ELK MOTOR SAN. ve TİC. A.Ş.
www.elkmotor.com.tr
+90 (282) 726 92 94

DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE2

Type : 2EL071M4B-PC-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	: 071M
Pole Number	: 4	Weight [kg]	: 5.90
Nominal Speed [rpm]	: 1425	Insulation Class	: F [155°C]
Nominal Current [A]	: 0.71	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 1.67	Protection Class	: IP55
Nominal Efficiency [η]	: 74.0	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.69	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 4.4	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.0	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]	: 46

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	1425	1.23	74.0	73.5	70.5	0.69	IE2
Y	400	50	0.25	1425	0.71	74.0	73.5	70.5	0.69	IE2
Y	460	60	0.25	1730	0.64	74.6	74.2	71.4	0.66	IE2
Y	460	60	0.29	1720	0.70	75.8	75.0	71.0	0.69	IE2

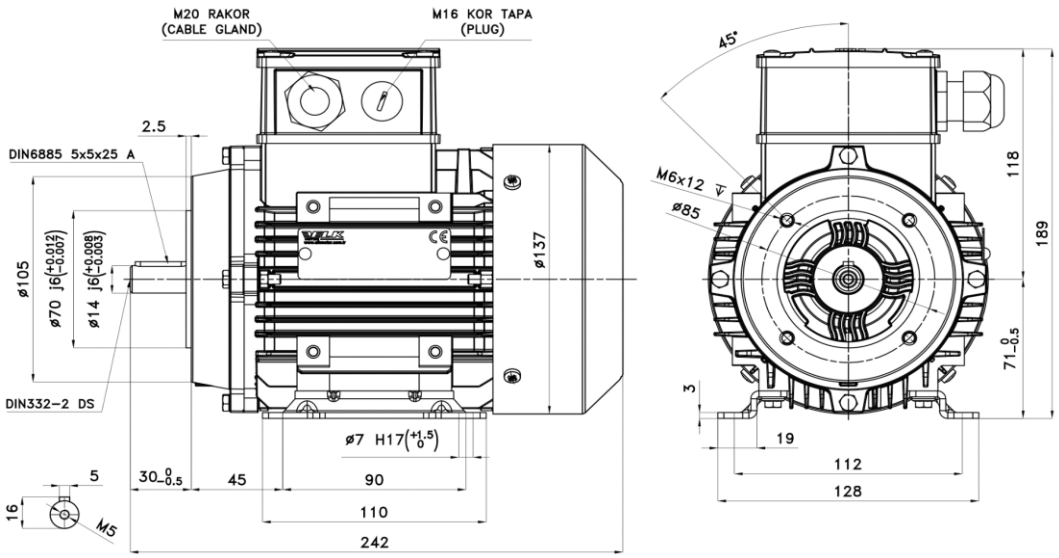
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00067
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.

*ELK Motor has right to change all the data without prior notice.

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 : 2EL071M4B-PC-A0-000 **Date** : 01.06.2024

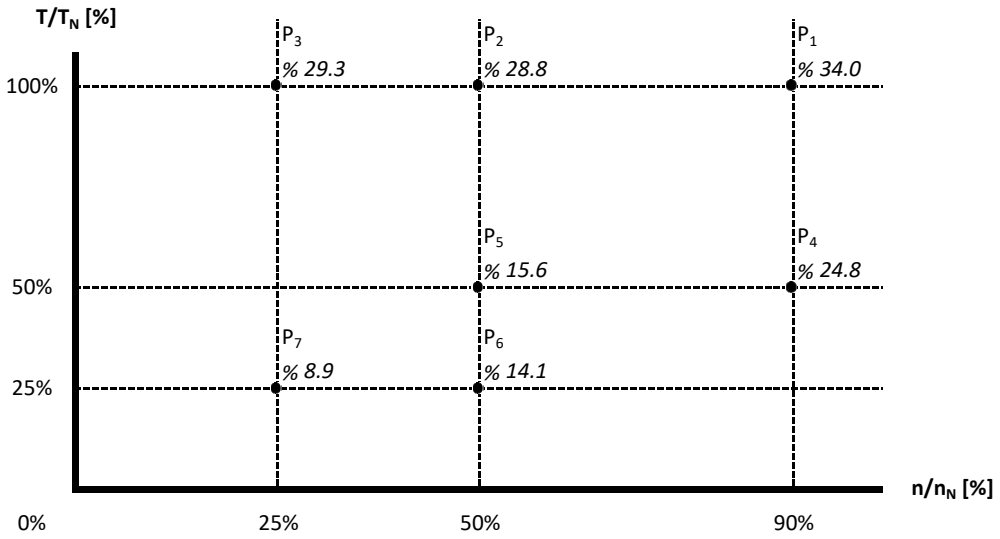
NAMEPLATE DATA

Power [kW]	: 0.25	Nominal Speed [rpm]	: 1425
Nominal Voltage [V]	: 400	Nominal Current [A]	: 0.71
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 1.67
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η%]	: 74.0

