

Type : 3EL090L6C-PD-A0-000**Date** : 04/11/2025

Power [kW]	: 1.10
Input Voltage [V]	: 400
Connection Type [Δ / Y]	: Y
Frequency [Hz]	: 50
Pole Number	: 6
Nominal Speed [rpm]	: 940
Nominal Current [A]	: 2.75
Nominal Moment [Nm]	: 11.2
Nominal Efficiency [η]	: 81.0
Power Factor [$\cos\phi$]	: 0.71
Locked Rotor Current [I_a/I_n]	: 5.0
Locked Rotor Torque [M_a/M_n]	: 2.2
Breakdown Torque [M_k/M_n]	: 2.7
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]	: 46

ELECTRICAL DATA

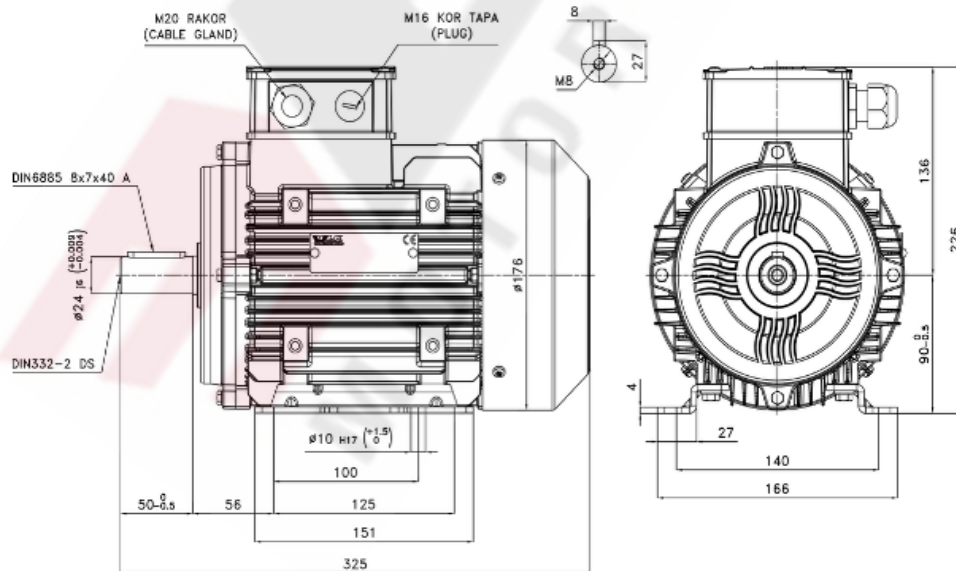
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	$\cos\phi$	Cl
Δ	230	50	1.10	940	4.76	81.0	80.8	79.4	0.71	IE3
Y	400	50	1.10	940	2.75	81.0	80.8	79.4	0.71	IE3

MECHANICAL DATA

Moment of Inertia [kgm ²]	: 0.00428
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

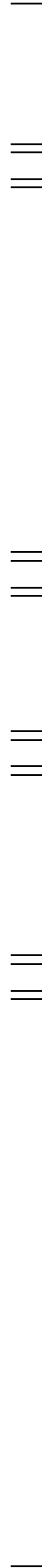
MECHANICAL DIMENSIONS

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.





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

Type : 3EL090L6C-PD-A0-000

Date : 04/11/2025

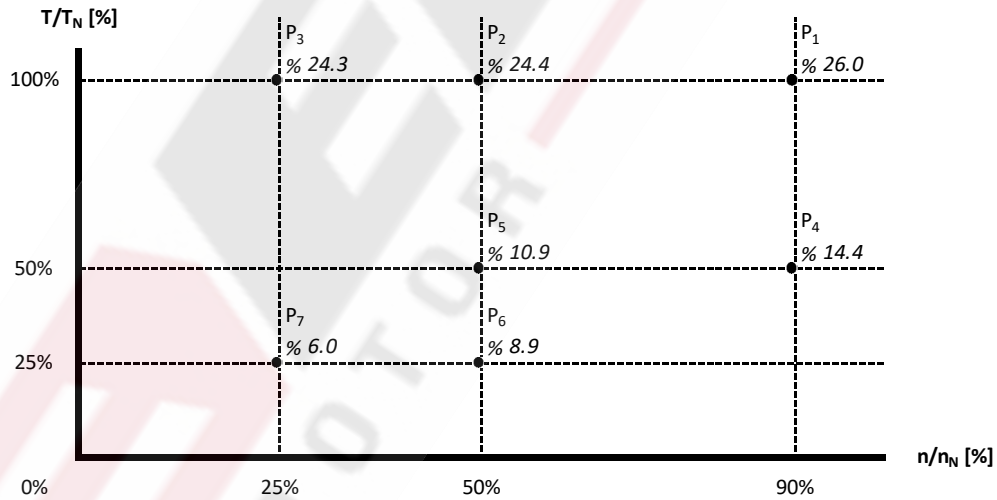
NAMEPLATE DATA

Power [kW]	: 1.10	Nominal Speed [rpm]	: 940
Nominal Voltage [V]	: 400	Nominal Current [A]	: 2.75
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 11.2
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 81.0

