

Type : 4EL200L2D-PA-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 |

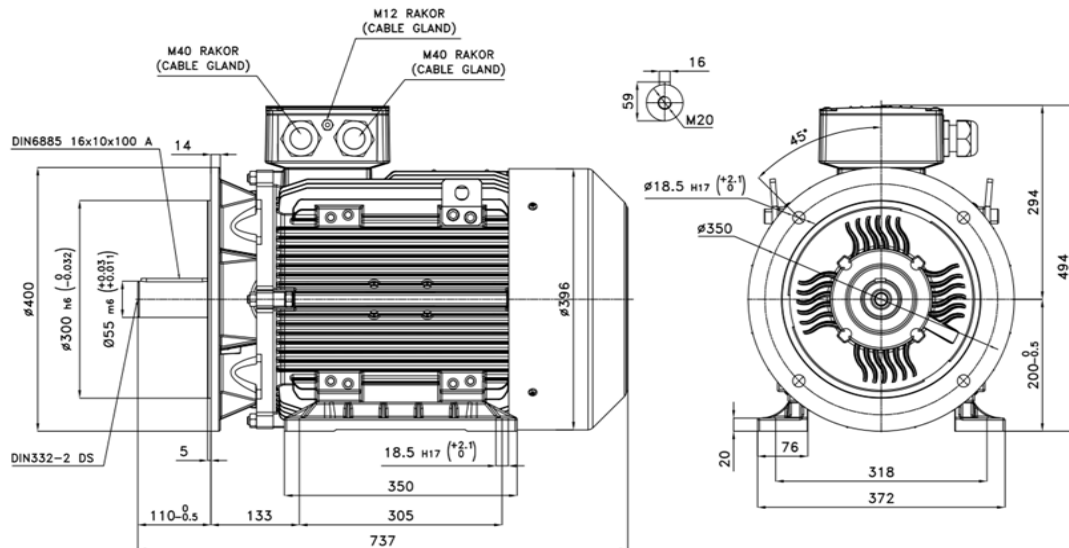
MECHANICAL DATA

| | |
|---------------------------------------|-------------------|
| Moment of Inertia [kgm ²] | : 0.20000 |
| Bearing [DS / NS] | : 6312ZZ / 6212ZZ |
| Frame Material | : Aluminum |
| Flange Type / Material | : B5 / 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-PA-BA-000

Date : 01.01.2023

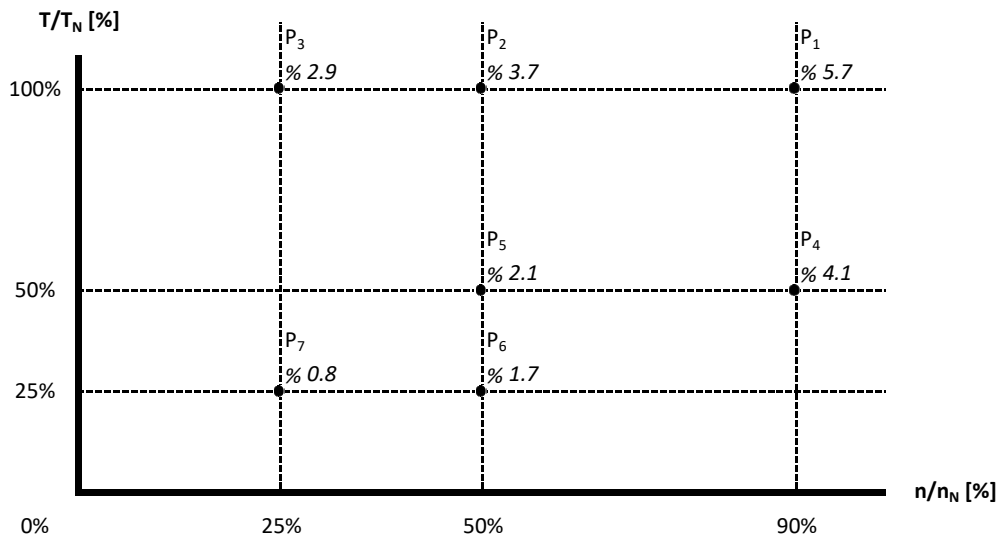
NAMEPLATE DATA

| | | | |
|---------------------------------|------------|--------------------------------|--------|
| 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

