ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE3

Type : 3EC071M2C-PC-A0-000 **Date** : 01.06.2024

Power [kW]	: 0.75	Efficiency Class	: IE3
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Y	Service Factor	: --
Frequency [Hz]	: 50	Frame Size	: 071M
Pole Number	: 2	Weight [kg]	: 7.50
Nominal Speed [rpm]	: 2810	Insulation Class	: F [155°C]
Nominal Current [A]	: 1.66	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 2.54	Protection Class	: IP55
Nominal Efficiency [η]	: 80.7	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.81	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 5.0	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.6	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 3.1	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 55

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	2810	2.88	80.7	81.0	80.3	0.81	IE3
Y	400	50	0.75	2810	1.66	80.7	81.0	80.3	0.81	IE3
Y	460	60	0.75	3430	1.44	81.7	81.8	80.0	0.80	IE3
Y	460	60	0.87	3400	1.64	81.0	81.8	80.7	0.82	IE3

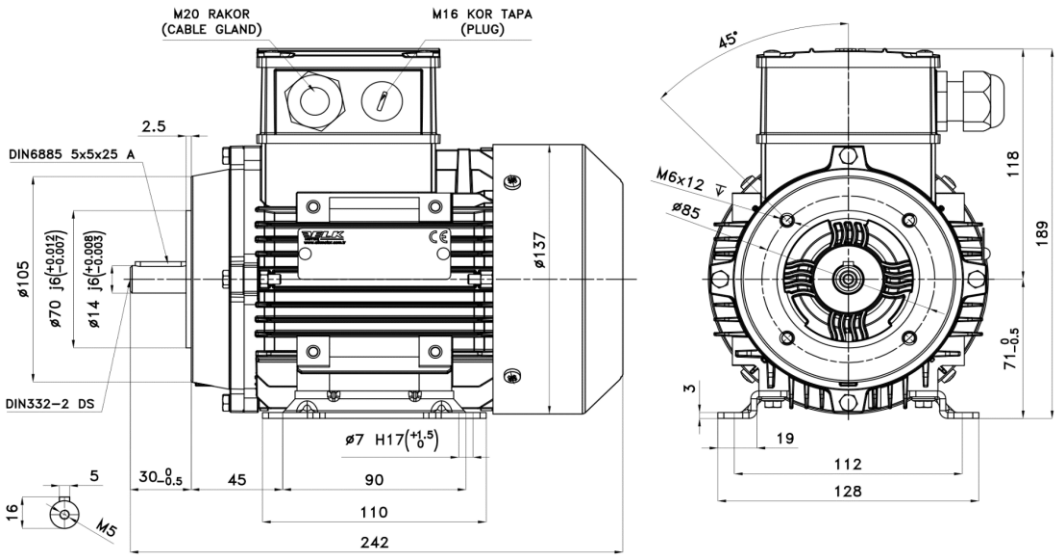
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00046
Bearing [DS / NS]	: 6202ZZ C3 / 6202ZZ C3
Frame Material	: Aluminum
Flange Type / Material	: B34 / 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

*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : 3EC071M2C-PC-A0-000 **Date** : 01.06.2024

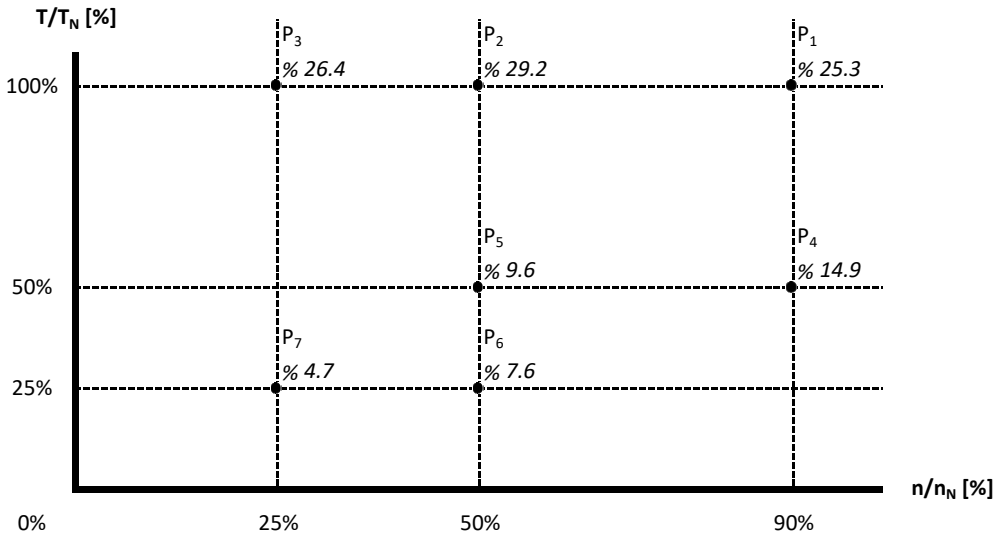
NAMEPLATE DATA

Power [kW]	: 0.75	Nominal Speed [rpm]	: 2810
Nominal Voltage [V]	: 400	Nominal Current [A]	: 1.66
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 2.54
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η%]	: 80.7

