INDUSTRIAL ELECTRONICS



INVEOR – The new efficiency standard in pump technology

The universal drive controller for asynchronous and synchronous motors

Smart connections.

Product features



Unique product features illustrate that the efficiency thinking in our drive controller platform INVEOR is integrated down to the smallest detail.

Intuitive usability and programming concept:

- Foil keypad can be integrated optionally
- Handheld control with clear display available
- Integrated Soft-PLC in acc. with EN 61131-3
- PC software with integrated oscilloscope function
- Optional fieldbus systems (e.g. CANopen, EtherCAT, Profibus)

Flexible application on all common motor types:

- Asynchronous motors
- Synchronous motors

Easy assembly:

- Motor-integrated or close to the motor assembly
- Suitable for indoor and outdoor use

Energy efficiency:

- Vector control
- Pump operation with power saving function
- PID controller with integrated stand-by function
- Wide input voltage range

Service friendliness:

- Robust and compact die casting cabinet
- High temperature and vibration resistance
- Modern circuit topology
- Self-convection up to 7.5 kW
- S1 operation within 50 °C (122 °F) and 8 kHz without derating

Intelligent drive technology – Efficient down to the detail



Stronger cohesion provides security. Our objective is to pull together in one direction with our customers and partners, thereby always advancing developments.



For everyone the suitable solution: Our drive controller platform INVEOR is constructed for universal use. Of course, the INVEOR allows the possibility to adapt to the customer's needs easily.



Our universally applicable INVEOR drive controller platform can be assembled both motorintegrated and motor-close. So, e.g. also wall mounting is possible.

Partnership for more efficiency

The family owned company KOSTAL can draw on a century of business tradition and comprehensive expertise, making it your dependable business partner. The KOSTAL Group gives reliability thanks to its facilities all over the world, drawing on their development and production capacities when and wherever necessary. Due to this international connection KOSTAL offers a variety of competencies and technologies from one source. We set ourselves very high quality standards when developing and manufacturing our innovative and to customer requirements adaptable products, which is reflected by our zero-error approach to work. We make use of special quality tools throughout the entire development phase and also until the products go into serial production, e.g. the testing of electromagnetic compatibility (EMC) as well as a 100% final inspection. Furthermore, a dialogue with our customers based on partnership is very important to us, to ensure and guarantee shared success.

Universal drive controller platform INVEOR

The drive technology had been used to be the focus of our business operation. Together with a series of reputable customers from different industries we develop and produce customerspecific solutions. Based on this wide range of experience we created an innovative platform with our drive controller INVEOR which can be used universal due to its modular construction. Thus the INVEOR offers a variety of possibilities for increase in efficiency in many different industries.

All sizes of the INVEOR (from 0.37kW to 22kW) offer a basic model, which is almost identical in terms of design, handling and building structure. The INVEOR allows the possibility to adapt to the customer's needs easily. Therefore, all customers benefit from large-scale production, even if only a small quantity is needed without having to dispense individual preferences.





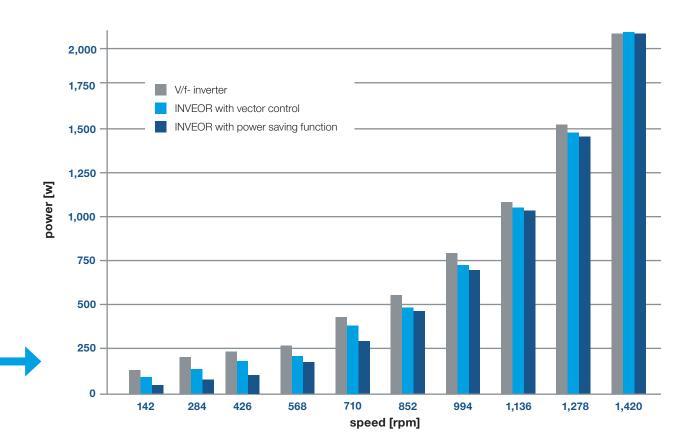
INVEOR – the efficient solution in the field of pump technology

With our drive controller INVEOR we provide a high-efficiency solution in the field of pump technology. Using a new kind of control process, adapted precisely to the specific requirements of different pump designs, we attain optimum system efficiency. This results in great energysaving potential, especially with partial loads, which cannot be achieved using the standard procedure (see diagram below).

Due to an innovative adaptation the INVEOR is suitable for all kinds of common motors. Both

asynchronous and synchronous motors can be driven by our energy-efficient drive controller platform. A foil keypad can be integrated to make the INVEOR particularly easy to operate. Furthermore, the INVEOR isn't just suited to simple frequency control, but also complex automation tasks. With its robust and compact die-cast cabinet and its very good resistance to temperature and vibration, the INVEOR makes light work of any drive task, even in tough environments. It's yet another illustration of the quality offensive thinking of KOSTAL Industrial Electronics.

"Smart connections." – That pays off.





KOSTAL Industrie Elektrik GmbH (KOSTAL Industrial Electronics) Lange Eck 11 58099 Hagen Germany

Phone: +49 2331 8040-4800 Fax: +49 2331 8040-4811 info-industrie@kostal.com www.kostal.com/industrie