code : 3EG280S6B-PD-BA-000

Performance Curves Related to Rated Output

