

Type : 3EL080M4D-PD-A0-000**Date** : 04/11/2025

Power [kW] : 0.75
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 4
Nominal Speed [rpm] : 1450
Nominal Current [A] : 1.77
Nominal Moment [Nm] : 4.93
Nominal Efficiency [η] : 82.5
Power Factor [cosφ] : 0.74
Locked Rotor Current [I_a/I_n] : 6.2
Locked Rotor Torque [M_a/M_n] : 2.5
Breakdown Torque [M_k/M_n] : 3.1
Motor Color : RAL 7031
Ambient Temperature : -15°C / +40°C

Efficiency Class : IE3
Duty Cycle : S1
Service Factor : 1.20
Frame Size : 080M
Weight [kg] : 11.6
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] : 50

ELECTRICAL DATA

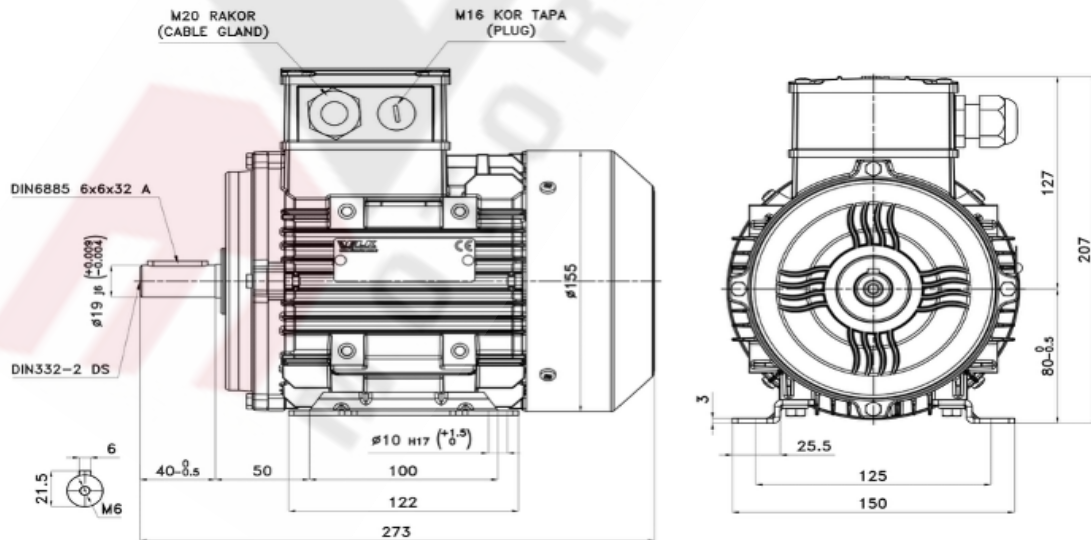
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	cosφ	Cl
Δ	230	50	0.75	1450	3.07	82.5	82.3	80.0	0.74	IE3
Y	400	50	0.75	1450	1.77	82.5	82.3	80.0	0.74	IE3
Y	460	60	0.75	1755	1.57	83.5	83.1	80.9	0.72	IE3
Y	460	60	0.87	1750	1.74	83.5	83.2	81.0	0.75	IE3

MECHANICAL DATA

Moment of Inertia [kgm²] : 0.00227
Bearing [DS / NS] : 6204ZZ C3 / 6204ZZ 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

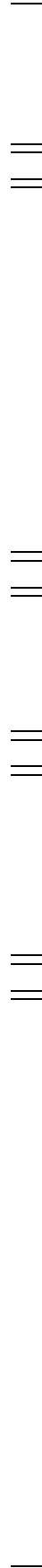
MECHANICAL DIMENSIONS

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.





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 : 3EL080M4D-PD-A0-000

Date : 04/11/2025

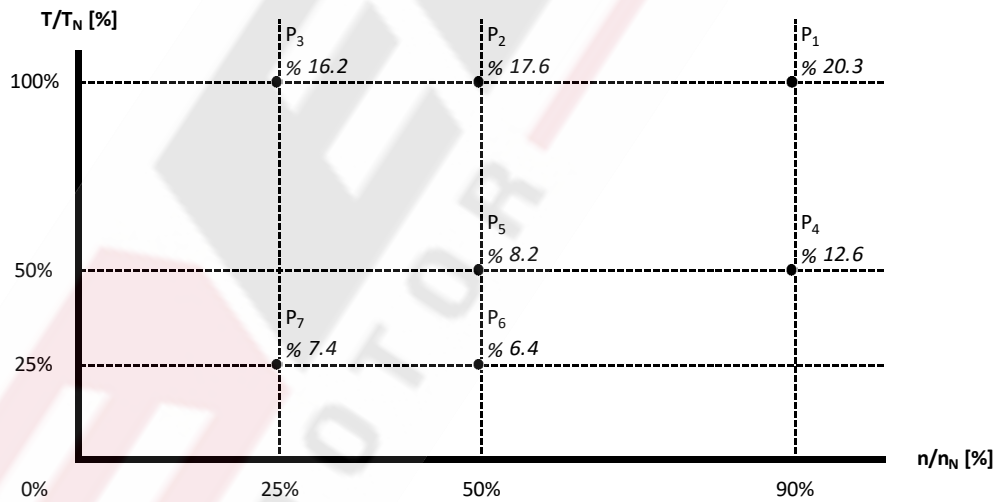
NAMEPLATE DATA

Power [kW]	: 0.75	Nominal Speed [rpm]	: 1450
Nominal Voltage [V]	: 400	Nominal Current [A]	: 1.77
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 4.93
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 82.5

