

Type : 3EL090L2C-PD-A0-000**Date** : 12/08/2025

Power [kW] : 2.20
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 2
Nominal Speed [rpm] : 2900
Nominal Current [A] : 4.25
Nominal Moment [Nm] : 7.24
Nominal Efficiency [η] : 85.9
Power Factor [$\cos\phi$] : 0.87
Locked Rotor Current [I_a/I_n] : 7.2
Locked Rotor Torque [M_a/M_n] : 3.0
Breakdown Torque [M_k/M_n] : 3.8
Motor Color : RAL 7031
Ambient Temperature : -15°C / +40°C

Efficiency Class : IE3
Duty Cycle : S1
Service Factor : 1.20
Frame Size : 090L
Weight [kg] : 17.0
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] : 59

ELECTRICAL DATA

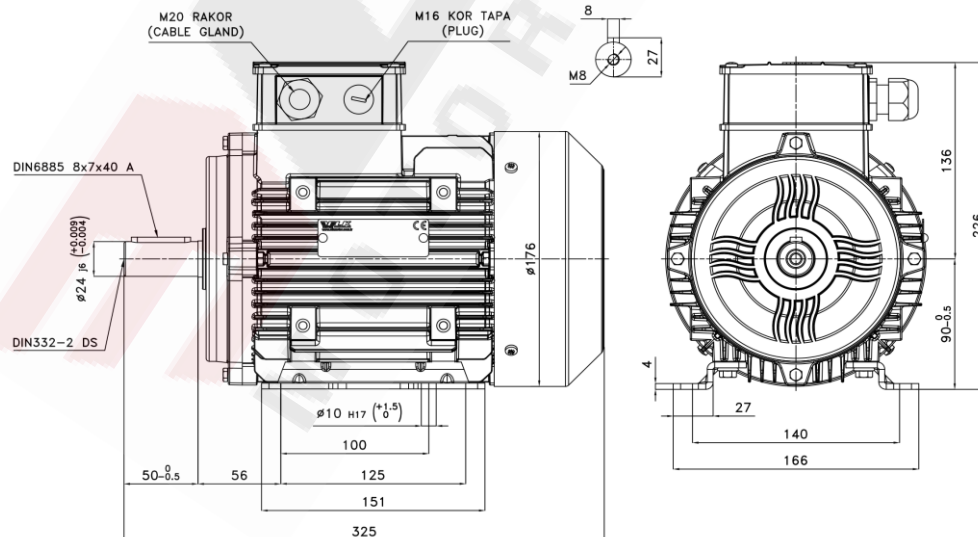
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	$\cos\phi$	CI
Δ	230	50	2.20	2900	7.36	85.9	86.8	86.1	0.87	IE3
Y	400	50	2.20	2900	4.25	85.9	86.8	86.1	0.87	IE3
Y	460	60	2.20	3500	3.67	86.5	86.7	86.0	0.87	IE3
Y	460	60	2.55	3490	4.15	86.8	87.0	86.3	0.89	IE3

MECHANICAL DATA

Moment of Inertia [kgm^2] : 0.00221
Bearing [DS / NS] : 6205ZZ C3 / 6205ZZ 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 : M20x1.5
Terminal Box Blind Cap : M16x1.5
Contact Screw Thread : M4

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 : 3EL090L2C-PD-A0-000

Date : 12/08/2025

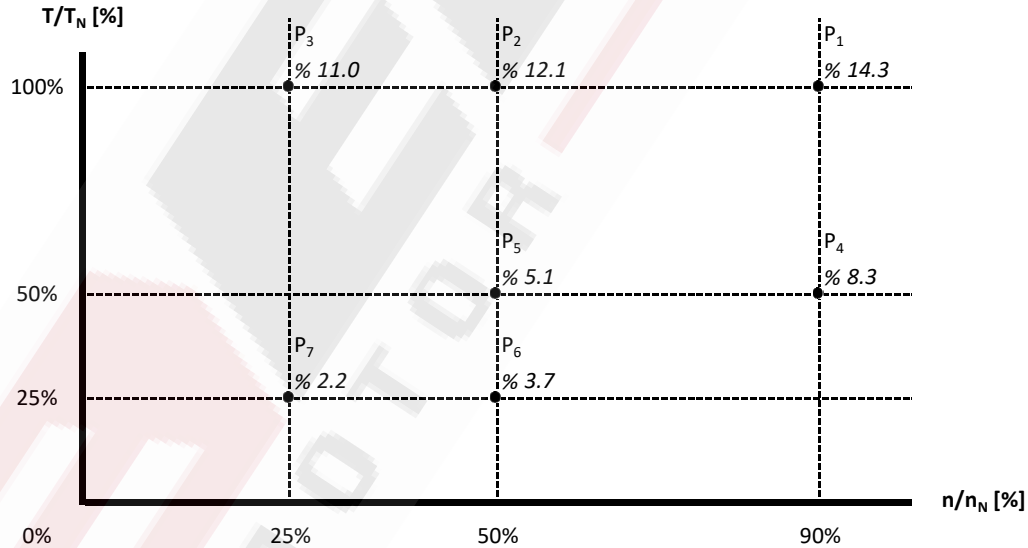
NAMEPLATE DATA

Power [kW]	: 2.20	Nominal Speed [rpm]	: 2900
Nominal Voltage [V]	: 400	Nominal Current [A]	: 4.25
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 7.24
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 85.9