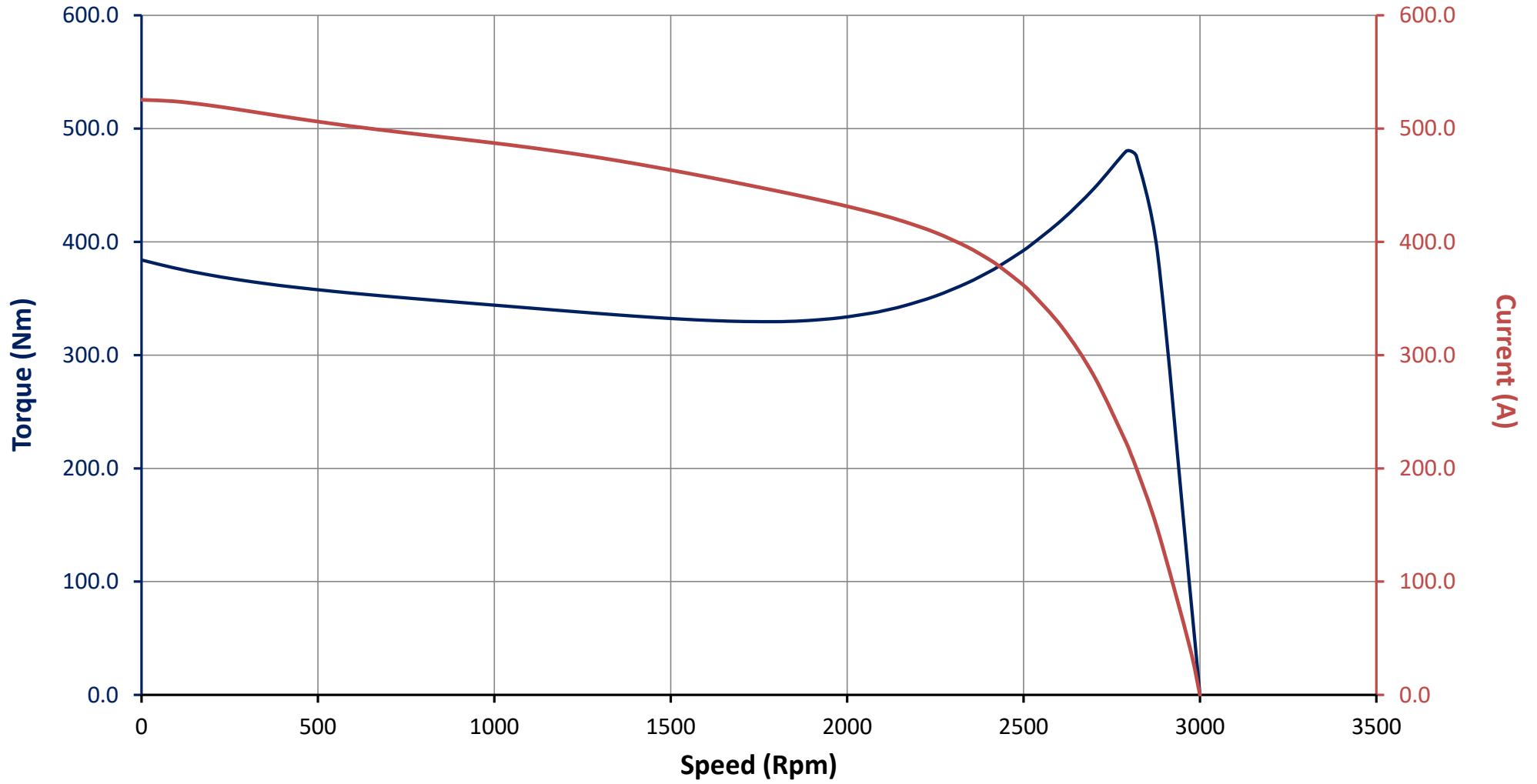
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Motor Code : 4EL200L2D-PA-BA-000

Torque and Current Curves Related to Speed



Motor Code : 4EL200L2D-PA-BA-000

Performance Curves Related to Rated Output

