



## miControl® informs:

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### **The right drive technology for any challenge**

In today's edition of our Info sheet, **Mike Rothe, Plant Manager at miControl**, informs us:

The products we offer are characterized by a very compact design. This is made possible by an energy loss optimized concept, which was pursued during the development.

Despite the small installation space, all properties in terms of durability, safety and networkability are ensured.



The basic variant is the B-Series. The E- and F- Product Series build on the B-Series. In principle, products from all series can control DC and BLDC motors and, in some cases, linear motors. A large number of the drive controllers are also available as UL-certified variants. All variants impress with their power reserves and are also available as high current (HC) variants.

The software offers optimization fields, such as positioning, current and speed control and uses the CAN-BUS as a standard communication interface. Another advantage of our products is the extensive programmability. This makes it possible to minimize the bus traffic load by decentralizing the control system. Also the necessity of the employment of a SPS control, can be omitted. Thus the applications can be realized cost-optimized.

In the following, we present the three product series that build on each other.

Our team kindly supports you in all detail questions.

#### **Die B-Series - Basic**

The B-Series, the basic standard, is the volume-oriented block commutated variant with a wide range of functions and a bandwidth that extends from 15 A to 50 A. In this product series, the field modules communicate with each other via CAN-BUS. In addition, multi-axis control is possible. Positioning control is implemented in this series with Hall sensors as feedback encoders.

## The E-Series - **Extended**

The E-Series offers the largest variety of models. Both the hardware and the software are significantly more extensive than in the B-Series. For example, the E-Series features interpolation, MODULO positioning and brake management. Ethercat and Profinet are available here as additional communication interfaces. Optionally, various encoder systems such as SIN/COS signal evaluation, magnetic sensor and incremental encoder can be selected. The bandwidth of the output power ranges up to 160 A.

## The F-Series - **FOC**

The F-Series, the premium product, additionally offers vector control and optionally various safety functions such as STO compared to the B- and E-Series. Furthermore, the F-Series optionally offers a BiSS-C and SSI interface for absolute encoder systems. The output power range here reaches up to 225 A. The F-Series thus rounds off the miControl product range and enables drive and control solutions for highly complex technical requirements.

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