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	34.0	72.6
P_2	50	100	28.8	63.5
P_3	25	100	29.3	46.2
P_4	90	50	24.8	64.6
P_5	50	50	15.6	61.8
P_6	50	25	14.1	46.8
P_7	25	25	8.9	41.7

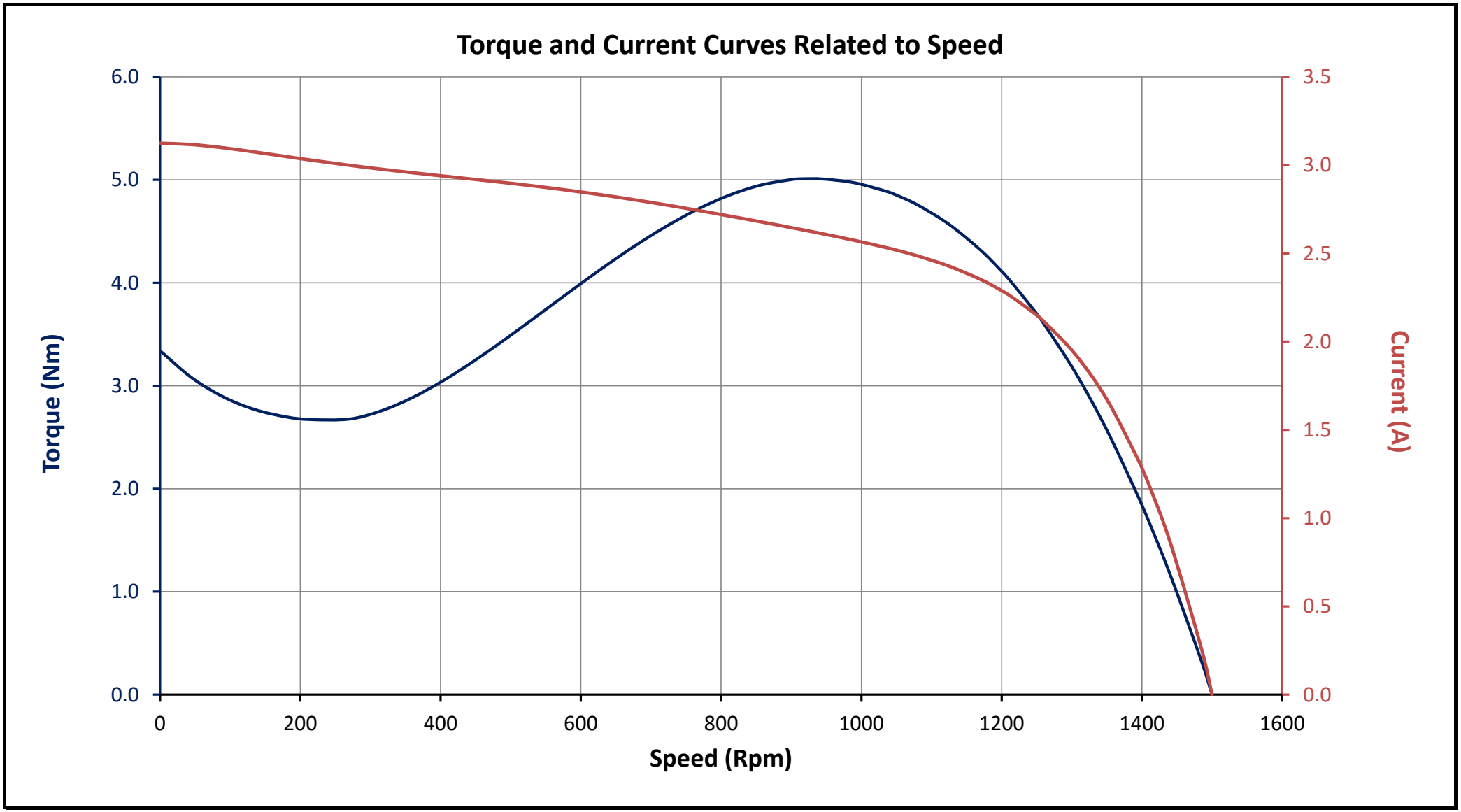
MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



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.

Motor Code : 2EL071M4B-PC-A0-000



Motor Code : 2EL071M4B-PC-A0-000

