

Type : 2EL063M2A-FA-A0-000

Date : 01.01.2023

Power [kW] : 0.18
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 2
Nominal Speed [rpm] : 2800
Nominal Current [A] : 0.50
Nominal Moment [Nm] : 0.61
Nominal Efficiency [η] : 67.5
Power Factor [$\cos\phi$] : 0.77
Locked Rotor Current [I_a/I_n] : 4.5
Locked Rotor Torque [M_a/M_n] : 2.9
Breakdown Torque [M_k/M_n] : 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] : 3.80
Insulation Class : F [155°C]
Temperature Rise : B [80°C]
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]	$\cos\phi$	Cl
Δ	230	50	0.18	2800	0.87	67.5	66.0	62.0	0.77	IE2
Y	400	50	0.18	2800	0.50	67.5	66.0	62.0	0.77	IE2
Y	460	60	0.18	3410	0.44	69.0	67.5	63.5	0.74	IE2
Y	460	60	0.21	3395	0.49	69.5	68.0	64.0	0.77	IE2

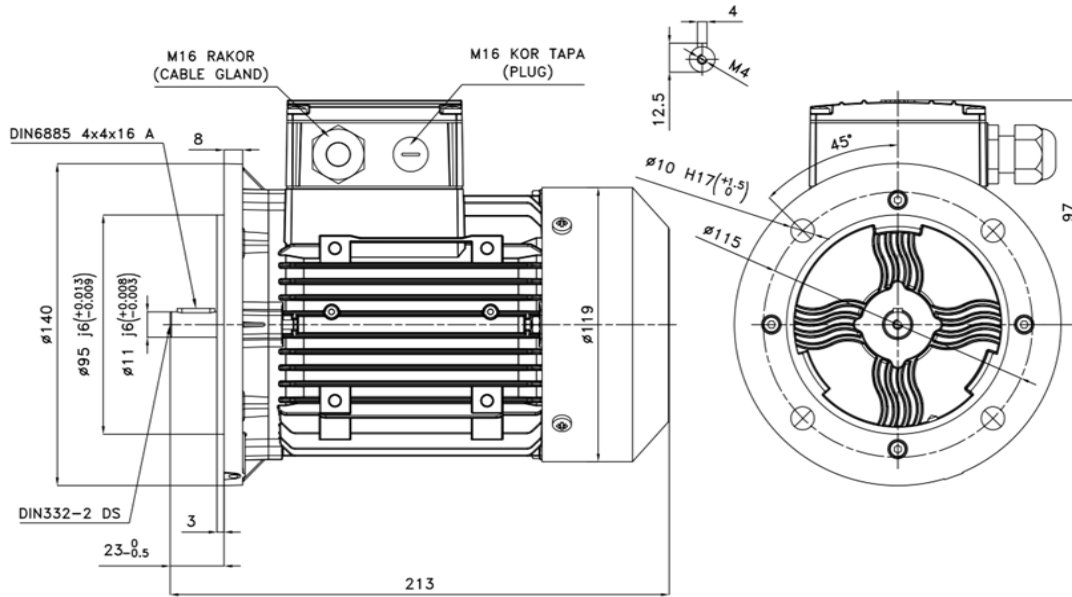
MECHANICAL DATA

Moment of Inertia [kgm²] : 0.00012
Bearing [DS / NS] : 6201ZZ / 6201ZZ
Frame Material : Aluminum
Flange Type / Material : B5 / 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

*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 : 2EL063M2A-FA-A0-000

Date : 01.01.2023

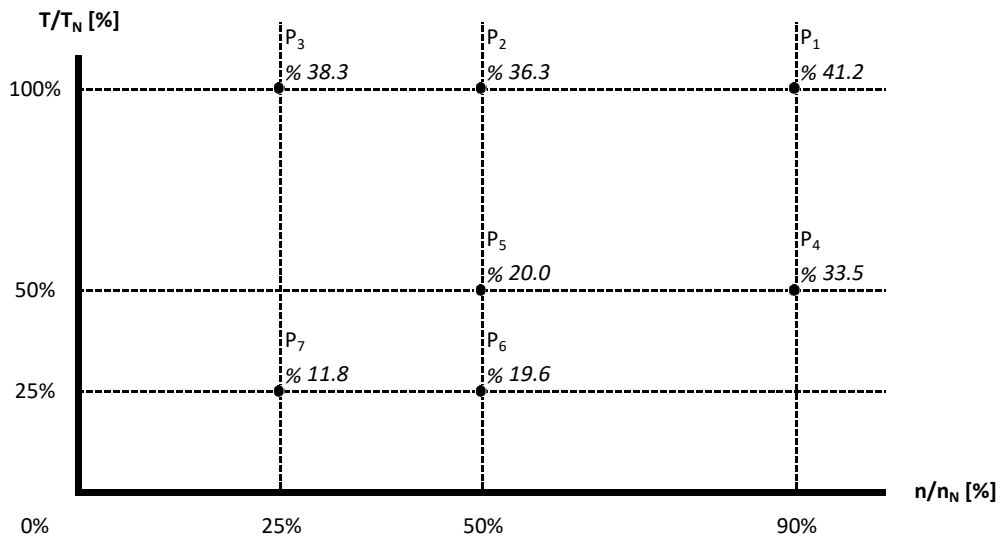
NAMEPLATE DATA

Power [kW]	: 0.18	Nominal Speed [rpm]	: 2800
Nominal Voltage [V]	: 400	Nominal Current [A]	: 0.50
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 0.61
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 67.5

