

Type : 3EL100L2C-FA-A0-000

Date : 06/04/2026

Power [kW]	: 3.00
Input Voltage [V]	: 400
Connection Type [Δ / Y]	: Y
Frequency [Hz]	: 50
Pole Number	: 2
Nominal Speed [rpm]	: 2910
Nominal Current [A]	: 5.58
Nominal Moment [Nm]	: 9.84
Nominal Efficiency [η]	: 87.1
Power Factor [cos ϕ]	: 0.89
Locked Rotor Current [I_a/I_n]	: 7.9
Locked Rotor Torque [Ma/Mn]	: 3.0
Breakdown Torque [Mk/Mn]	: 4.1
Motor Color	: RAL 7031
Ambient Temperature	: -15°C / +40°C

Efficiency Class	: IE3
Duty Cycle	: S1
Service Factor	: 1.20
Frame Size	: 100L
Weight [kg]	: 23.3
Insulation Class	: F [155°C]
Temperature Rise	: B [80°K]
Protection Class	: IP55
Vibration Severity Grade	: A
Method of Cooling	: IC411 (TEFC)
Direction of Rotation	: Bidirectional
Balance	: Half Key
Motor Thermal Protection	: --
Altitude Above Sea Level	: 1000m
Sound Pressure Level [dBA]	: 62

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cos φ	Cl
Δ	230	50	3.00	2910	9.66	87.1	87.6	86.9	0.89	IE3
Y	400	50	3.00	2910	5.58	87.1	87.6	86.9	0.89	IE3
Y	460	60	3.00	3505	4.80	88.5	89.0	88.3	0.89	IE3
Y	460	60	3.48	3495	5.42	88.5	88.5	87.7	0.91	IE3

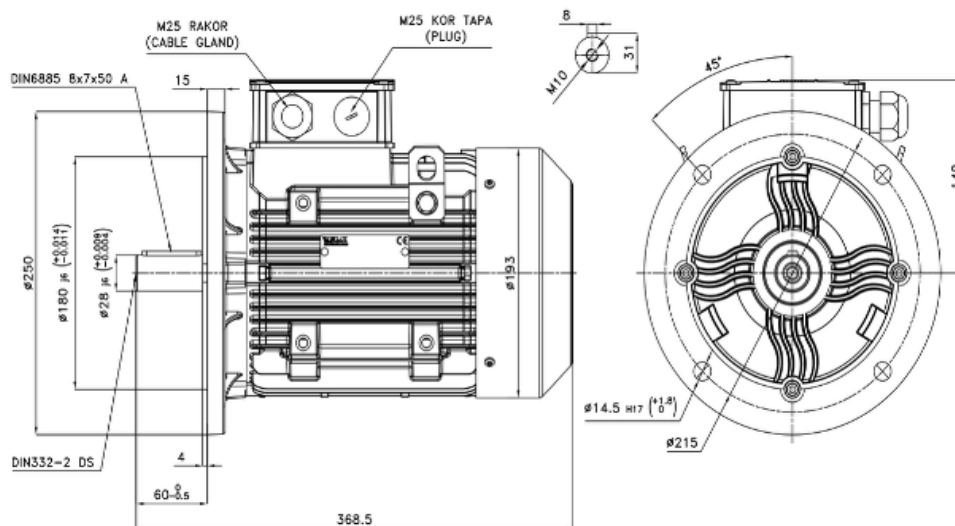
MECHANICAL DATA

Moment of Inertia [kgm ²]	: 0.00450
Bearing [DS / NS]	: 6206ZZ C3 / 6206ZZ C3
Frame Material	: Aluminum
Flange Type / Material	: B5 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: M25x1.5
Terminal Box Blind Cap	: M25x1.5
Contact Screw Thread	: M5

MECHANICAL DIMENSIONS



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.

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

Type : 3EL100L2C-FA-A0-000

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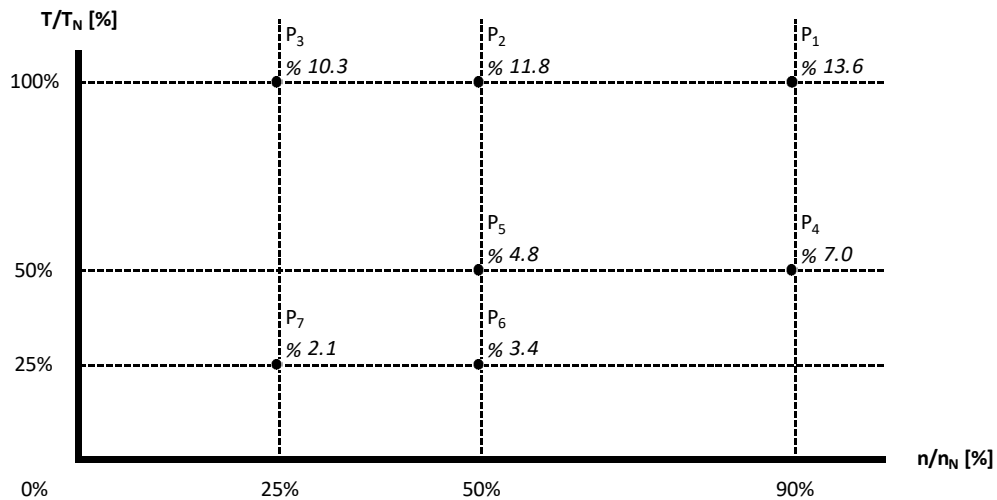
NAMEPLATE DATA