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	26.0	77.6
P ₂	50	100	24.4	67.2
P ₃	25	100	24.3	50.7
P ₄	90	50	14.4	75.7
P ₅	50	50	10.9	69.7
P ₆	50	25	8.9	58.4
P ₇	25	25	6.0	51.0

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



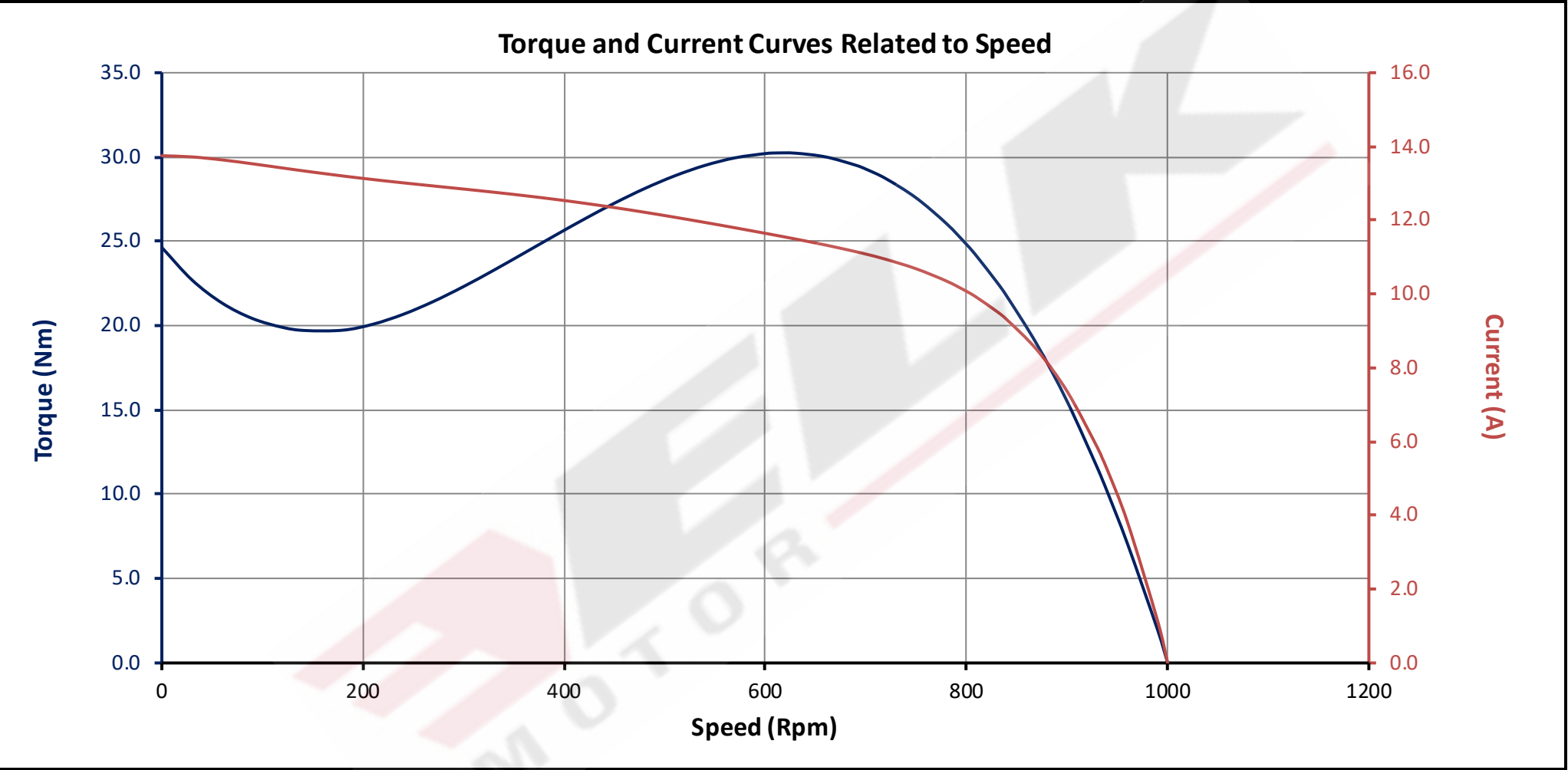
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Performance Curves Related to Rated Output