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	41.2	68.6
P ₂	50	100	36.3	57.9
P ₃	25	100	38.3	39.5
P ₄	90	50	33.5	57.3
P ₅	50	50	20.0	55.5
P ₆	50	25	19.6	39.5
P ₇	25	25	11.8	34.2

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



Manufactured and tested in accordance with IEC 60034

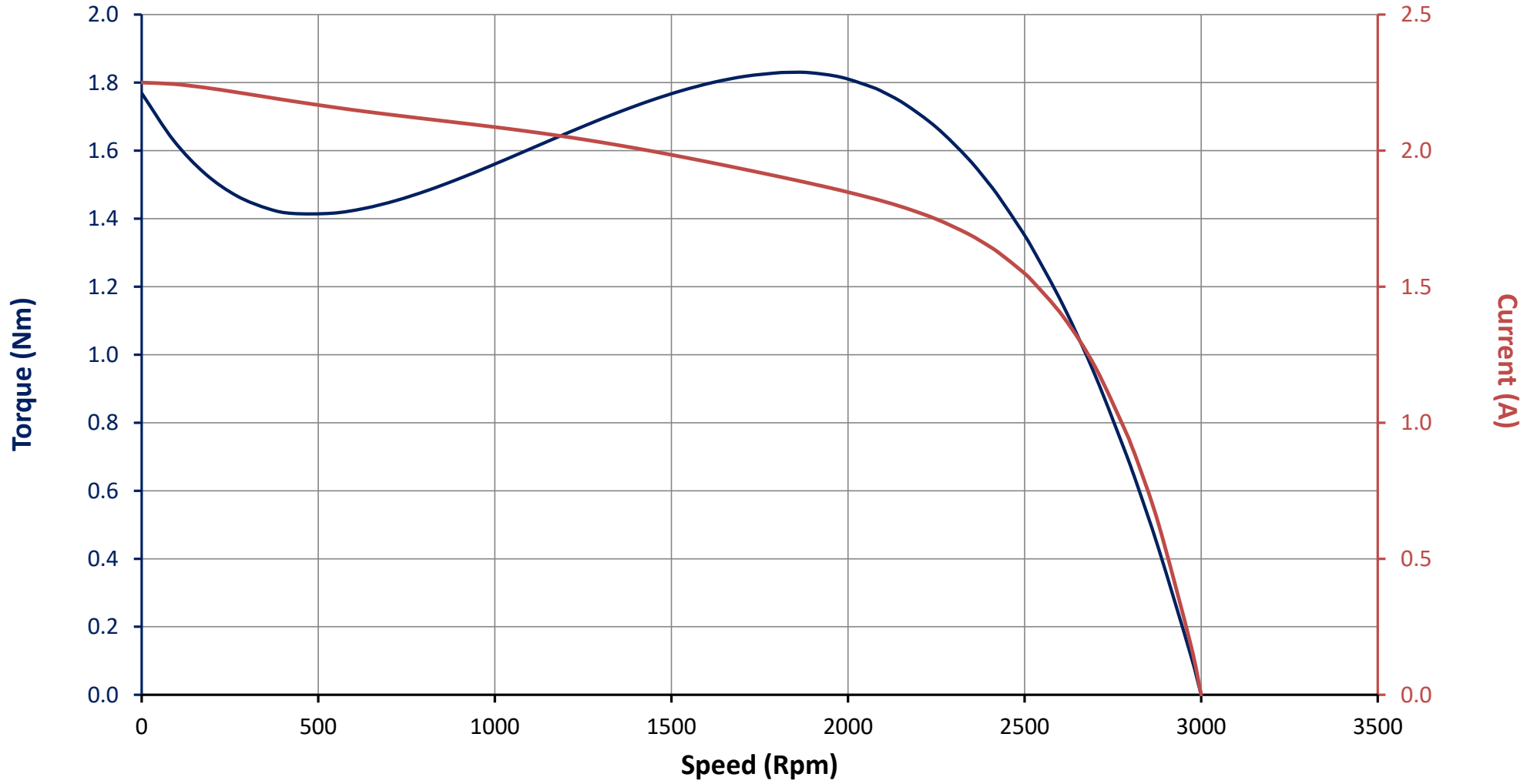
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Motor Code : 2EL063M2A-FA-A0-000

Torque and Current Curves Related to Speed



Motor Code : 2EL063M2A-FA-A0-000

Performance Curves Related to Rated Output

