

Type : 2EL071M2B-PD-A0-000**Date** : 12/08/2025

Power [kW] : 0.55
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 2
Nominal Speed [rpm] : 2790
Nominal Current [A] : 1.27
Nominal Moment [Nm] : 1.88
Nominal Efficiency [η] : 75.8
Power Factor [$\cos\phi$] : 0.82
Locked Rotor Current [I_a/I_n] : 5.0
Locked Rotor Torque [M_a/M_n] : 2.8
Breakdown Torque [M_k/M_n] : 2.9
Motor Color : RAL 7031
Ambient Temperature : -15°C / +40°C

Efficiency Class : IE2
Duty Cycle : S1
Service Factor : 1.15
Frame Size : 071M
Weight [kg] : 6.30
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] : 54

ELECTRICAL DATA

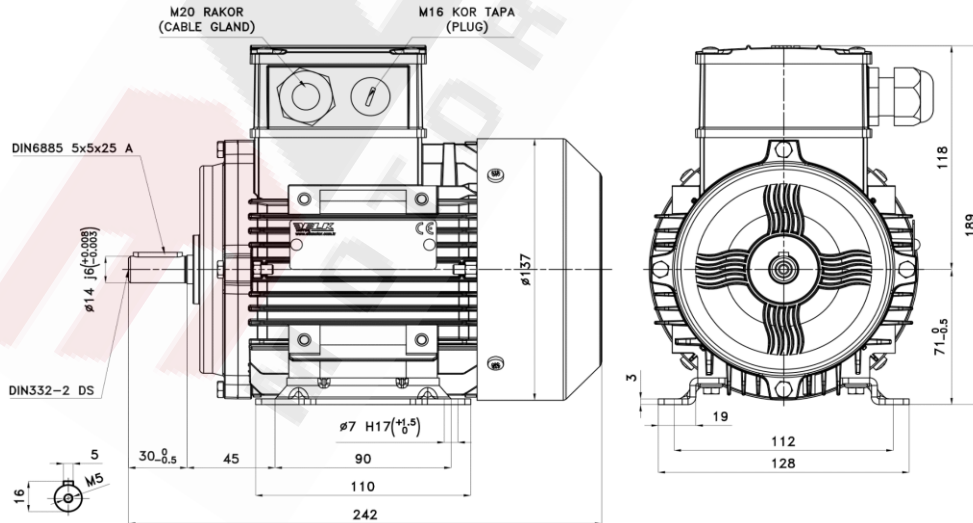
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	$\cos\phi$	CI
Δ	230	50	0.55	2790	2.20	75.8	77.0	76.0	0.82	IE2
Y	400	50	0.55	2790	1.27	75.8	77.0	76.0	0.82	IE2
Y	460	60	0.55	3420	1.13	77.3	78.1	75.3	0.79	IE2
Y	460	60	0.64	3400	1.26	77.5	78.3	75.5	0.82	IE2

MECHANICAL DATA

Moment of Inertia [kgm^2] : 0.00037
Bearing [DS / NS] : 6202ZZ C3 / 6202ZZ 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 : 2EL071M2B-PD-A0-000

Date : 12/08/2025

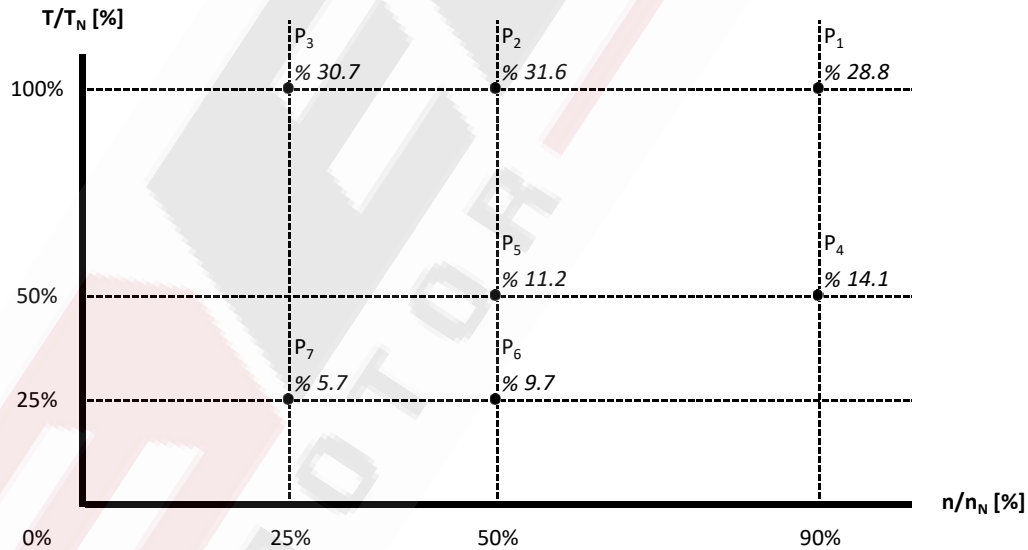
NAMEPLATE DATA

Power [kW]	: 0.55	Nominal Speed [rpm]	: 2790
Nominal Voltage [V]	: 400	Nominal Current [A]	: 1.27
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 1.88
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η%]	: 75.8

