ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE2

Type : 2EL071M2A-FC-A0-000 **Date** : 01.06.2024

Power [kW]	: 0.37	Efficiency Class	: IE2
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Y	Service Factor	: 1.15
Frequency [Hz]	: 50	Frame Size	: 071M
Pole Number	: 2	Weight [kg]	: 5.50
Nominal Speed [rpm]	: 2790	Insulation Class	: F [155°C]
Nominal Current [A]	: 0.90	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 1.26	Protection Class	: IP55
Nominal Efficiency [η]	: 74.2	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.80	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 5.0	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.5	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 2.8	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 54

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	0.37	2790	1.56	74.2	74.5	72.5	0.80	IE2
Y	400	50	0.37	2790	0.90	74.2	74.5	72.5	0.80	IE2
Y	460	60	0.37	3420	0.81	75.4	75.8	73.4	0.76	IE2
Y	460	60	0.43	3400	0.89	75.7	76.0	73.7	0.80	IE2

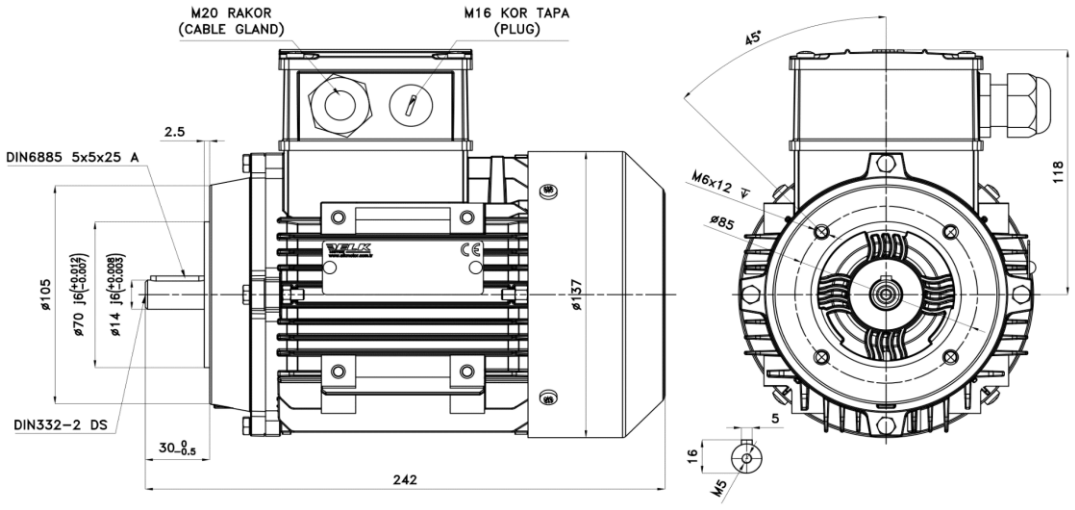
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00030
Bearing [DS / NS]	: 6202ZZ C3 / 6202ZZ 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	: M20x1.5
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 : 2EL071M2A-FC-A0-000 **Date** : 01.06.2024

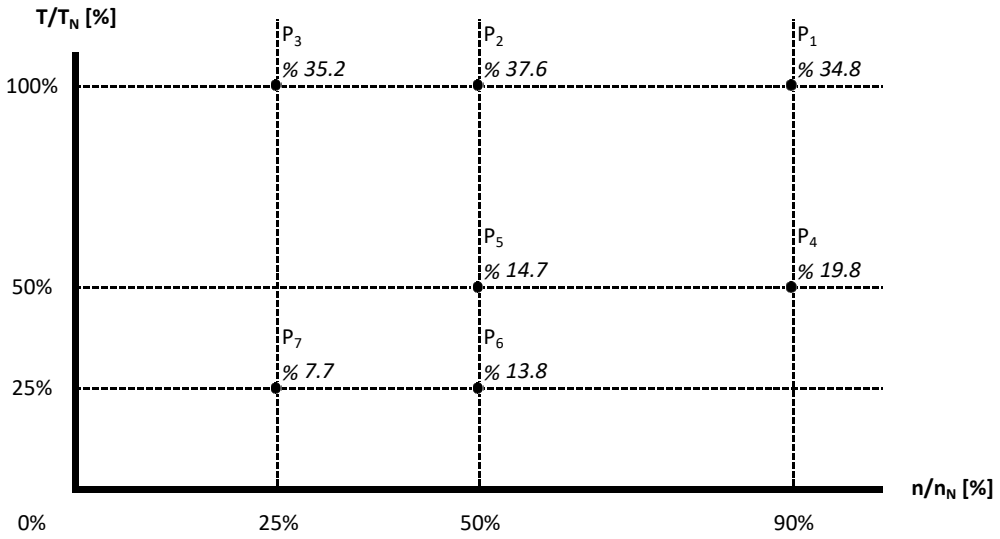
NAMEPLATE DATA

Power [kW]	: 0.37	Nominal Speed [rpm]	: 2790
Nominal Voltage [V]	: 400	Nominal Current [A]	: 0.90
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 1.26
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η%]	: 74.2

