

## Drive System SD3



# Top Technology made in Germany

SIEB & MEYER was founded in 1962 and has been an internationally successful company in the field of industrial electronics since then. With 210 employees worldwide today, we develop and manufacture a broad spectrum of CNC and drive technology products. Our product range includes controllers for the machine construction and automation technology, servo amplifiers for various drives, frequency converters for high-speed applications and feed-in technology for renewable energy. Concentration on our core competence results in a worldwide leading position for controllers in the field of PCB drilling and routing machines. Close cooperation with our customers from the development up to the troublefree operation of our products is the basis of our quality philosophy. Highly qualified engineering teams and a modern manufacturing process lead to a maximum amount of innovations and flexibility in serving our customers. Worldwide service and customeroriented trainings are guaranteed with our headquarters in Lueneburg and our subsidiaries.

# Drive System SD3 with Open System Architecture

With the drive platform SD3 SIEB & MEYER offers a solution for complex drive tasks, e.g. for high-dynamic positioning applications or fastening and press applications operated by servo motors. Beside an open system architecture for almost all application-oriented control, drive and visualization tasks, the SD3 user benefits from the broad spectrum of additional function modules.

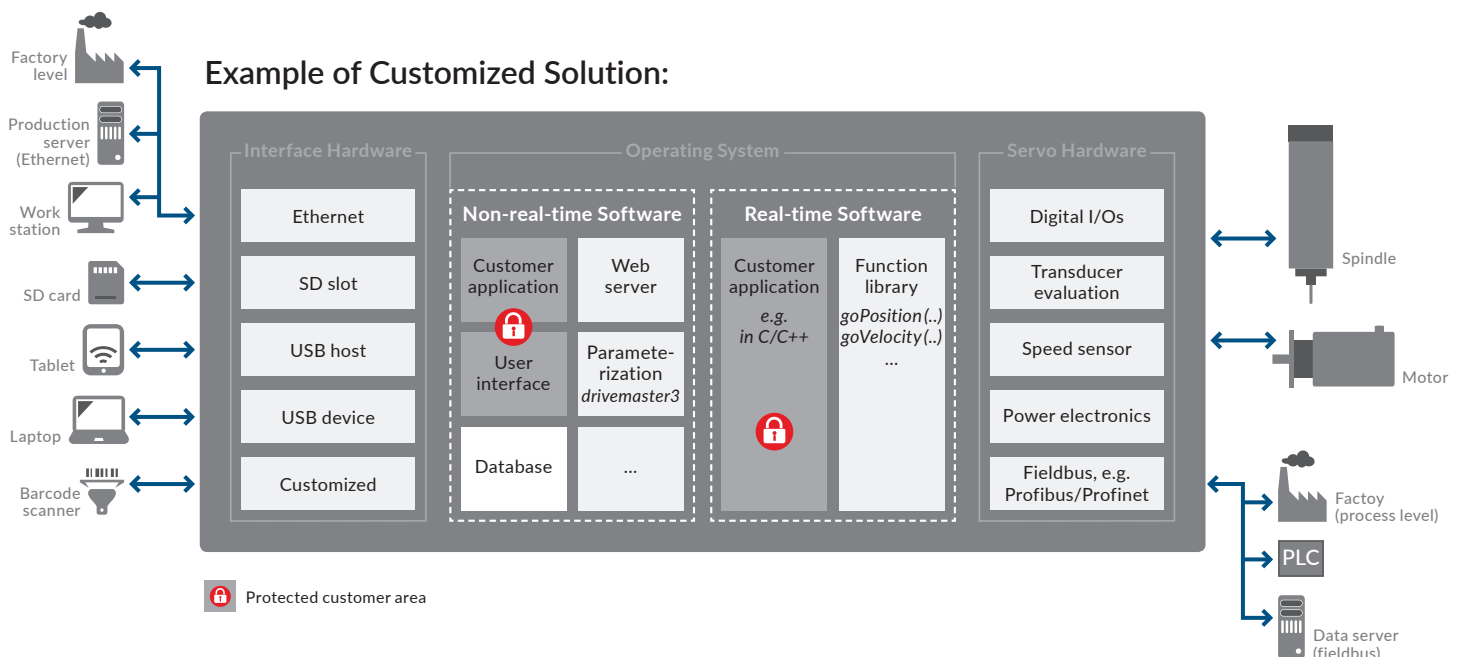
## Know-how and Advantage over Competitors

Drive amplifiers are often used to realize machining processes that require most of the know-how for the positioning profile and the evaluation of the process data. The drive platform SD3 by SIEB & MEYER offers the customers an individual solution including a protected application area. By means of the supplied function blocks the customer can focus on his core competence – the application programming relevant for the process.

