

Type : 2EL071M6C-PD-A0-000**Date** : 12/08/2025

Power [kW] : 0.25
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 6
Nominal Speed [rpm] : 920
Nominal Current [A] : 0.78
Nominal Moment [Nm] : 2.59
Nominal Efficiency [η] : 66.5
Power Factor [$\cos\phi$] : 0.69
Locked Rotor Current [I_a/I_n] : 3.3
Locked Rotor Torque [M_a/M_n] : 1.9
Breakdown Torque [M_k/M_n] : 2.3
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] : 6.60
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] : 42

ELECTRICAL DATA

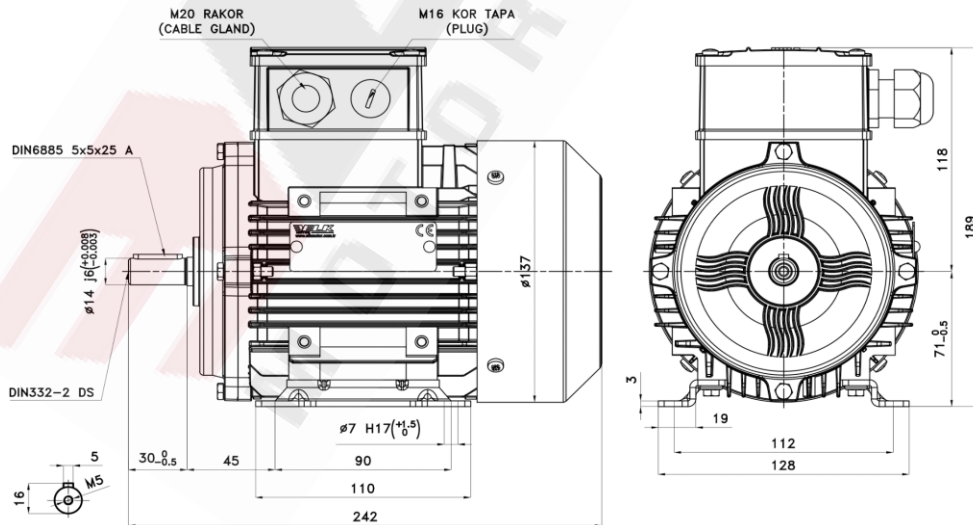
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	$\cos\phi$	CI
Δ	230	50	0.25	920	1.35	66.5	66.0	61.0	0.69	IE2
Y	400	50	0.25	920	0.78	66.5	66.0	61.0	0.69	IE2
Y	460	60	0.25	1125	0.73	69.0	68.8	65.0	0.62	IE2
Y	460	60	0.29	1120	0.78	69.3	69.0	65.2	0.67	IE2

MECHANICAL DATA

Moment of Inertia [kgm^2] : 0.00096
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



ELK MOTOR SAN. ve TİC. A.Ş.
www.elkmotor.com.tr
+90 (282) 726 92 94

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

Type : 2EL071M6C-PD-A0-000

Date : 12/08/2025

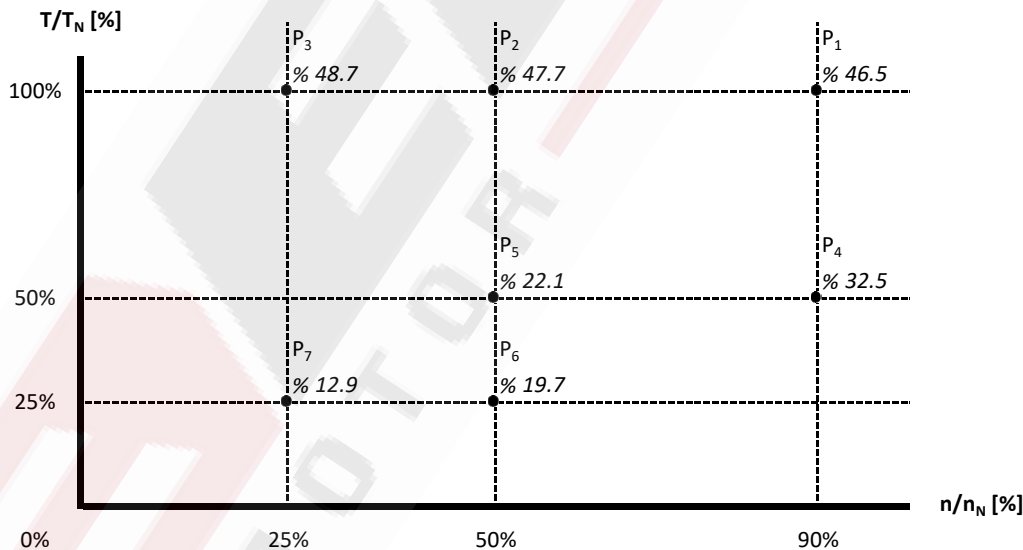
NAMEPLATE DATA

Power [kW]	: 0.25	Nominal Speed [rpm]	: 920
Nominal Voltage [V]	: 400	Nominal Current [A]	: 0.78
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 2.59
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 66.5

