

Type : 3EL132M4D-PD-B0-000**Date** : 12/08/2025

Power [kW] : 7.50
Input Voltage [V] : 400
Connection Type [Δ / Y] : Δ
Frequency [Hz] : 50
Pole Number : 4
Nominal Speed [rpm] : 1465
Nominal Current [A] : 14.8
Nominal Moment [Nm] : 48.9
Nominal Efficiency [η] : 90.4
Power Factor [$\cos\phi$] : 0.81
Locked Rotor Current [I_a/I_n] : 7.8
Locked Rotor Torque [M_a/M_n] : 3.2
Breakdown Torque [M_k/M_n] : 3.4
Motor Color : RAL 7031
Ambient Temperature : -15°C / +40°C

Efficiency Class : IE3
Duty Cycle : S1
Service Factor : 1.20
Frame Size : 132M
Weight [kg] : 59.5
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] : 61

ELECTRICAL DATA

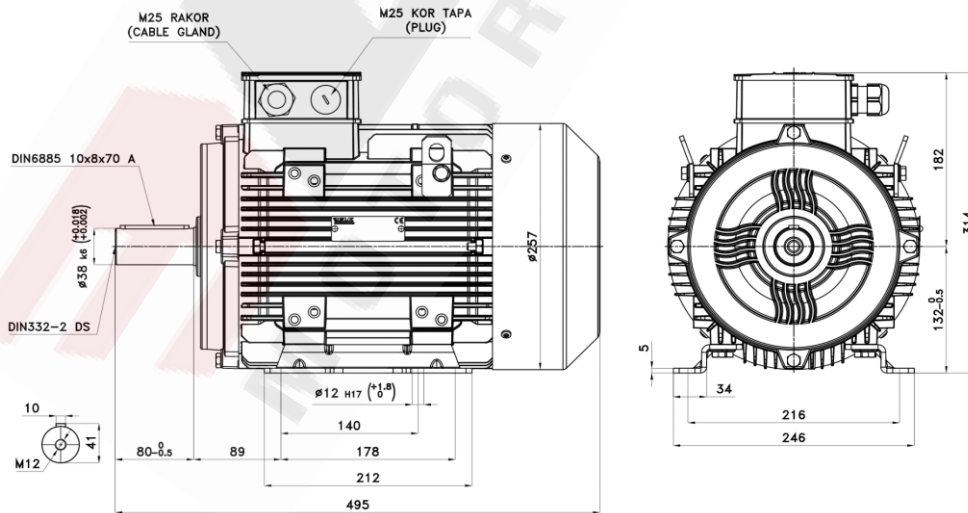
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	$\cos\phi$	CI
Δ	400	50	7.50	1465	14.8	90.4	91.0	90.5	0.81	IE3
Y	690	50	7.50	1465	8.55	90.4	91.0	90.5	0.81	IE3
Δ	460	60	7.50	1770	13.0	91.7	91.6	90.2	0.79	IE3
Δ	460	60	8.70	1760	14.9	89.5	90.0	89.4	0.82	IE2

MECHANICAL DATA

Moment of Inertia [kgm²] : 0.03418
Bearing [DS / NS] : 6208ZZ C3 / 6208ZZ 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 : 3EL132M4D-PD-B0-000

Date : 12/08/2025

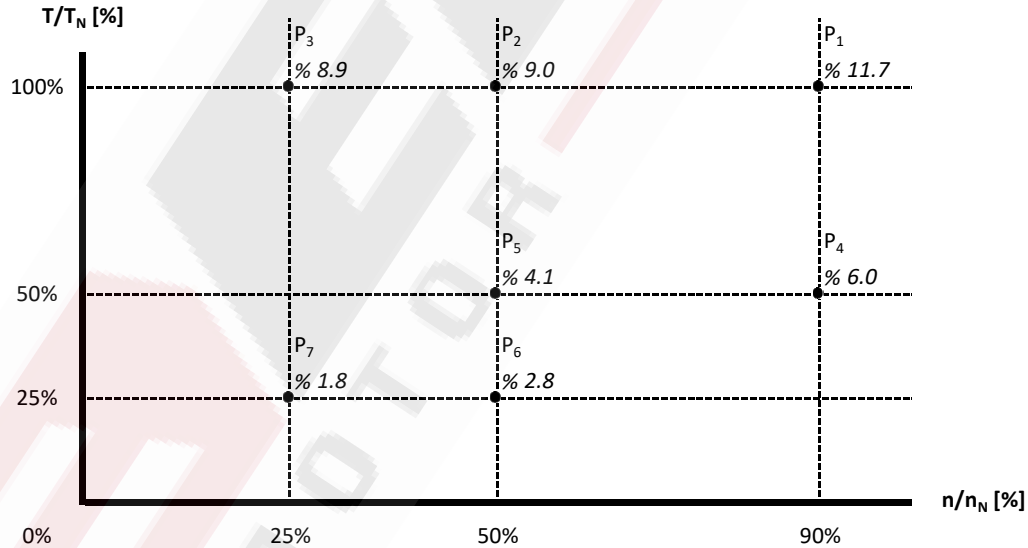
NAMEPLATE DATA

Power [kW]	: 7.50	Nominal Speed [rpm]	: 1465
Nominal Voltage [V]	: 400	Nominal Current [A]	: 14.8
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 48.9
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 90.4