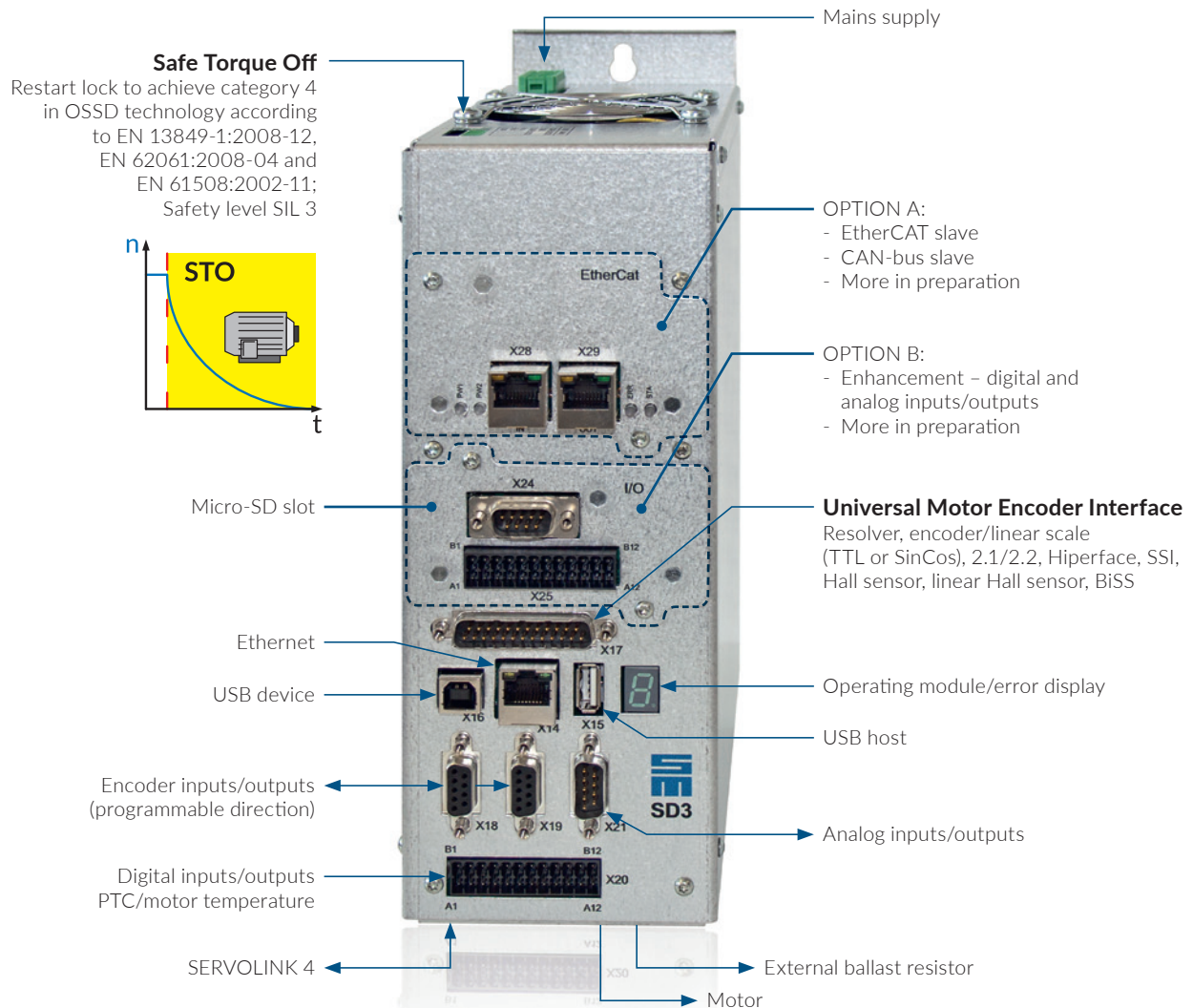
This way the customer can distinguish himself from the competition. The task sharing during the development process results in a faster “time to market”. SD3 is equipped with an open operating system that allows running other functions and programs of the customer at the same time. These are, for example, user interface, statistics, camera integration, communication and data storage. An operator panel can be connected directly via USB. This way an optimal visualization of the processes and a self-explanatory user interface can be created.

