

Type : 2EL071M4C-FA-A0-000

Date : 01.01.2023

Power [kW] : 0.37
Input Voltage [V] : 400
Connection Type [Δ / Y] : Y
Frequency [Hz] : 50
Pole Number : 4
Nominal Speed [rpm] : 1425
Nominal Current [A] : 1.00
Nominal Moment [Nm] : 2.47
Nominal Efficiency [η] : 76.1
Power Factor [$\cos\phi$] : 0.70
Locked Rotor Current [I_a/I_n] : 4.6
Locked Rotor Torque [M_a/M_n] : 2.0
Breakdown Torque [M_k/M_n] : 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] : 7.00
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]	$\cos\phi$	Cl
Δ	230	50	0.37	1425	1.73	76.1	75.5	71.5	0.70	IE2
Y	400	50	0.37	1425	1.00	76.1	75.5	71.5	0.70	IE2
Y	460	60	0.37	1730	0.92	76.8	76.2	72.3	0.66	IE2
Y	460	60	0.43	1720	0.98	78.0	77.0	73.0	0.70	IE2

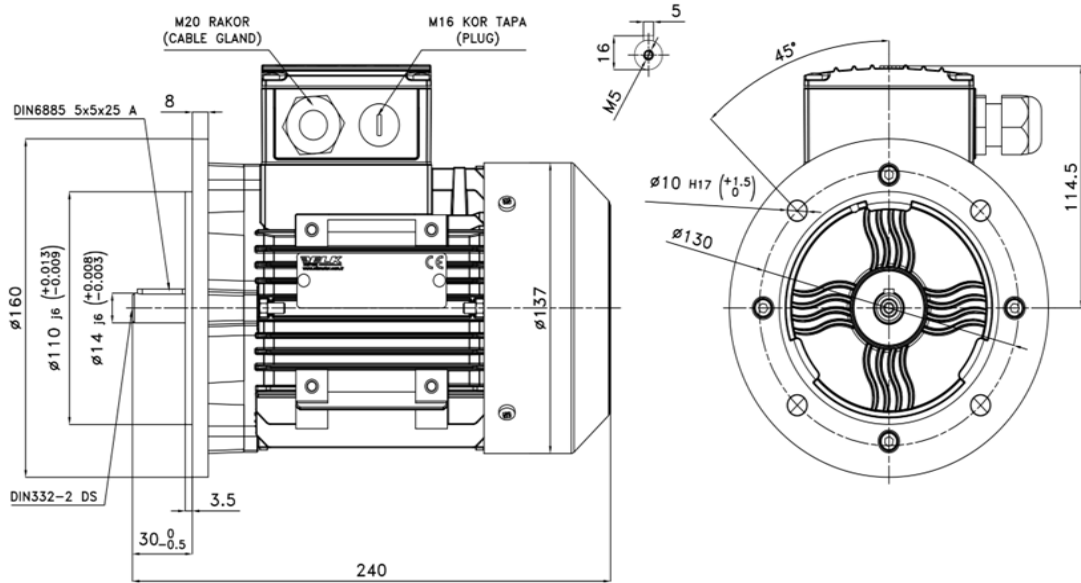
MECHANICAL DATA

Moment of Inertia [kgm^2] : 0.00082
Bearing [DS / NS] : 6202ZZ / 6202ZZ
Frame Material : Aluminum
Flange Type / Material : B5 / 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 : 2EL071M4C-FA-A0-000

Date : 01.01.2023

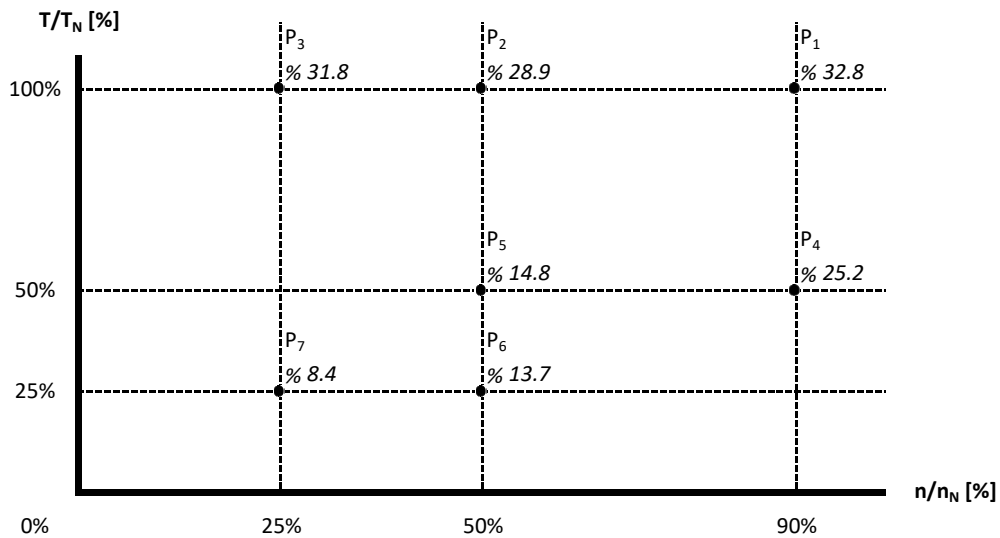
NAMEPLATE DATA

Power [kW]	: 0.37	Nominal Speed [rpm]	: 1425
Nominal Voltage [V]	: 400	Nominal Current [A]	: 1.00
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 2.47
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 76.1

