

Type : 3EL200L6C-PD-BA-000**Date** : 28/10/2025

Power [kW]	: 18.5
Input Voltage [V]	: 400
Connection Type [Δ / Y]	: Δ
Frequency [Hz]	: 50
Pole Number	: 6
Nominal Speed [rpm]	: 977
Nominal Current [A]	: 36.4
Nominal Moment [Nm]	: 181
Nominal Efficiency [η]	: 91.7
Power Factor [$\cos\phi$]	: 0.80
Locked Rotor Current [I_a/I_n]	: 6.1
Locked Rotor Torque [M_a/M_n]	: 2.6
Breakdown Torque [M_k/M_n]	: 2.6
Motor Color	: RAL 7031
Ambient Temperature	: -15°C / +40°C

Efficiency Class	: IE3
Duty Cycle	: S1
Service Factor	: 1.20
Frame Size	: 200L
Weight [kg]	: 163
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	: PTC
Altitude Above Sea Level	: 1000m
Sound Pressure Level [dBA]	: 64

ELECTRICAL DATA

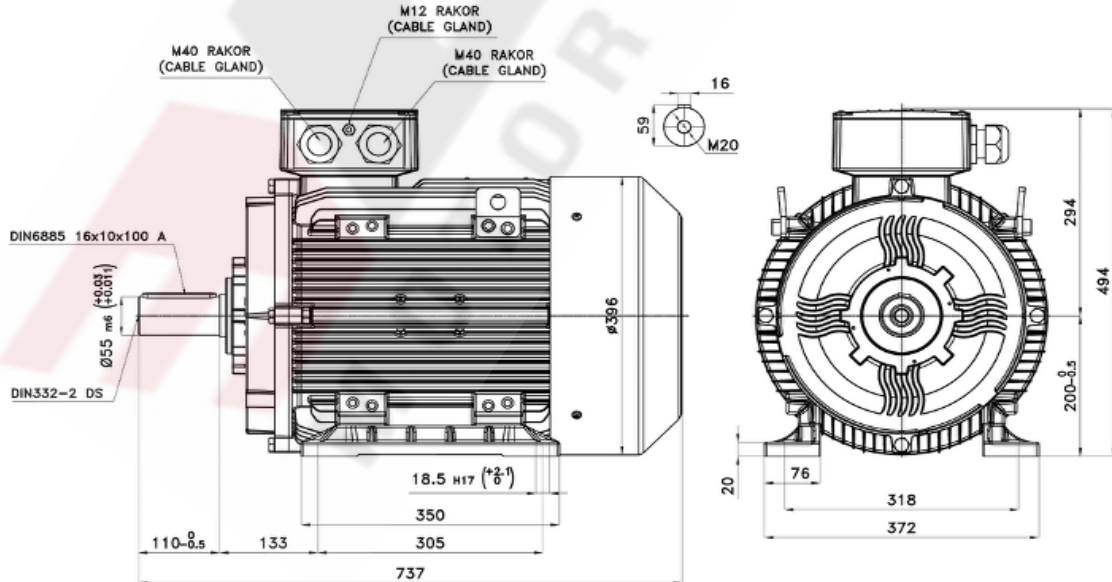
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	$\cos\phi$	Cl
Δ	400	50	18.5	977	36.4	91.7	91.8	91.8	0.80	IE3
Y	690	50	18.5	977	21.0	91.7	91.8	91.8	0.80	IE3

MECHANICAL DATA

Moment of Inertia [kgm ²]	: 0.36100
Bearing [DS / NS]	: 6312ZZ C3 / 6212ZZ 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	: M12x1.5+2xM40x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M6

