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

Type : 3ED180M2C-PA-BA-000

Date : 01.01.2023

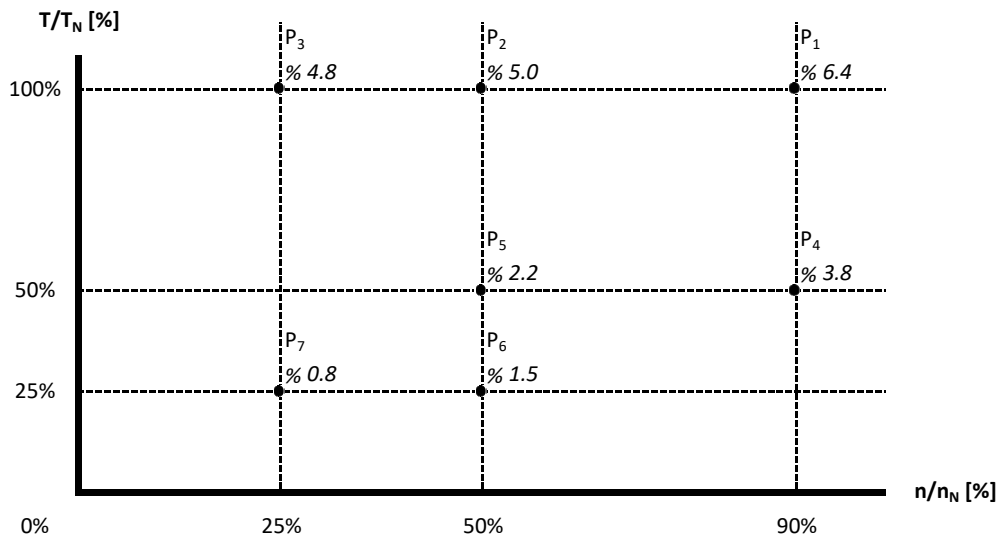
### NAMEPLATE DATA

Power [kW]	: 30.0	Nominal Speed [rpm]	: 2955
Nominal Voltage [V]	: 400	Nominal Current [A]	: 51.0
Connection Type [ $\Delta$ / Y]	: $\Delta$	Nominal Moment [Nm]	: 96.9
Nominal Frequency [Hz]	: 50	Nominal Efficiency [ $\eta$ %]	: 93.3

### 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 $\eta$ [%]
P <sub>1</sub>	90	100	6.4	93.3
P <sub>2</sub>	50	100	5.0	90.9
P <sub>3</sub>	25	100	4.8	84.0
P <sub>4</sub>	90	50	3.8	92.2
P <sub>5</sub>	50	50	2.2	91.9
P <sub>6</sub>	50	25	1.5	89.2
P <sub>7</sub>	25	25	0.8	88.3

### MAP OF RELATIVE POWER LOSSES $P_L/P_N$ [%]



Manufactured and tested in accordance with IEC 60034

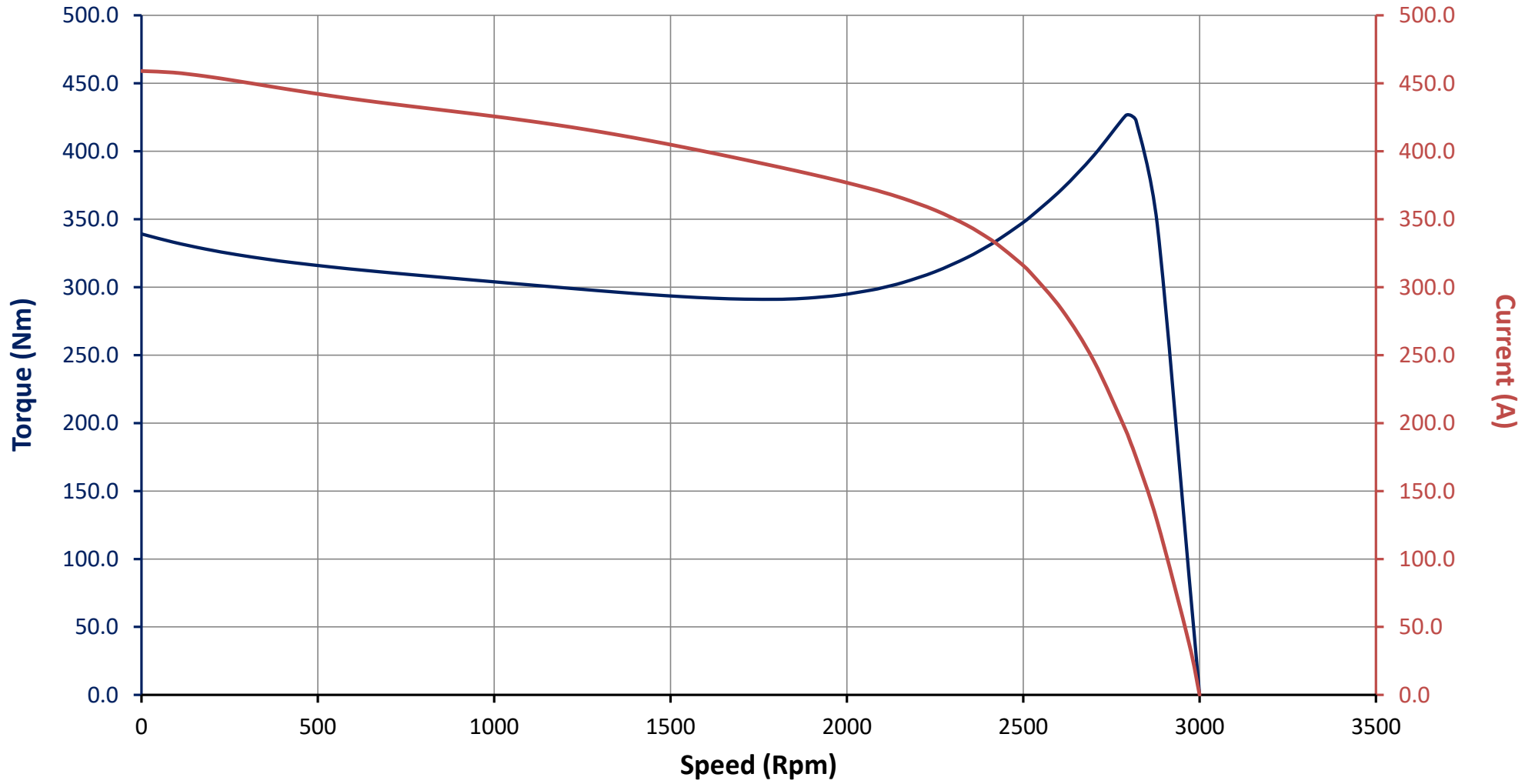
FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

\*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.

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### Torque and Current Curves Related to Speed



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### Performance Curves Related to Rated Output