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	14.3	86.3
P ₂	50	100	12.1	80.5
P ₃	25	100	11.0	69.5
P ₄	90	50	8.3	84.4
P ₅	50	50	5.1	83.1
P ₆	50	25	3.7	77.3
P ₇	25	25	2.2	73.9

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



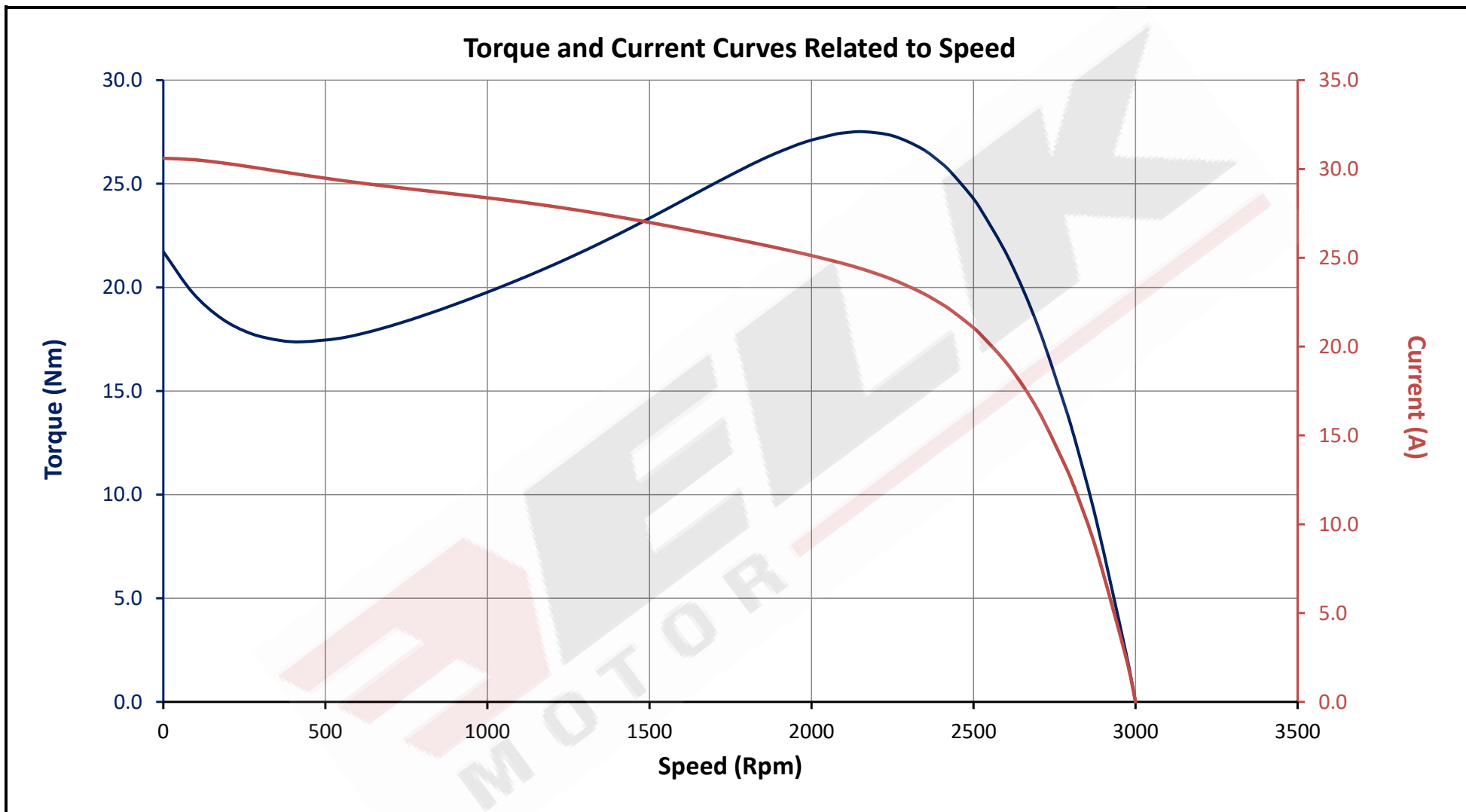
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Performance Curves Related to Rated Output

