ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE2

Type : 2EL063M2B-FC-A0-000 **Date** : 01.06.2024

Power [kW]	: 0.25	Efficiency Class	: IE2
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Y	Service Factor	: 1.15
Frequency [Hz]	: 50	Frame Size	: 063M
Pole Number	: 2	Weight [kg]	: 4.20
Nominal Speed [rpm]	: 2800	Insulation Class	: F [155°C]
Nominal Current [A]	: 0.67	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 0.85	Protection Class	: IP55
Nominal Efficiency [η]	: 69.0	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.78	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 4.5	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.9	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 3.0	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	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	Cl
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

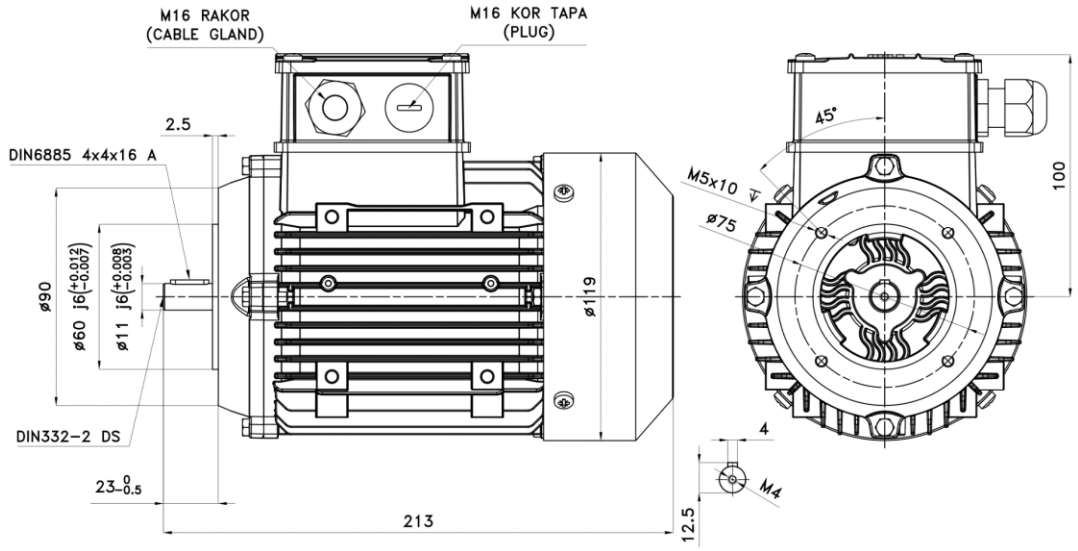
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00015
Bearing [DS / NS]	: 6201ZZ C3 / 6201ZZ C3
Frame Material	: Aluminum
Flange Type / Material	: B14 / 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

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TECHNICAL DATASHEET ACCORDING TO COMMISSION REGULATION (EU) 2019/1781

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : 2EL063M2B-FC-A0-000 **Date** : 01.06.2024

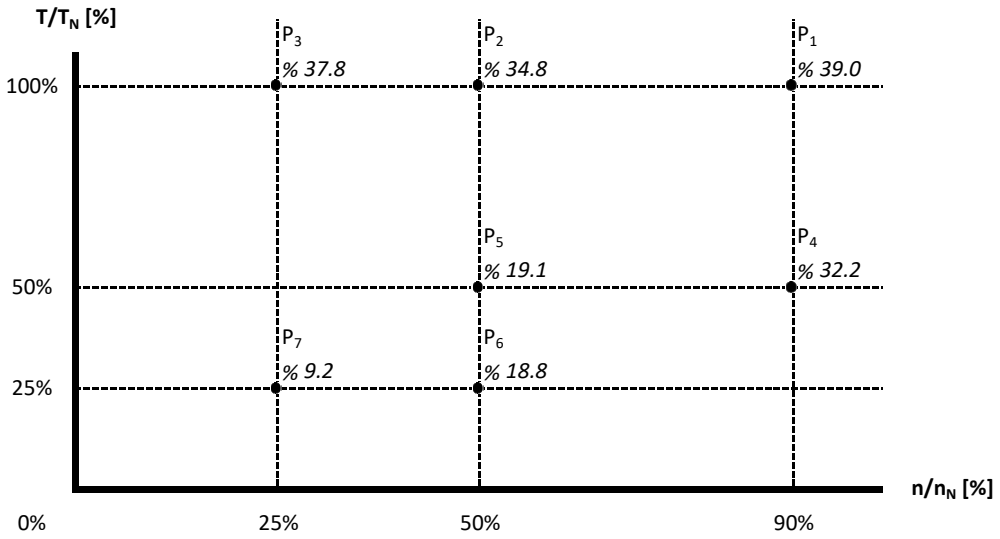
NAMEPLATE DATA

Power [kW]	: 0.25	Nominal Speed [rpm]	: 2800
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

