

Type : 3EL100L4D-PD-A0-000**Date** : 12/08/2025

Power [kW] : 3.00
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 4
Nominal Speed [rpm] : 1450
Nominal Current [A] : 6.26
Nominal Moment [Nm] : 19.8
Nominal Efficiency [η] : 87.7
Power Factor [$\cos\phi$] : 0.79
Locked Rotor Current [I_a/I_n] : 7.2
Locked Rotor Torque [M_a/M_n] : 2.8
Breakdown Torque [M_k/M_n] : 3.6
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] : 26.7
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] : 53

ELECTRICAL DATA

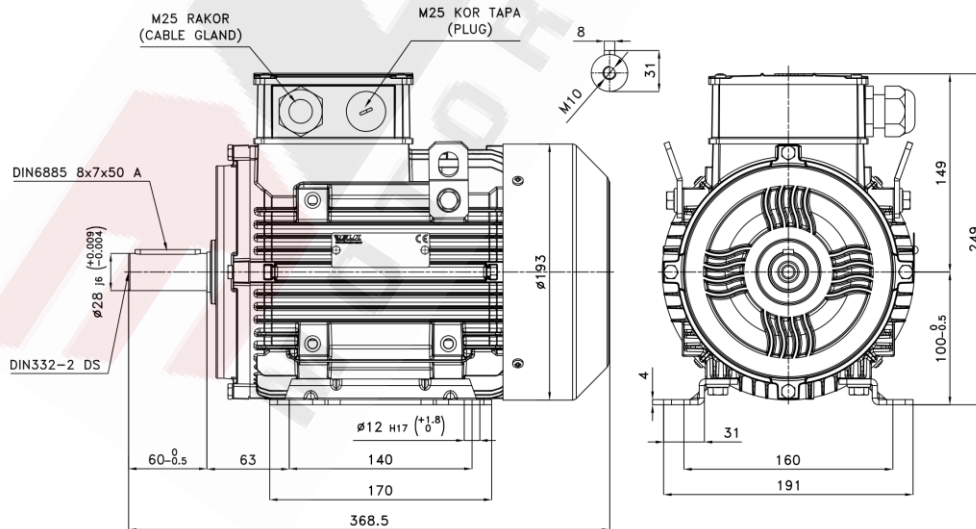
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	$\cos\phi$	CI
Δ	230	50	3.00	1450	10.8	87.7	88.0	87.0	0.79	IE3
Y	400	50	3.00	1450	6.26	87.7	88.0	87.0	0.79	IE3
Y	460	60	3.00	1760	5.47	89.5	89.3	88.2	0.77	IE3
Y	460	60	3.48	1750	6.23	87.5	88.0	87.0	0.80	IE2

MECHANICAL DATA

Moment of Inertia [kgm^2] : 0.00888
Bearing [DS / NS] : 6206ZZ C3 / 6206ZZ C3
Frame Material : Aluminum
Flange Type / Material : B3 / 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

*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.

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



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

Type : 3EL100L4D-PD-A0-000

Date : 12/08/2025

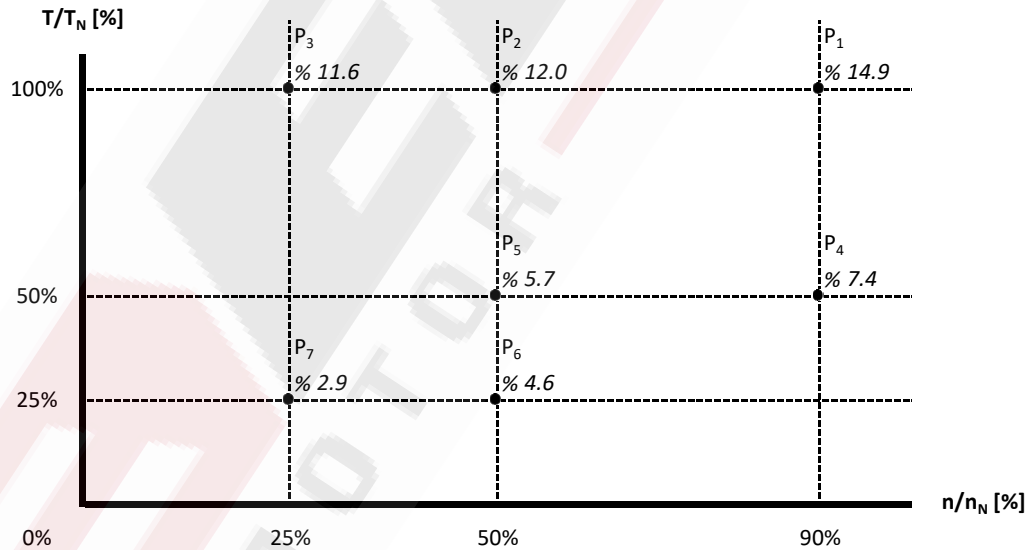
NAMEPLATE DATA

Power [kW]	: 3.00	Nominal Speed [rpm]	: 1450
Nominal Voltage [V]	: 400	Nominal Current [A]	: 6.26
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 19.8
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 87.7

