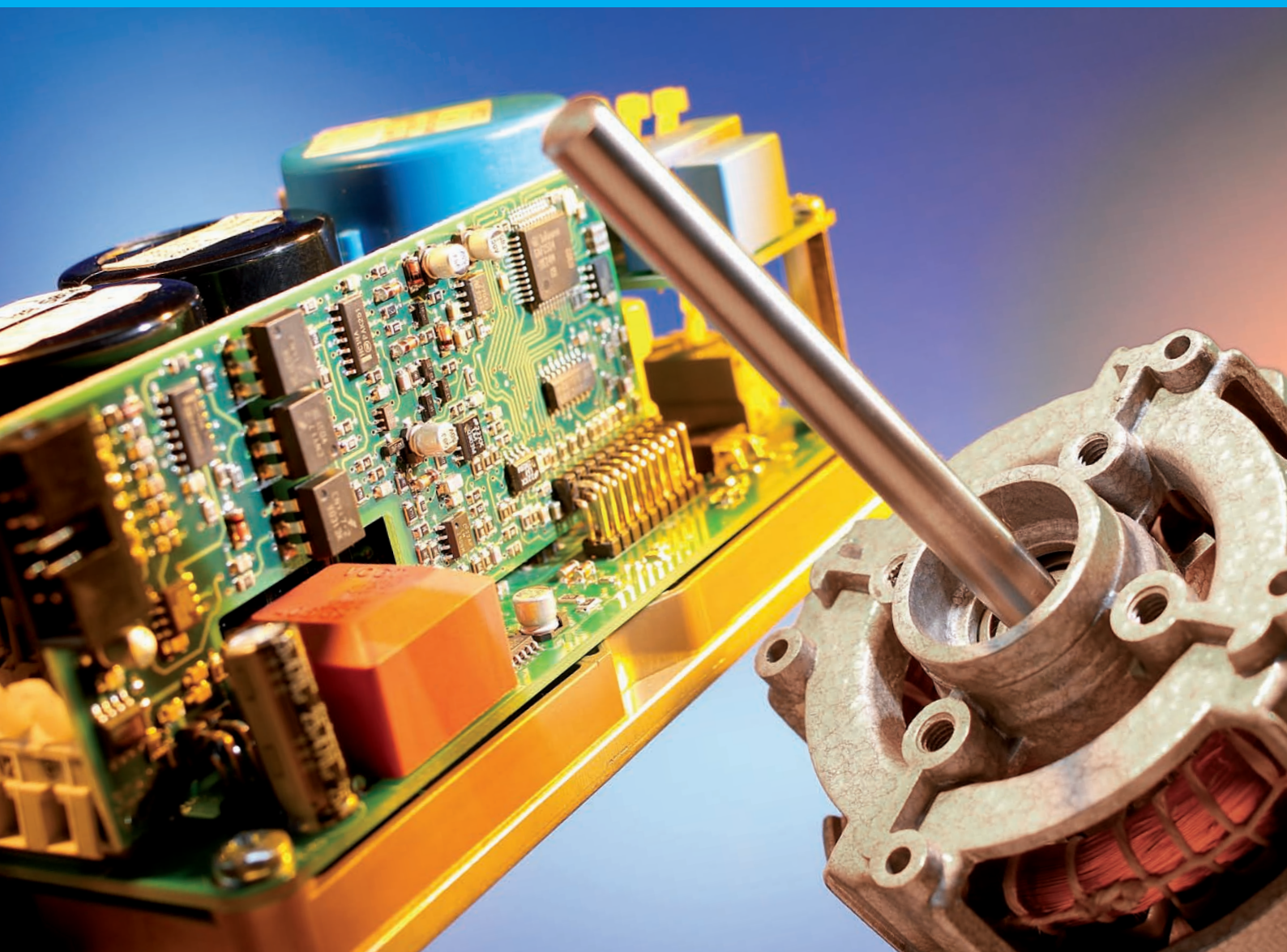
HANNING

moving ideas

SYNCHRONOUS TECHNOLOGY

for industrial applications

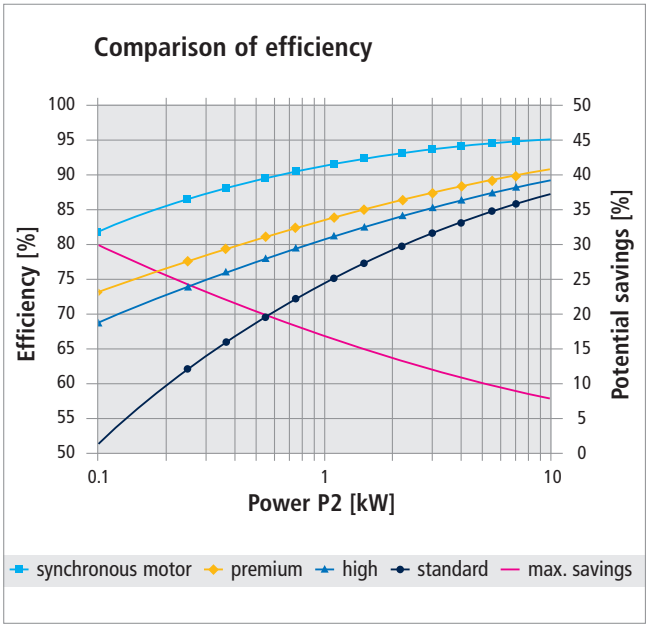


energy saving – compact – individual

Synchronous Technology

The new electrically commutated synchronous motors from HANNING are mainly characterised by their compact design and high efficiency, which is especially suited for partial-load operations, and their application specific layout. Synchronous motors are available as enclosed motors in sizes 56 – 132, with varying performance categories up to 7.5 kW. Versions are also available without enclosures. They feature variable speed settings, total stability and thus a high tolerance against any possible load fluctuations. The rotors are equipped with high-quality permanent magnets and operate without loss.

In addition to the mechanical modifications, these motors can of course also be electrically optimised for an application. Synchronous motors require electronics which must be adapted to the application to ensure that the drive system is not only process but also drive optimised and remarkably energy efficient.



Comparison of efficiency between HANNING synchronous motors and asynchronous motors, 2-pole, 50 Hz according to EN 60034-30

Features

- Compact design
- Motor and electronics from the same supplier
- Internal rotor motor construction, with high-quality permanent magnets
- Enclosed and open versions
- Modular drive concept
- Very efficient, particularly in partial-load operation
- High power density
- Variable speed
- Low noise
- Maintenance-free robust design with lifelong lubrication of the ball bearings

Equipment versions at a glance

- Foot and flange design combinations
- Special end shields
- Special armatures
- Customised winding designs
- Insulation class F or H
- Enclosed motors with IP54 / IP55
- Various electrical connections
- Operating units
- Cable connection without terminal box
- Fieldbus connection (PROFIBUS, CAN in development)
- RS485 serial data interface

Application Examples

- The pumping industry: fluid and vacuum pumps
- The food industry: materials handling
- General mechanical and systems engineering: wood working, plastic processing

The matching solution for every task

HANNING offers a wide range of electrical and electronic drive components such as three-phase and AC motors, linear actuators, radial blowers, drain and circulation pumps and frequency inverters.

The individual designs of all components as well as HANNING's comprehensive engineering know-how ensure best solutions for drive requirements.

HANNING

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