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	11.7	88.6
P ₂	50	100	9.0	84.8
P ₃	25	100	8.9	73.7
P ₄	90	50	6.0	88.2
P ₅	50	50	4.1	86.0
P ₆	50	25	2.8	81.5
P ₇	25	25	1.8	77.9

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



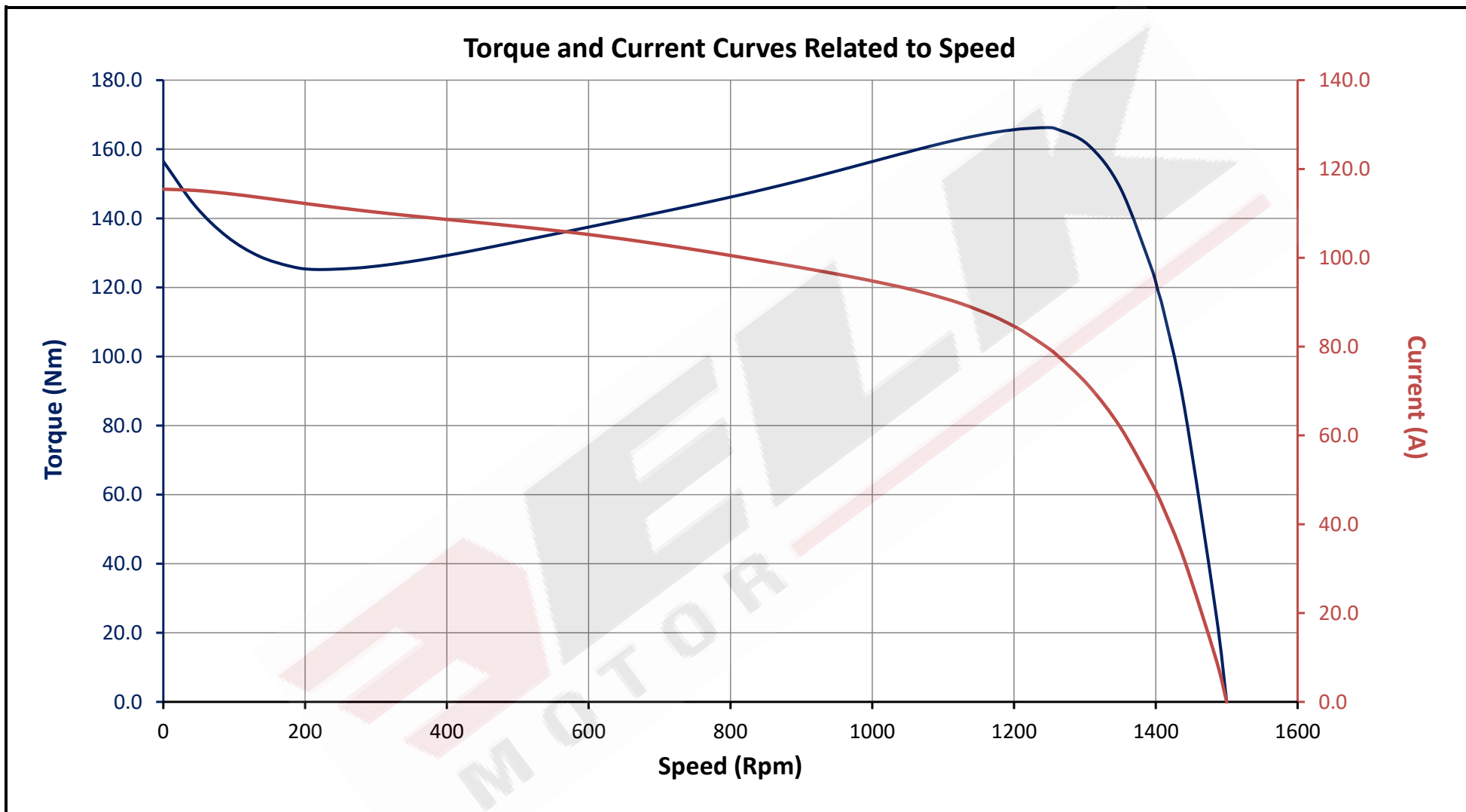
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Performance Curves Related to Rated Output