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	25.3	78.1
P_2	50	100	29.2	63.2
P_3	25	100	26.4	48.5
P_4	90	50	14.9	75.1
P_5	50	50	9.6	72.2
P_6	50	25	7.6	62.1
P_7	25	25	4.7	57.0

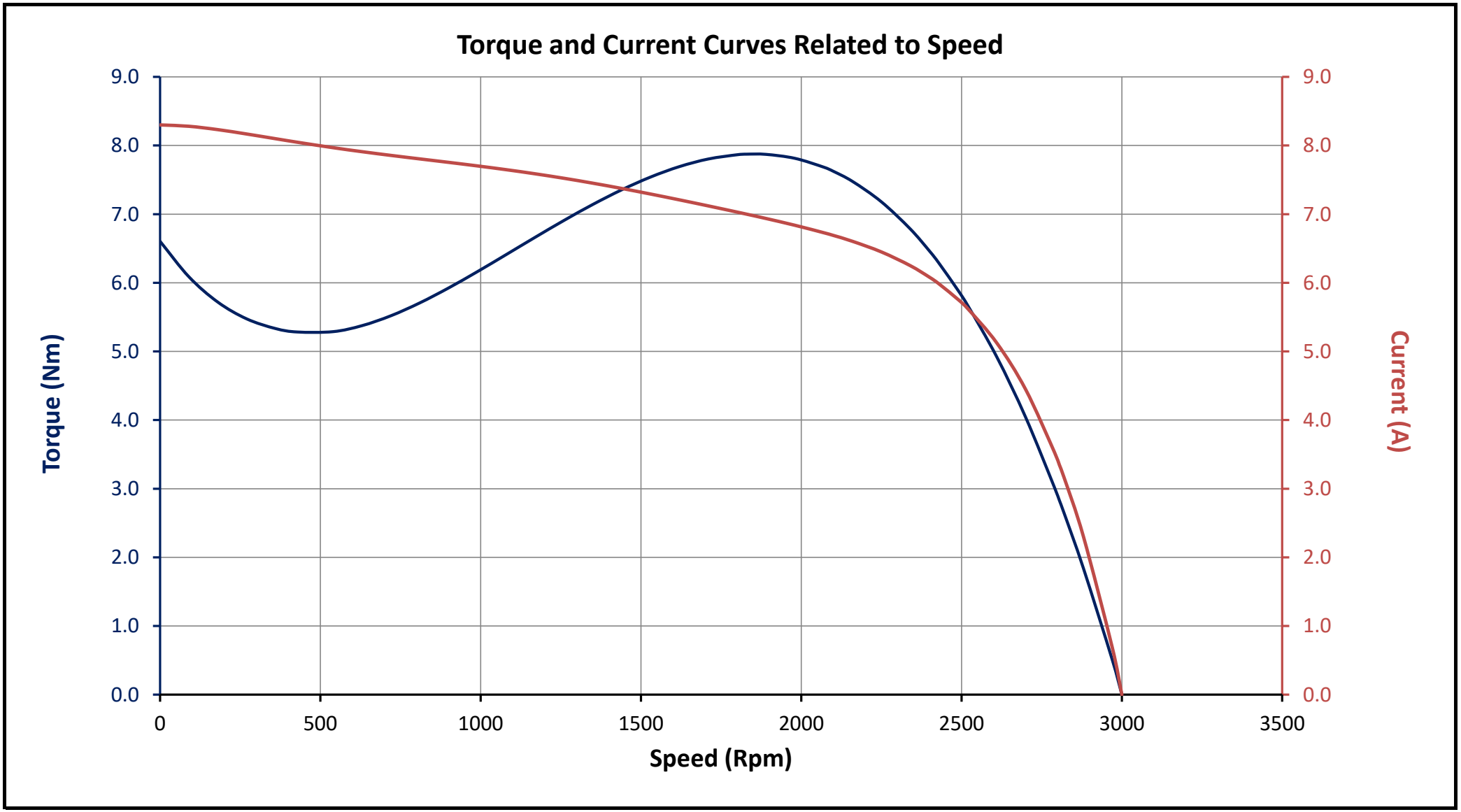
MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



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