

MKH - Asynchronous motor IE4

Maximum efficiency with proven technology

Energy efficiency is one of the key drivers of modern industry. Electric motors are used in nearly all industrial applications and account for a significant share of global energy consumption. Choosing the right motor technology is therefore crucial for profitability, sustainability, and reducing a plant's carbon footprint.

Sustainable investment

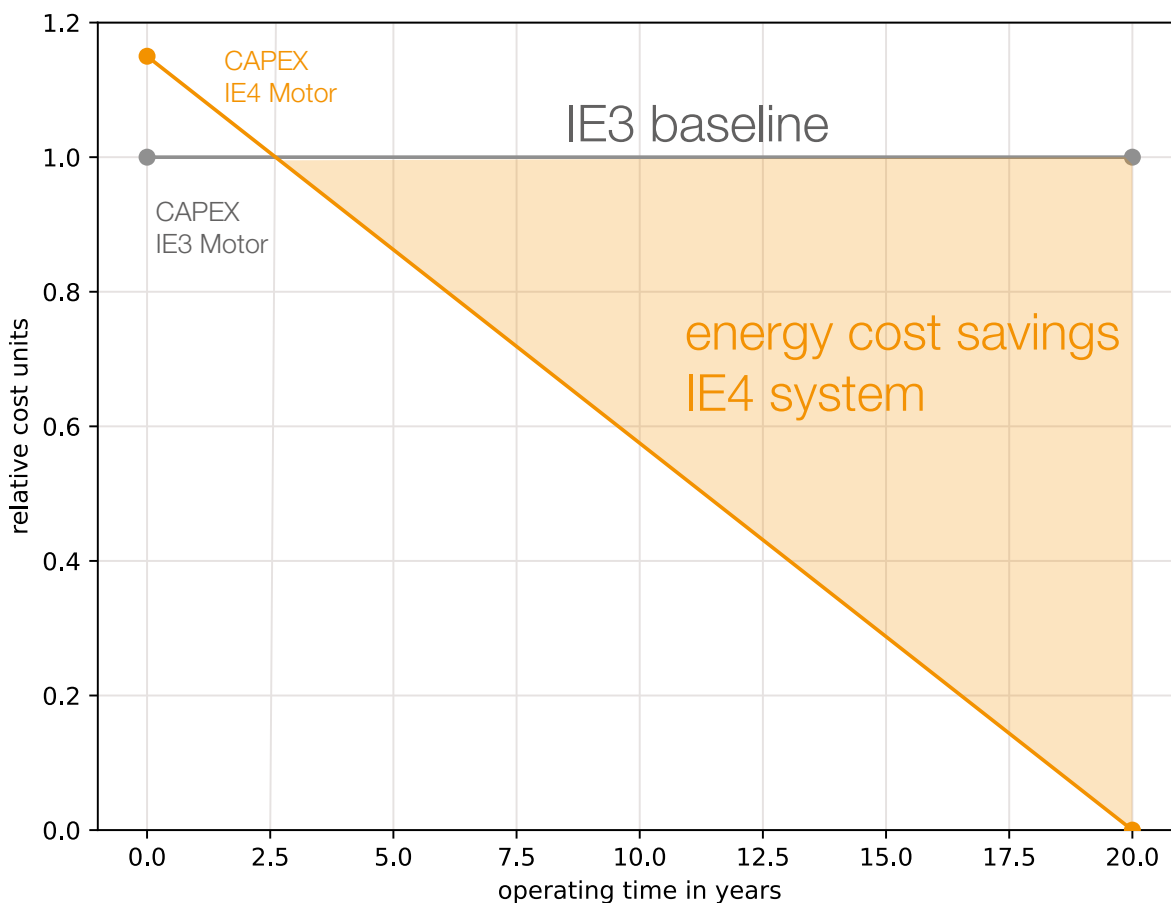
With the latest generation of water-cooled asynchronous motors in energy efficiency class IE4, ELIN Motoren sets a strong benchmark for sustainability and economic performance. The MKH motor series combines proven technology with state-of-the-art efficiency – delivering maximum performance with minimal energy consumption. Operators benefit from significantly lower operating costs, reduced CO2 emissions, and a quick return on investment.

As an experienced partner, ELIN Motoren provides customized solutions – from standard drives to special-purpose motors. The portfolio is complemented by comprehensive consulting, worldwide technical support, as well as retrofit and replacement solutions. This ensures long-term benefits for customers through maximum efficiency, reliability, and an extended service life of their equipment.

Maximum performance

The MKH series impresses with its compact design and high power density. The integrated water-cooling system dissipates heat directly and efficiently, keeping operating temperatures consistently low and extending the lifetime of both windings and bearings. Even under continuous high load, the motor operates reliably and energy-efficiently – ideal for applications in process industries and plant engineering.

Economic advantage through IE4 efficiency



The diagram illustrates the cost development of IE3 and IE4 motors over their operating lifetime. Despite the higher initial investment, the IE4 motor pays for itself after just around 2.5 years due to its lower energy costs (based on 8,000 h/year, €0.15/kWh). From that point on, it outperforms the IE3 motor both economically and ecologically – efficiency that pays off.

Key Features

Performance range	up to 1000 kW
Speed range	up to 3600 rpm
Design standards	IEC 60034
Voltage	690 V
IEC frame size	250-450

Key Benefits

- + High energy savings through IE4 standard
- + Lower operating costs and quick payback
- + Extended lifetime thanks to optimal cooling
- + Constant shaft height – easy retrofit
- + Ideal for continuous operation with constant loads

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