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	32.8	73.3
P ₂	50	100	28.9	63.4
P ₃	25	100	31.8	44.1
P ₄	90	50	25.2	64.2
P ₅	50	50	14.8	62.9
P ₆	50	25	13.7	47.5
P ₇	25	25	8.4	42.4

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



Manufactured and tested in accordance with IEC 60034

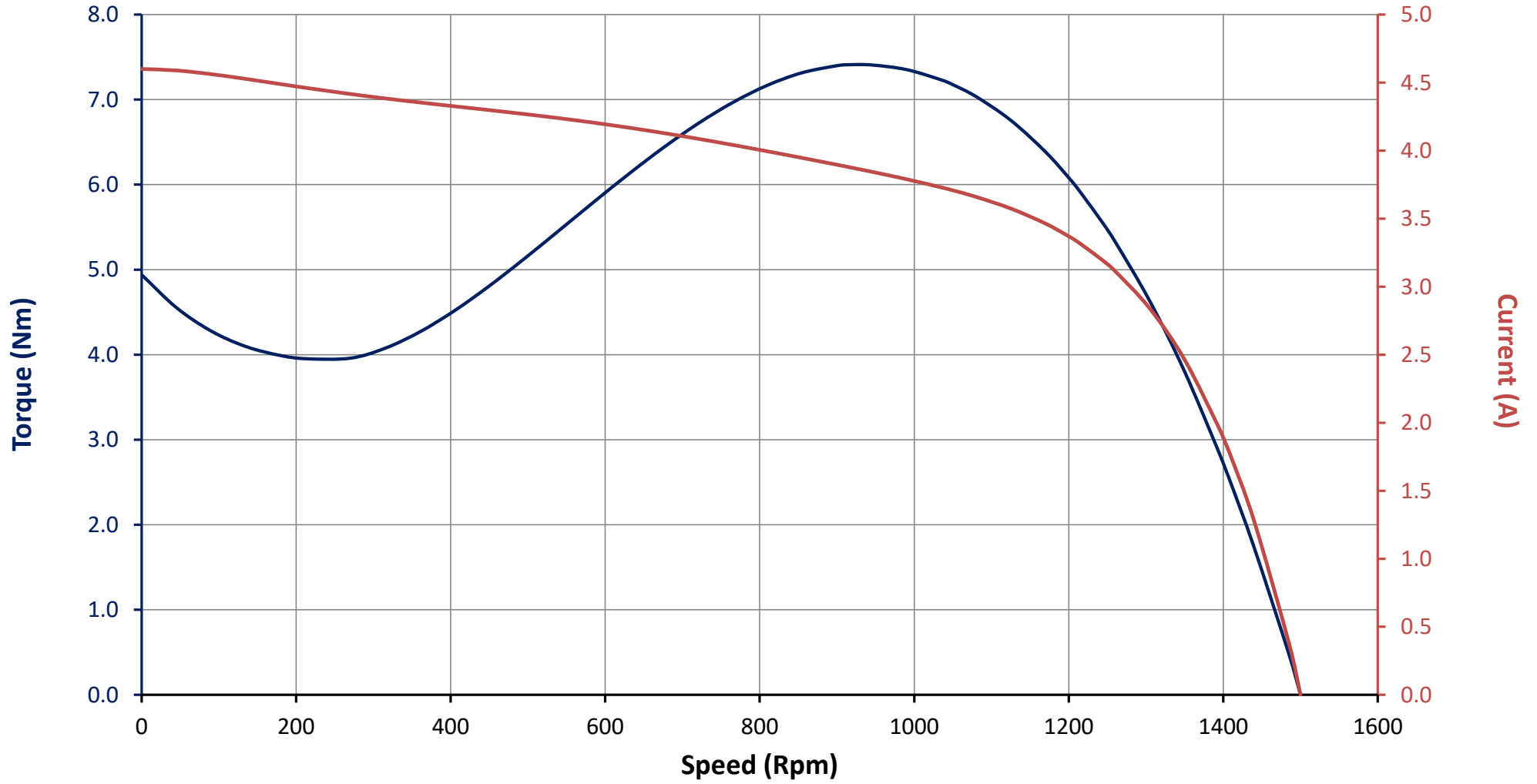
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Torque and Current Curves Related to Speed



Motor Code : 2EL071M4C-FA-A0-000

Performance Curves Related to Rated Output