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	14.9	85.8
P ₂	50	100	12.0	80.7
P ₃	25	100	11.6	68.4
P ₄	90	50	7.4	85.9
P ₅	50	50	5.7	81.5
P ₆	50	25	4.6	73.1
P ₇	25	25	2.9	68.3

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



Manufactured and tested in accordance with IEC 60034

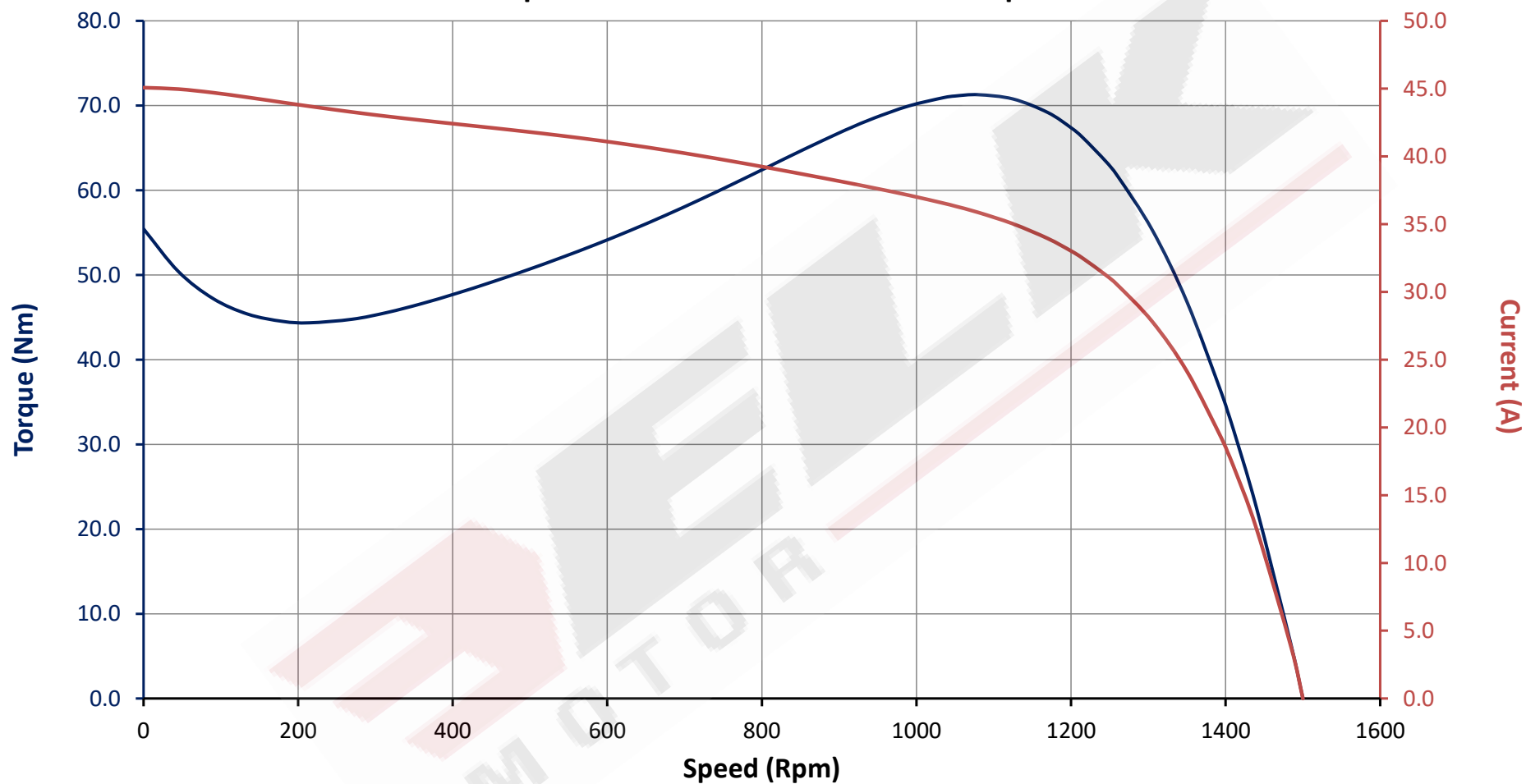
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Motor Code : 3EL100L4D-PD-A0-000

Torque and Current Curves Related to Speed



Motor Code : 3EL100L4D-PD-A0-000

Performance Curves Related to Rated Output

