

Type : 2EL071M4B-PC-A0-000

Date : 01.01.2023

Power [kW] : 0.25
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 4
Nominal Speed [rpm] : 1425
Nominal Current [A] : 0.71
Nominal Moment [Nm] : 1.68
Nominal Efficiency [η] : 74.0
Power Factor [$\cos\phi$] : 0.69
Locked Rotor Current [I_a/I_n] : 4.4
Locked Rotor Torque [Ma/Mn] : 2.0
Breakdown Torque [Mk/Mn] : 3.0
Motor Color : RAL 7031
Ambient Temperature : $-15^\circ\text{C} / +40^\circ\text{C}$

Efficiency Class : IE2
Duty Cycle : S1
Service Factor : 1.15
Frame Size : 071M
Weight [kg] : 6.30
Insulation Class : F [155°C]
Temperature Rise : B [80°K]
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] : 46

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cos ϕ	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

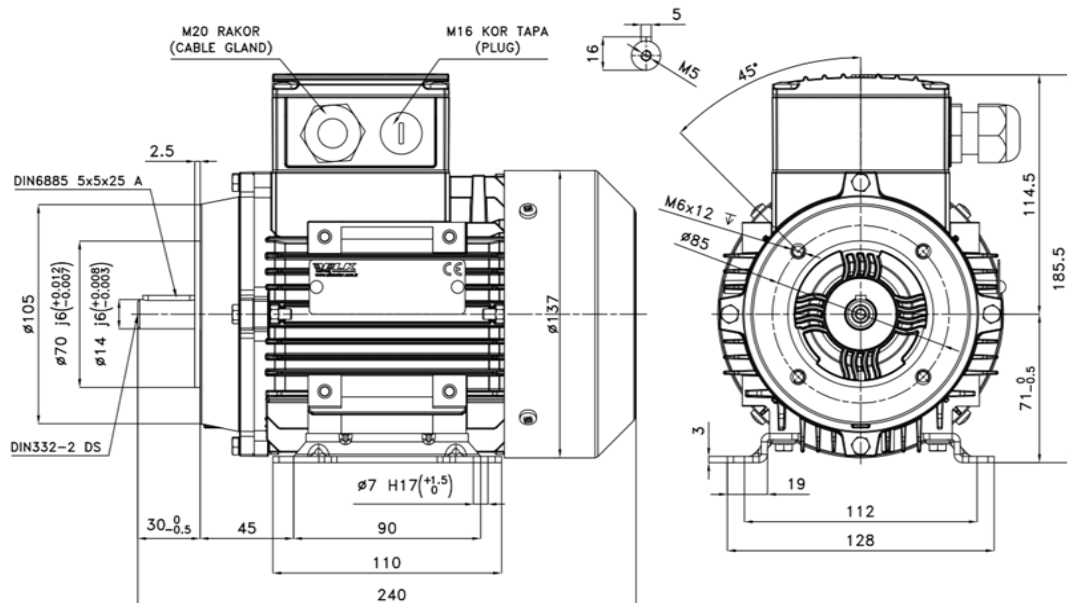
MECHANICAL DATA

Moment of Inertia [kgm^2] : 0.00067
Bearing [DS / NS] : 6202ZZ / 6202ZZ
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

*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



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TECHNICAL DATASHEET ACCORDING TO COMMISSION REGULATION (EU) 2019/1781 THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : 2EL071M4B-PC-A0-000

Date : 01.01.2023

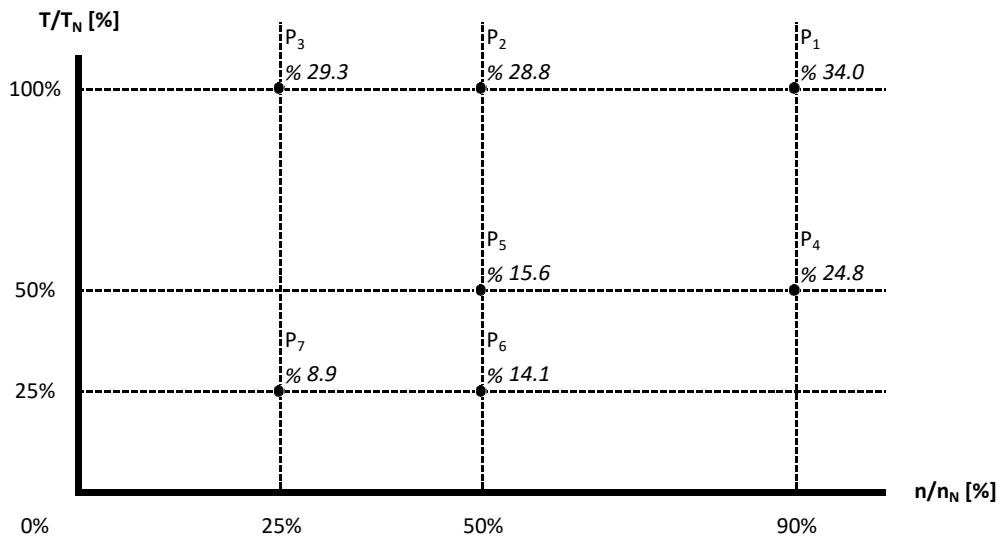
NAMEPLATE DATA

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]	: 1.68
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