Power [kW]	: 3.00	Nominal Speed [rpm]	: 2910
Nominal Voltage [V]	: 400	Nominal Current [A]	: 5.58
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 9.84
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 87.1

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	13.6	86.9
P ₂	50	100	11.8	80.9
P ₃	25	100	10.3	70.8
P ₄	90	50	7.0	86.5
P ₅	50	50	4.8	83.8
P ₆	50	25	3.4	78.6
P ₇	25	25	2.1	75.3

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



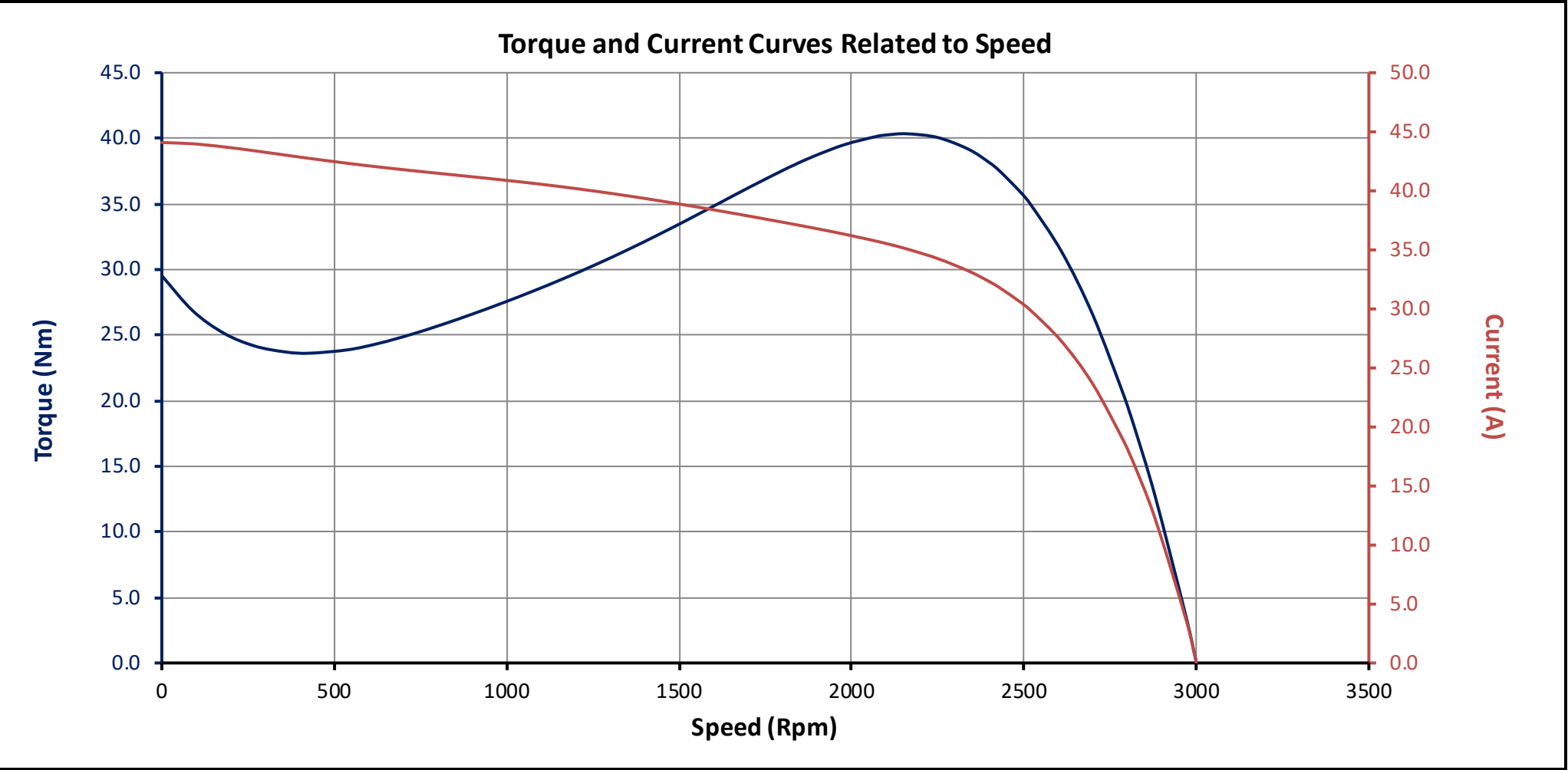
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Performance Curves Related to Rated Output

