

Type : 4EL200L2D-PD-BA-000

Date : 01.01.2023

Power [kW]	: 37.0	Efficiency Class	: IE4
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Δ	Service Factor	: 1.25
Frequency [Hz]	: 50	Frame Size	: 200L
Pole Number	: 2	Weight [kg]	: 235
Nominal Speed [rpm]	: 2970	Insulation Class	: F [155°C]
Nominal Current [A]	: 63.3	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 120	Protection Class	: IP55
Nominal Efficiency [η]	: 94.8	Vibration Severity Grade	: A
Power Factor [$\cos\phi$]	: 0.89	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [I_a/I_n]	: 8.3	Direction of Rotation	: Bidirectional
Locked Rotor Torque [M_a/M_n]	: 3.2	Balance	: Half Key
Breakdown Torque [M_k/M_n]	: 4.0	Motor Thermal Protection	: PTC
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 74

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cos ϕ	Cl
Δ	400	50	37.0	2970	63.3	94.8	95.0	94.2	0.89	IE4
Y	690	50	37.0	2970	36.5	94.8	95.0	94.2	0.89	IE4
Δ	460	60	37.0	3565	56.1	94.1	93.9	93.2	0.88	IE4
Δ	460	60	42.9	3560	63.2	94.5	94.7	93.9	0.90	IE4

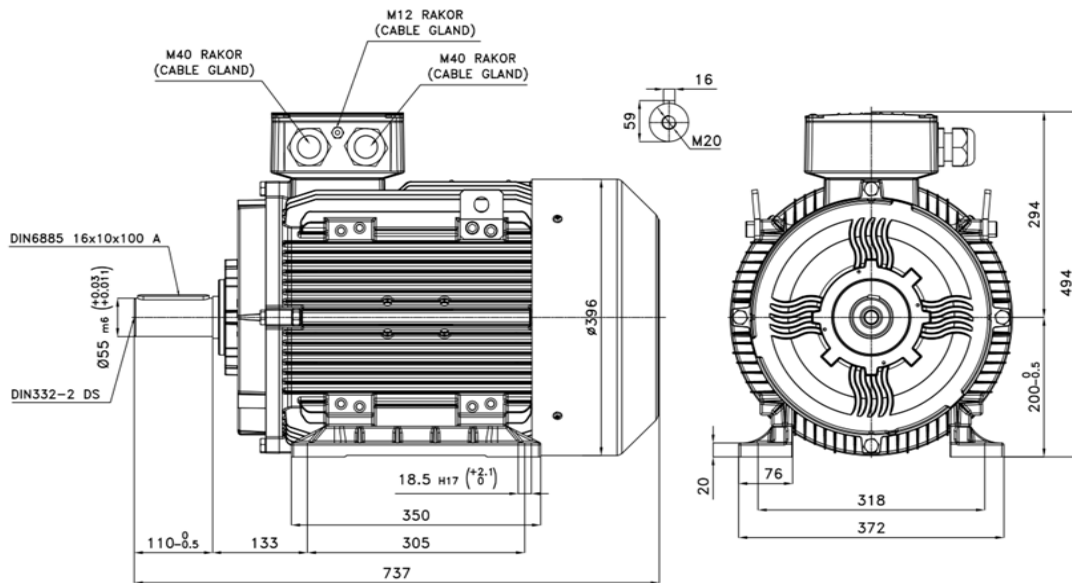
MECHANICAL DATA

Moment of Inertia [kgm ²]	: 0.20000
Bearing [DS / NS]	: 6312ZZ / 6212ZZ
Frame Material	: Aluminum
Flange Type / Material	: B3 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: M12x1.5+2xM40x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M6

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 : 4EL200L2D-PD-BA-000

Date : 01.01.2023

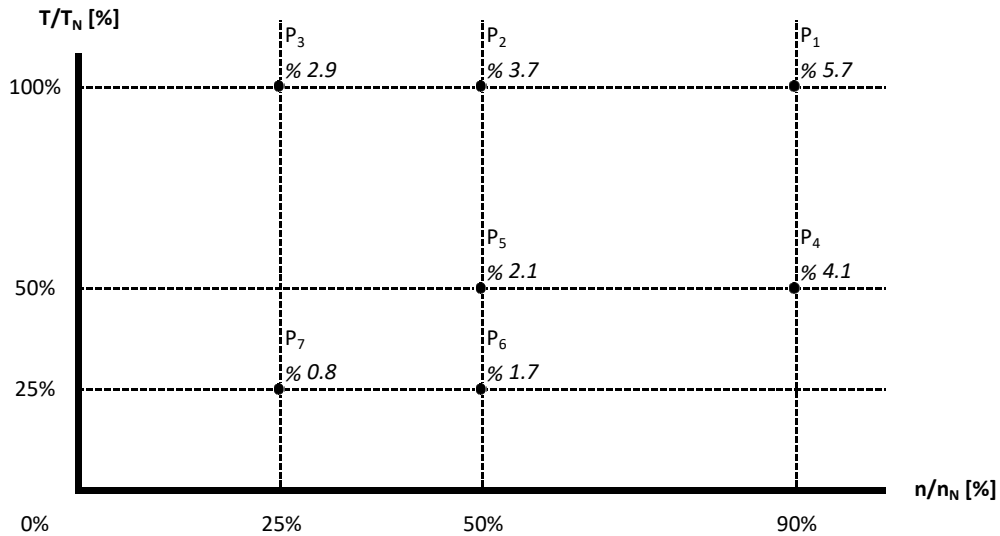
NAMEPLATE DATA

Power [kW]	: 37.0	Nominal Speed [rpm]	: 2970
Nominal Voltage [V]	: 400	Nominal Current [A]	: 63.3
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 120
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 94.8