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	20.3	81.6
P ₂	50	100	17.6	73.9
P ₃	25	100	16.2	60.7
P ₄	90	50	12.6	78.2
P ₅	50	50	8.2	75.4
P ₆	50	25	6.4	66.2
P ₇	25	25	7.4	45.9

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



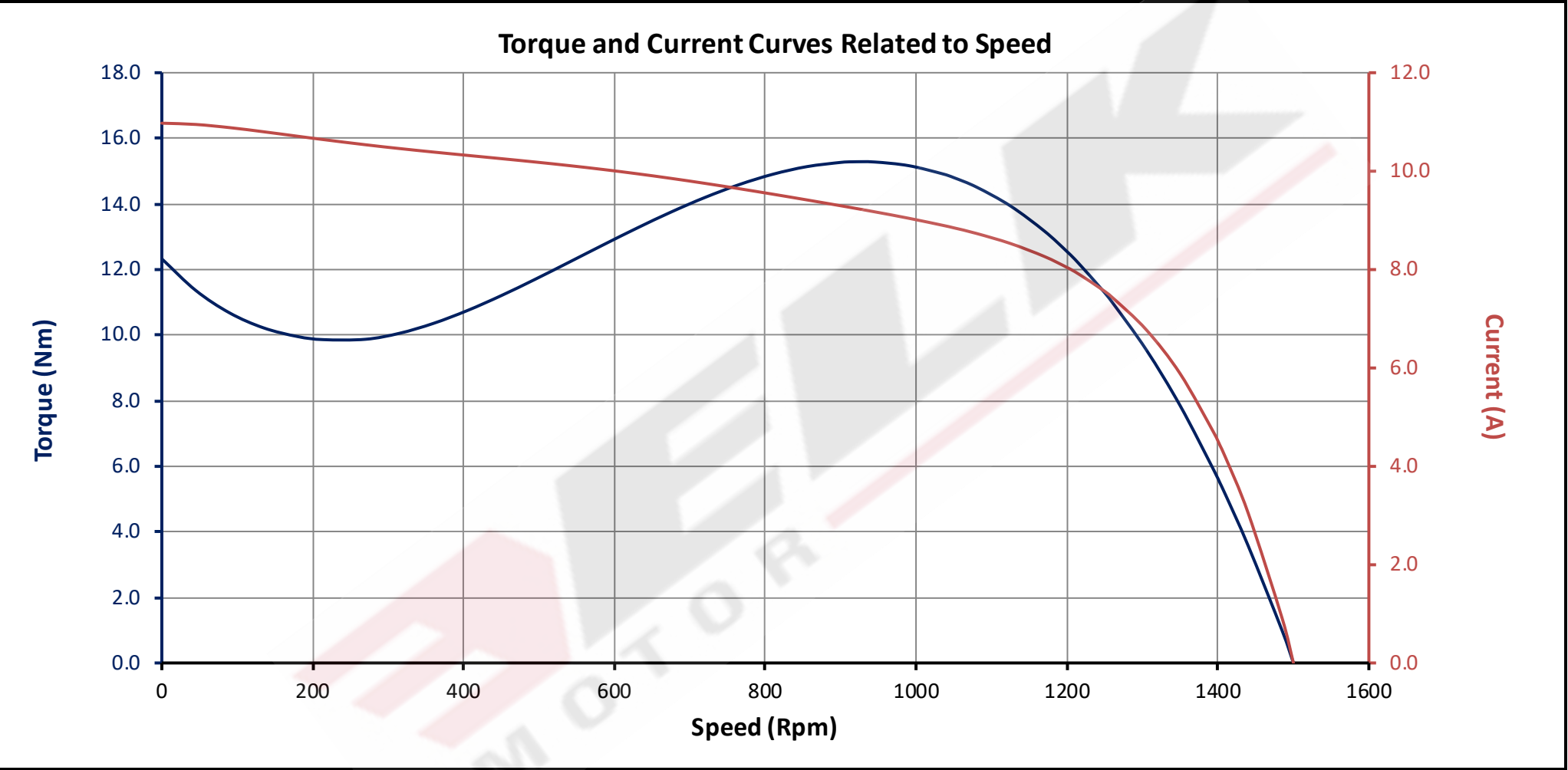
Manufactured and tested in accordance with IEC 60034

FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

*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.

Motor Code : 3EL080M4D-PD-A0-000



Motor Code : 3EL080M4D-PD-A0-000

Performance Curves Related to Rated Output