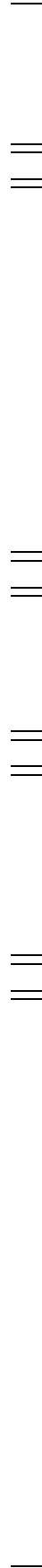
MECHANICAL DIMENSIONS

Manufactured and tested in accordance with IEC 60034

FR.AG.010 REV.NO: 04 REV.DATE: 01.01

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

Type : 3EL200L6C-PD-BA-000

Date : 28/10/2025

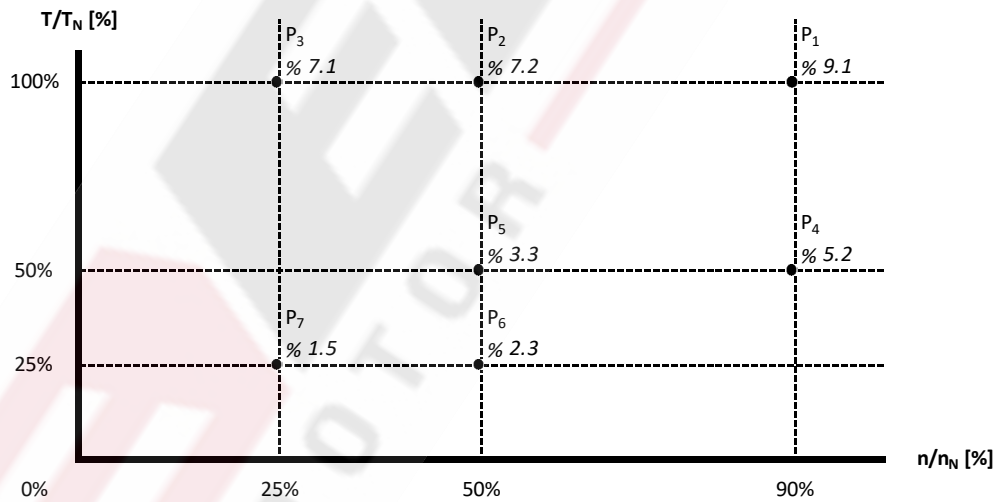
NAMEPLATE DATA

Power [kW]	: 18.5	Nominal Speed [rpm]	: 977
Nominal Voltage [V]	: 400	Nominal Current [A]	: 36.4
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 181
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 91.7

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	9.1	90.9
P ₂	50	100	7.2	87.4
P ₃	25	100	7.1	77.9
P ₄	90	50	5.2	89.7
P ₅	50	50	3.3	88.4
P ₆	50	25	2.3	84.7
P ₇	25	25	1.5	81.1

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



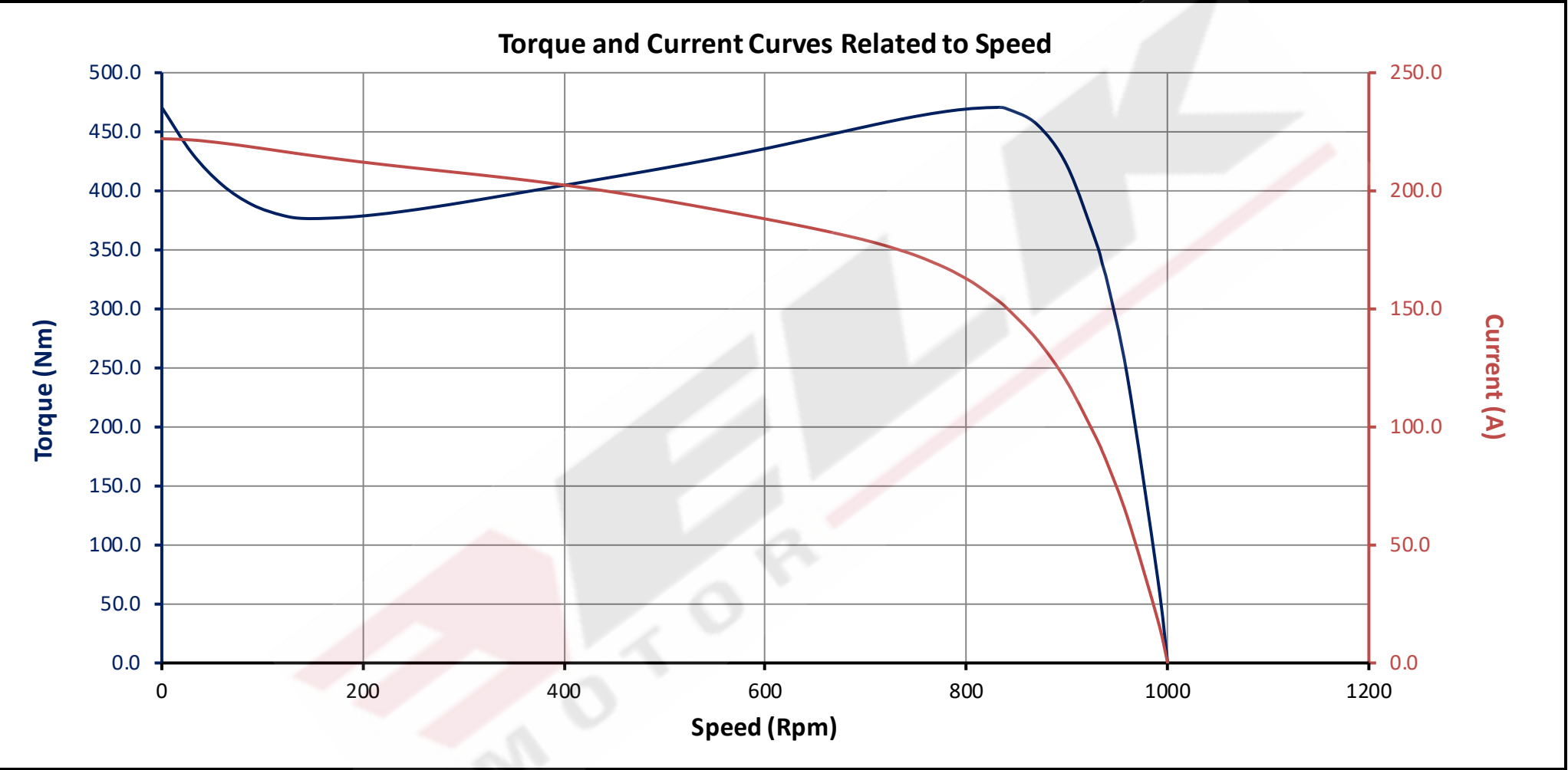
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Performance Curves Related to Rated Output

