

Type : 2EL063M2B-PD-A0-000

Date : 05/12/2024

Power [kW] : 0.25
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 2
Nominal Speed [rpm] : 2800
Nominal Current [A] : 0.67
Nominal Moment [Nm] : 0.85
Nominal Efficiency [η] : 69.0
Power Factor [cosφ] : 0.78
Locked Rotor Current [Ia/In] : 4.5
Locked Rotor Torque [Ma/Mn] : 2.9
Breakdown Torque [Mk/Mn] : 3.0
Motor Color : RAL 7031
Ambient Temperature : -15°C / +40°C

Efficiency Class : IE2
Duty Cycle : S1
Service Factor : 1.15
Frame Size : 063M
Weight [kg] : 4.20
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] : 51

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cosφ	CI
Δ	230	50	0.25	2800	1.16	69.0	68.0	63.5	0.78	IE2
Y	400	50	0.25	2800	0.67	69.0	68.0	63.5	0.78	IE2
Y	460	60	0.25	3415	0.60	70.7	69.7	65.4	0.74	IE2
Y	460	60	0.29	3395	0.66	71.0	70.0	65.5	0.78	IE2

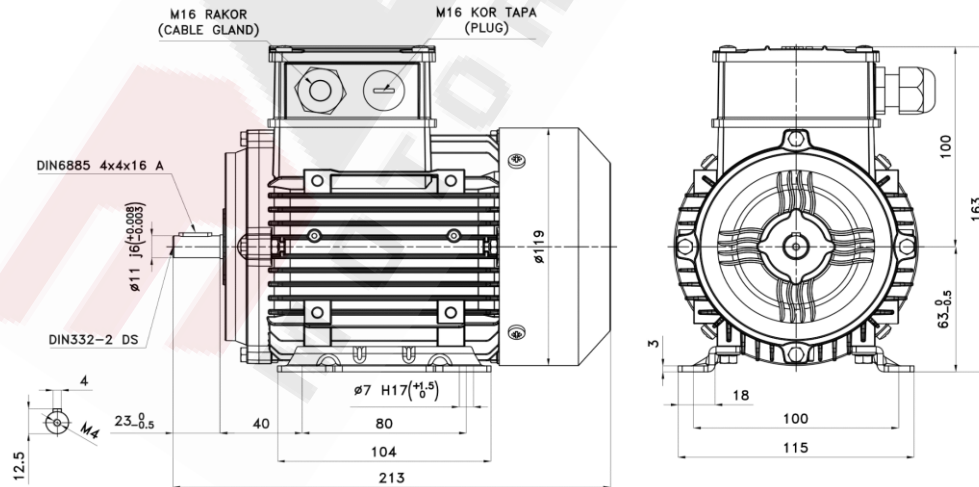
MECHANICAL DATA

Moment of Inertia [kgm²] : 0.00015
Bearing [DS / NS] : 6201ZZ C3 / 6201ZZ 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 : M16x1.5
Terminal Box Blind Cap : M16x1.5
Contact Screw Thread : M4

MECHANICAL DIMENSIONS



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.



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

Type : 2EL063M2B-PD-A0-000

Date : 05/12/2024

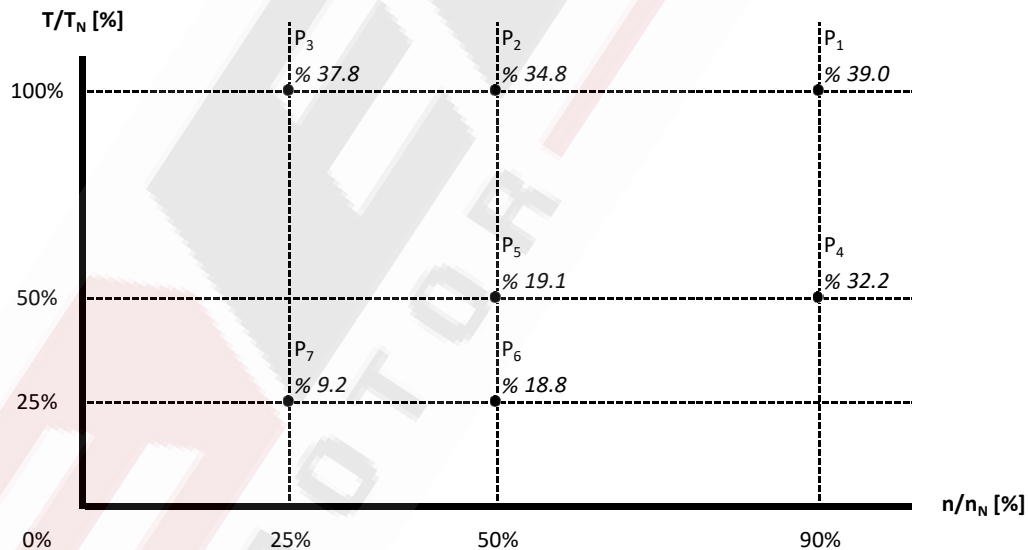
NAMEPLATE DATA

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Nominal Voltage [V]	: 400	Nominal Current [A]	: 0.67
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 0.85
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 69.0