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	34.8	72.1
P_2	50	100	37.6	57.1
P_3	25	100	35.2	41.5
P_4	90	50	19.8	69.5
P_5	50	50	14.7	63.1
P_6	50	25	13.8	47.5
P_7	25	25	7.7	44.8

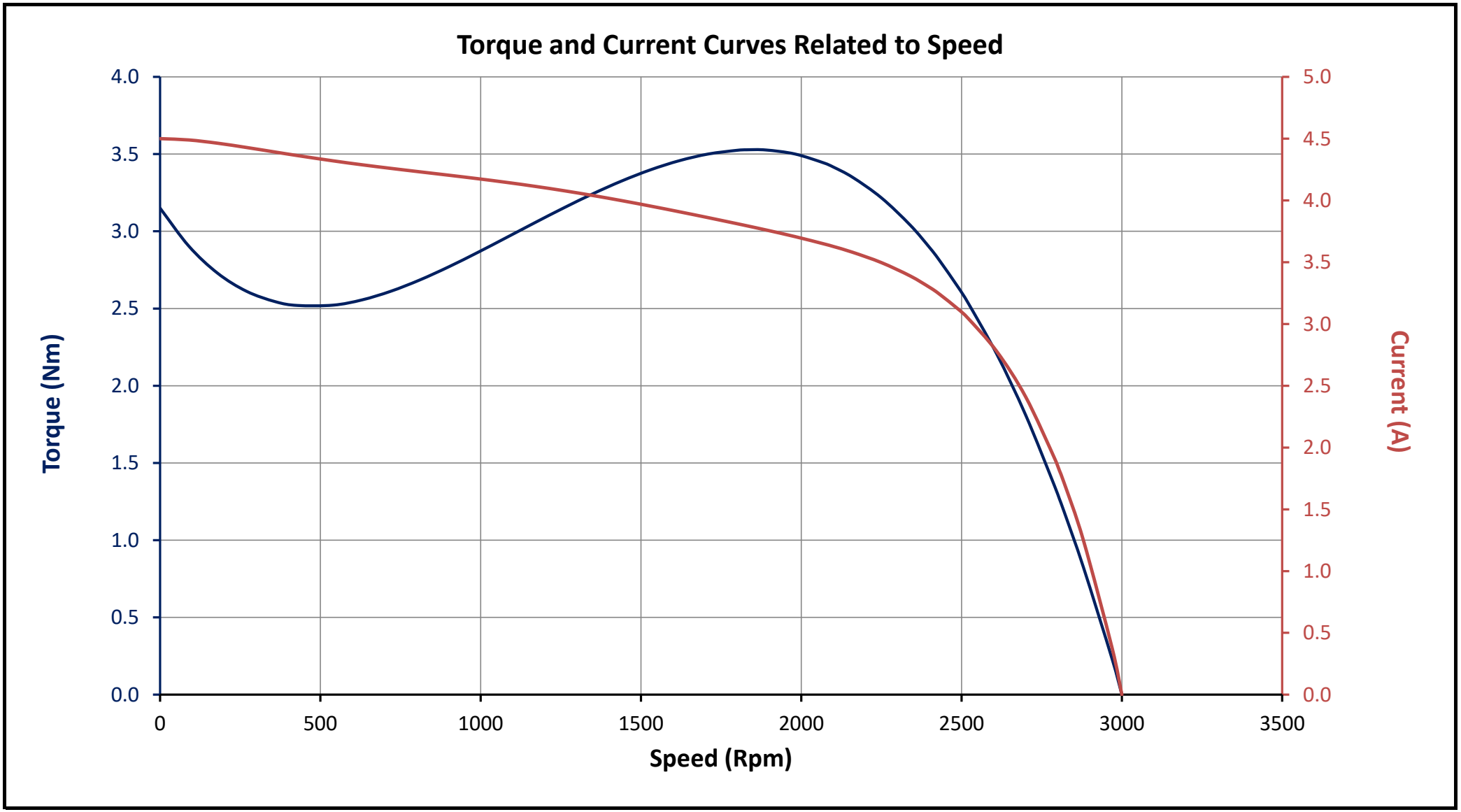
MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



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