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	5.7	94.1
P ₂	50	100	3.7	93.1
P ₃	25	100	2.9	89.6
P ₄	90	50	4.1	91.6
P ₅	50	50	2.1	92.2
P ₆	50	25	1.7	88.0
P ₇	25	25	0.8	88.1

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



Manufactured and tested in accordance with IEC 60034

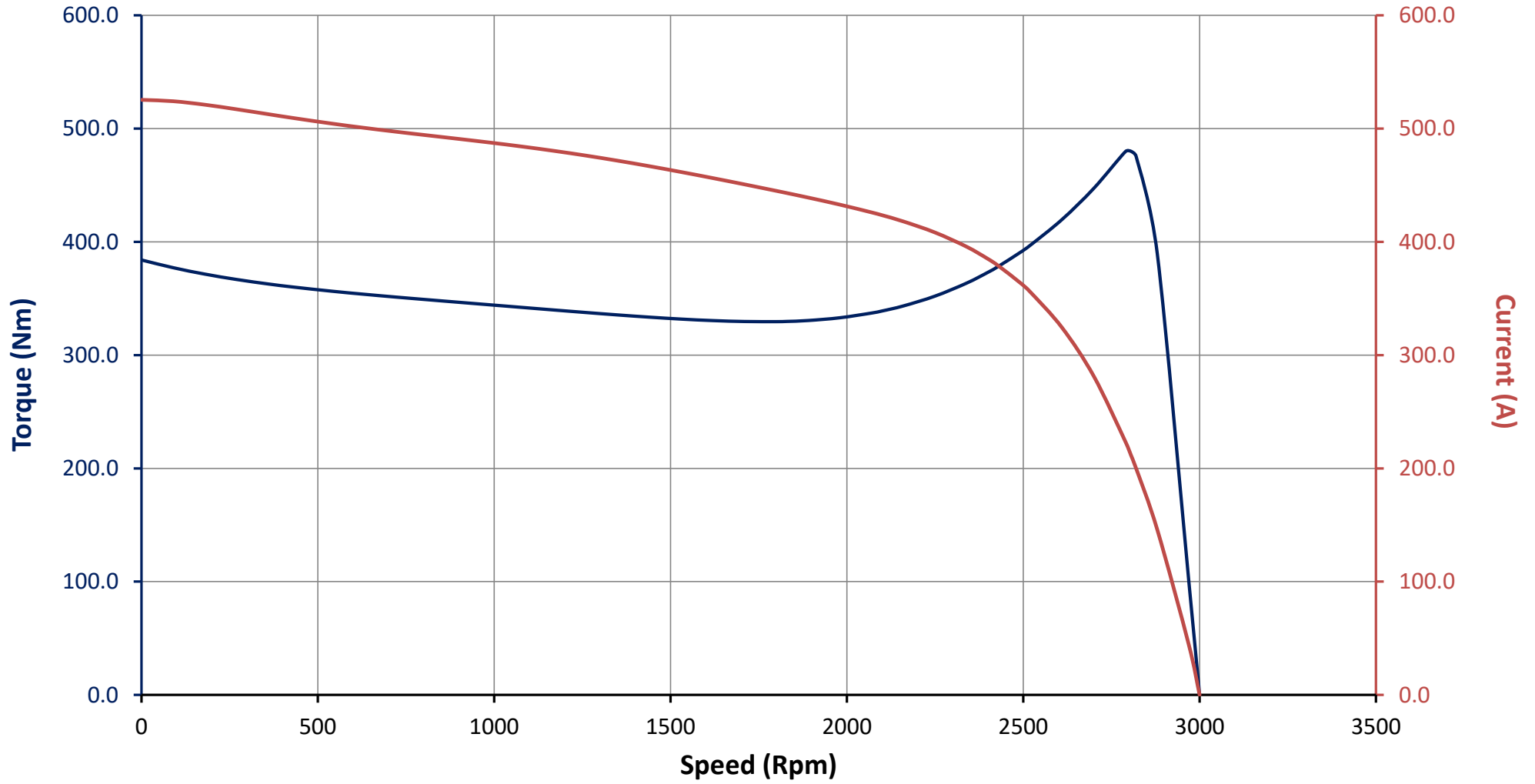
FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

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Motor Code : 4EL200L2D-PD-BA-000

Torque and Current Curves Related to Speed



Motor Code : 4EL200L2D-PD-BA-000

Performance Curves Related to Rated Output