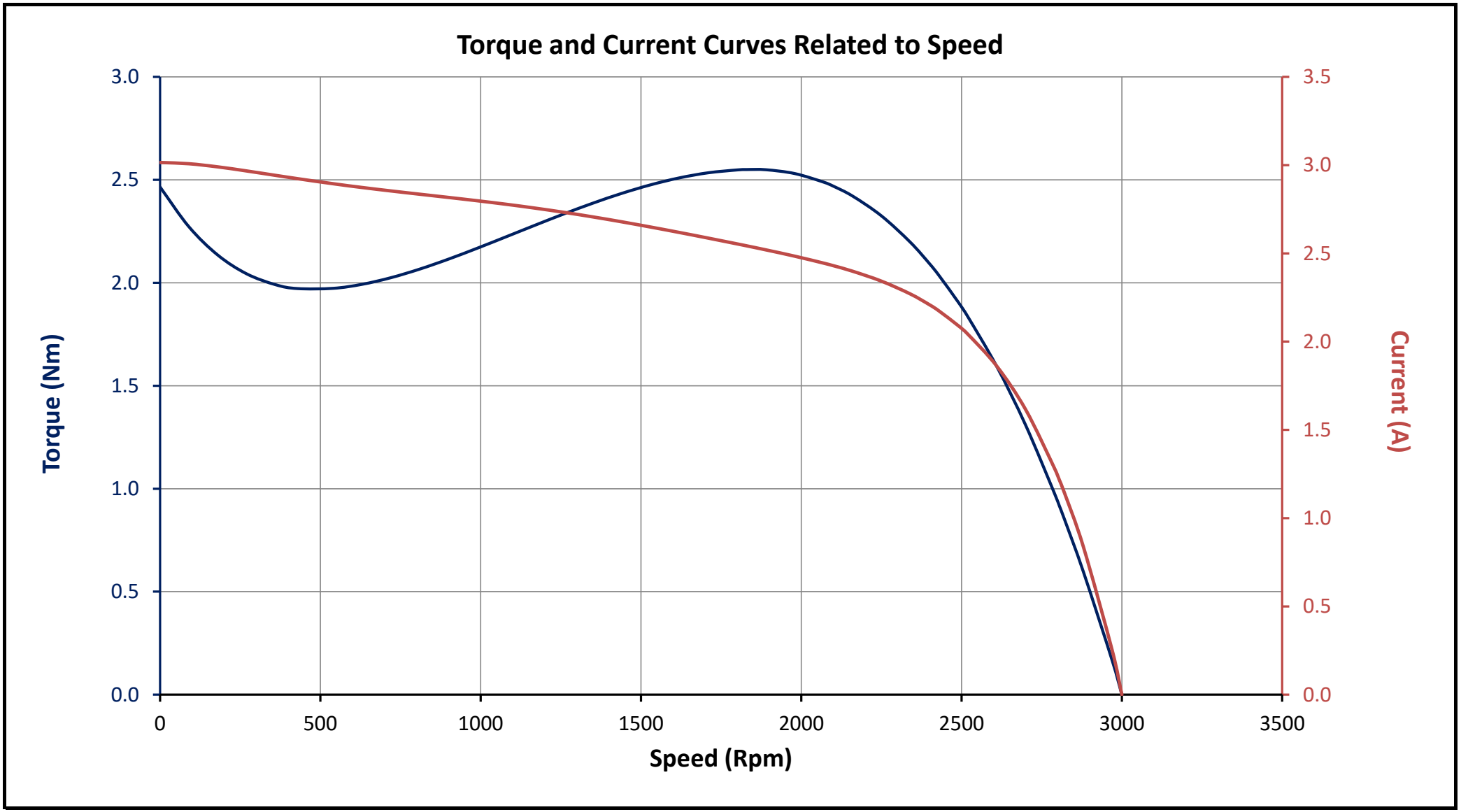
MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



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