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	39.0	69.7
P ₂	50	100	34.8	59.0
P ₃	25	100	37.8	40.0
P ₄	90	50	32.2	58.4
P ₅	50	50	19.1	56.9
P ₆	50	25	18.8	39.8
P ₇	25	25	9.2	41.1

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



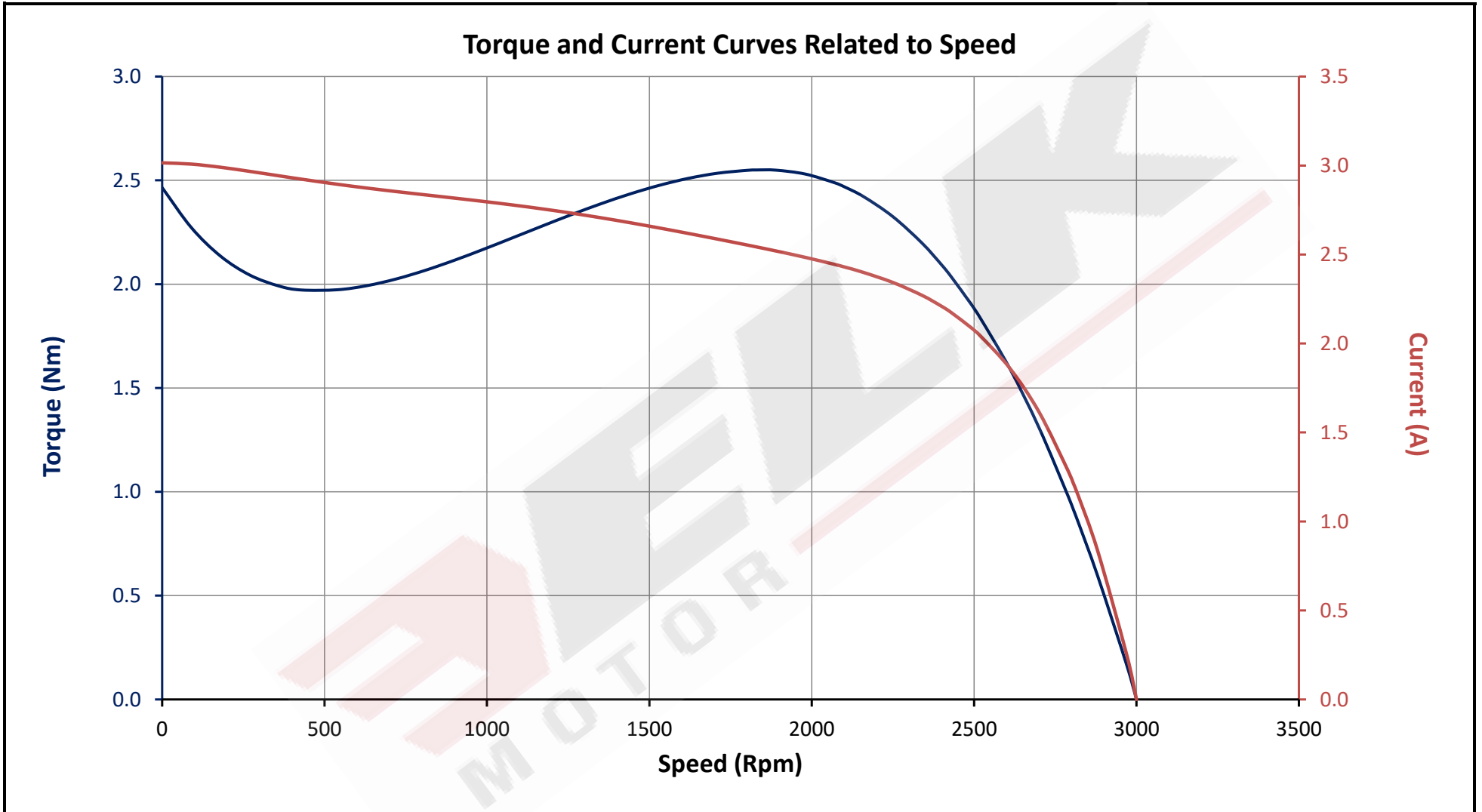
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Performance Curves Related to Rated Output