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	46.5	65.9
P ₂	50	100	47.7	51.2
P ₃	25	100	48.7	34.1
P ₄	90	50	32.5	58.2
P ₅	50	50	22.1	53.3
P ₆	50	25	19.7	38.7
P ₇	25	25	12.9	33.2

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



Manufactured and tested in accordance with IEC 60034

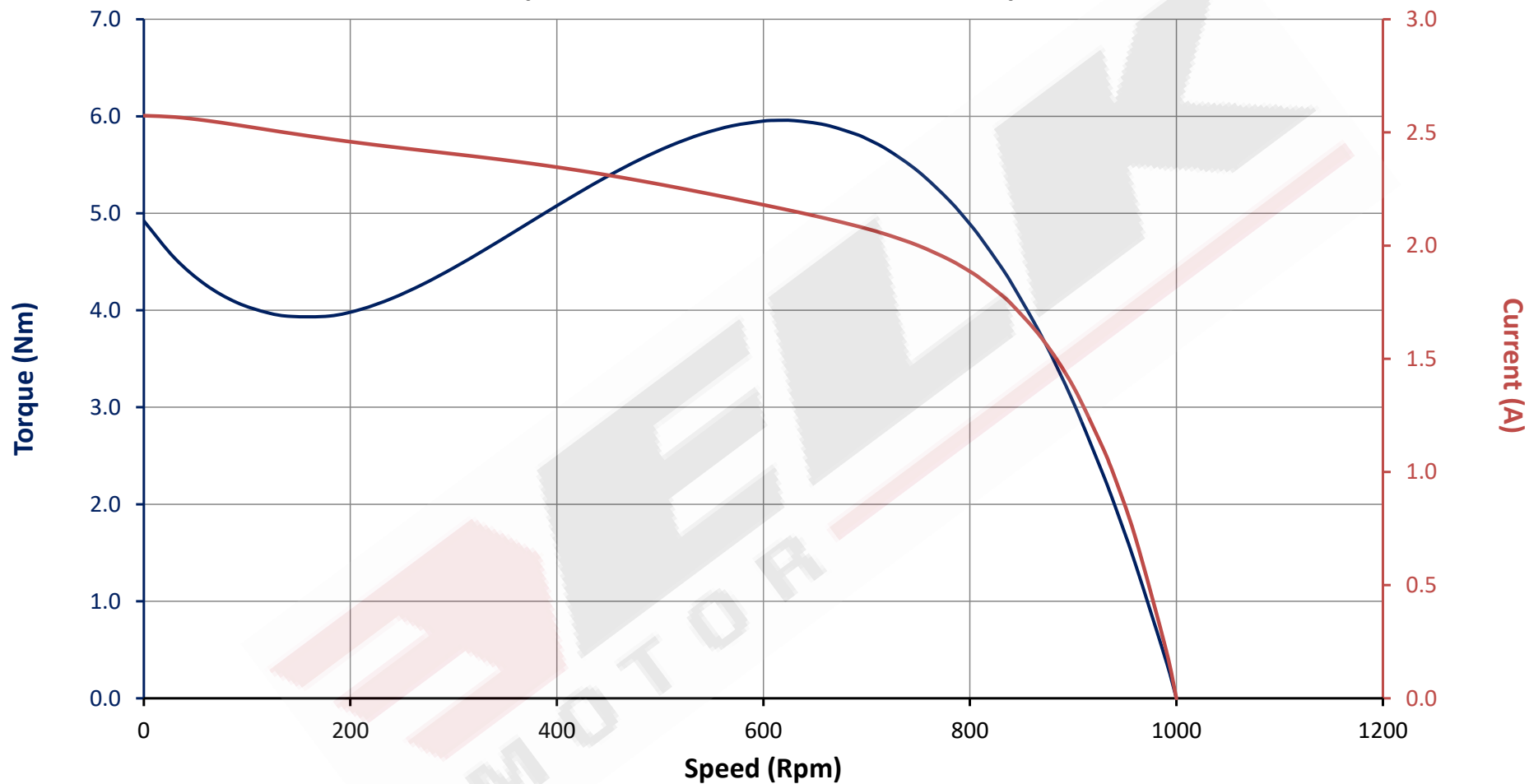
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Motor Code : 2EL071M6C-PD-A0-000

Torque and Current Curves Related to Speed



Motor Code : 2EL071M6C-PD-A0-000

Performance Curves Related to Rated Output