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	28.8	75.7
P ₂	50	100	31.6	61.3
P ₃	25	100	30.7	44.9
P ₄	90	50	14.1	76.2
P ₅	50	50	11.2	69.1
P ₆	50	25	9.7	56.4
P ₇	25	25	5.7	52.1

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



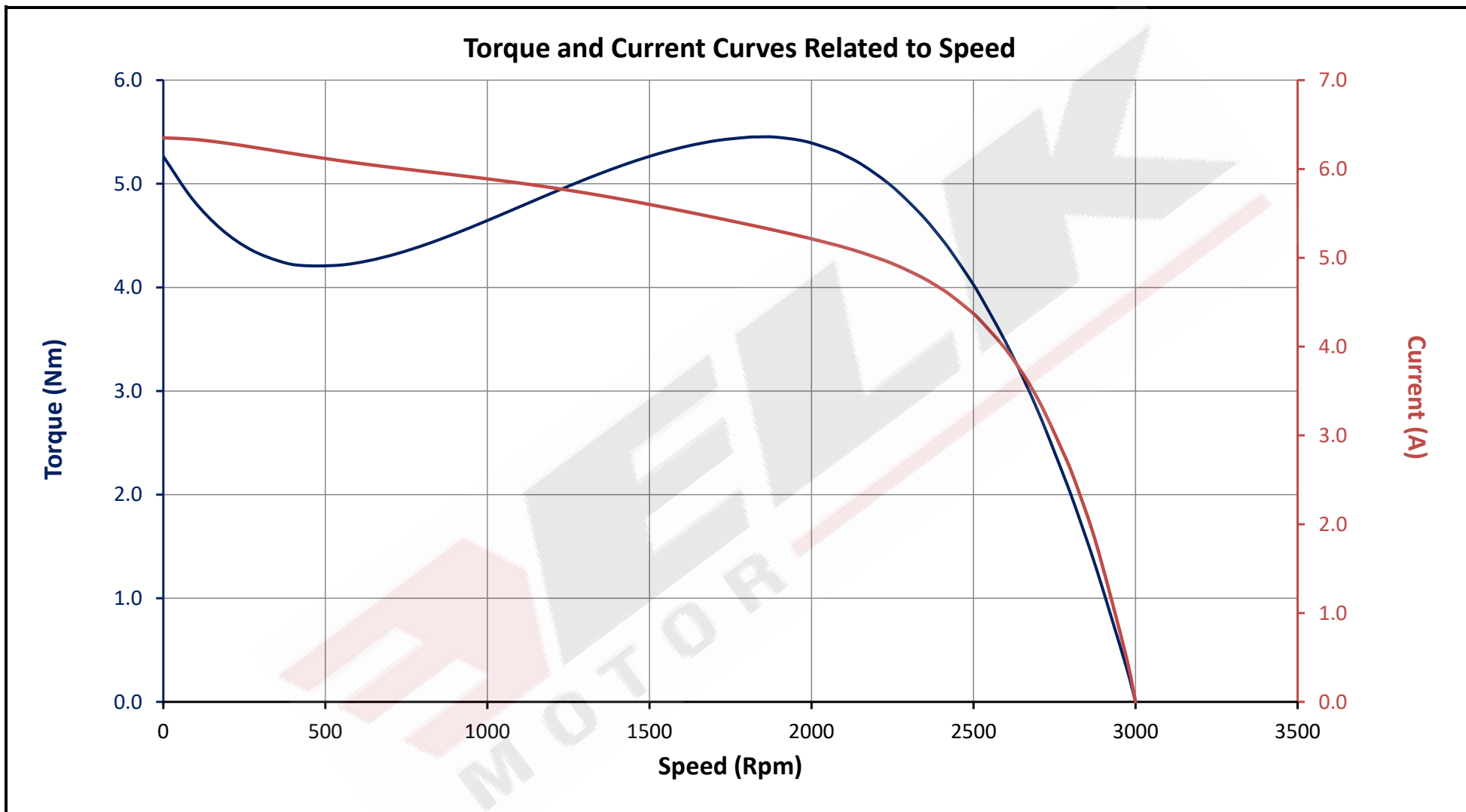
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Performance Curves Related to Rated Output