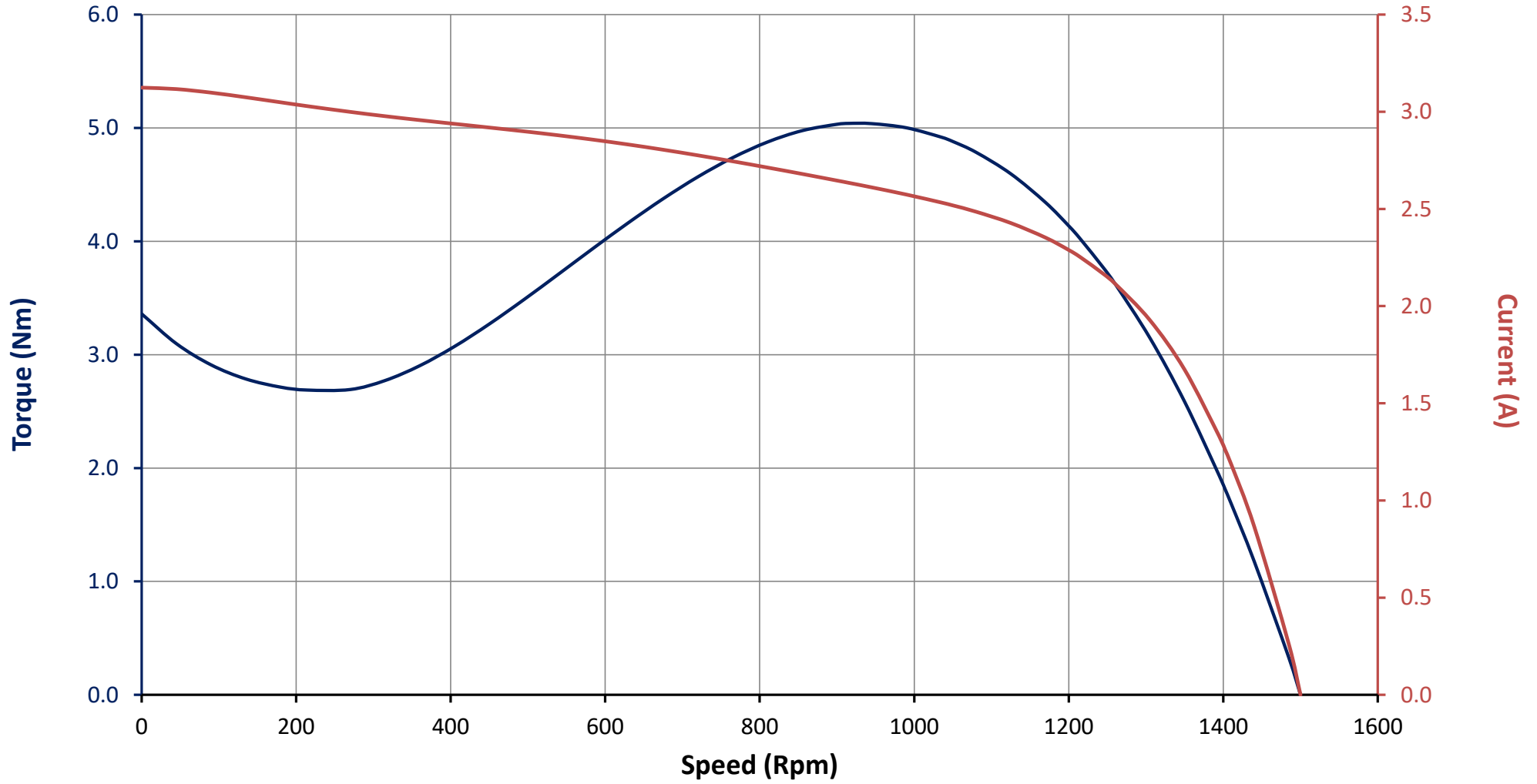
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Torque and Current Curves Related to Speed



Motor Code : 2EL071M4B-PC-A0-000

Performance Curves Related to Rated Output