## IoT Ready

By integrating an OPC-UA server SD3 offers a future-oriented platform that supports topics like Industry 4.0 or IoT.



## The Interfaces of SD3



Supported by SIEB & MEYER

**SD3**

Customer Know-how

**Software:** operating system, web server, user interface, ...

**Data interface:** Ethernet, USB host and device, ...

**Fieldbus systems:** EtherCAT, CAN bus, ...

**Motor feedback systems:** EnDat 2.2, resolver, BiSS, ...

Power electronics up to 250 kVA feasible,  
cooling via water, air, ...

**PLC (option):** IEC 61131

**Application:** C/C++, ...

**Function library:** customized functions,  
motion control, ...

**Drive functions:** Servo/positioning, high speed sensorless, ...

**Power electronics:** Upon request





## Technical Specifications of SD3

Device type	Rated power <sup>1)</sup>	Rated current	Peak current/ time	Max. output voltage <sup>1)</sup>	H x W x D	Weight	Cooling
Compact devices – 1 x 110...230 VAC supply voltage							
03631400DC	1.5 kVA	10 Arms	14 Arms/5 s	3 x 200 VAC	252 x 90 x 195	2.5 kg	Air
03631400EC	1.5 kVA	10 Arms	28 Arms/2 s	3 x 200 VAC	252 x 90 x 195	2.5 kg	Air
Compact devices – (3)1 x 110...230 VAC supply voltage							
03631490EC <sup>3)</sup>	3.8 kVA (6.9 kVA) <sup>2)</sup>	20 Arms	28 Arms/0.4 s	3 x 200 VAC	279 x 90 x 236	3.5 kg	Air
03631490IC <sup>3)</sup>	3.8 kVA (6.9 kVA) <sup>2)</sup>	20 Arms	56 Arms/0.4 s	3 x 200 VAC	279 x 90 x 236	3.5 kg	Air
Compact devices – 3 x 200...480 VAC supply voltage							
03631490EF <sup>3)</sup>	9.7 kVA	14 Arms	28 Arms/0.4 s	3 x 410 VAC	279 x 90 x 236	3.9 kg	Air
03631490IF <sup>3)</sup>	9.7 kVA	14 Arms	56 Arms/0.4 s	3 x 410 VAC	279 x 90 x 236	3.9 kg	Air
03631450EF <sup>4)</sup>	15.9 kVA	23 Arms	28.3 Arms/5 s	3 x 410 VAC	390 x 181 x 178	7.8 kg	Air
03631450IF <sup>4)</sup>	20.8 kVA	30 Arms	56.6 Arms/2 s	3 x 410 VAC	390 x 181 x 178	7.8 kg	Air
03631460IF <sup>4)</sup>	24.2 kVA	35 Arms	56.6 Arms/5 s	3 x 410 VAC	460 x 190 x 220	13.7 kg	Air
03631460LF <sup>4)</sup>	30.5 kVA	44 Arms	70.7 Arms/5 s	3 x 410 VAC	460 x 190 x 220	13.7 kg	Air
03631480MF <sup>4)</sup>	55.4 kVA	80 Arms	113 Arms/3 s	3 x 410 VAC	429 x 272 x 265	19 kg	Air
03631480OF <sup>4)</sup>	55.4 kVA	80 Arms	113 Arms/3 s	3 x 410 VAC	429 x 200 x 262	15 kg	Water

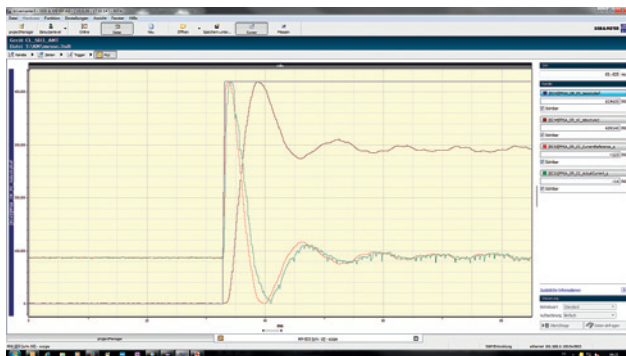
1) Rated power and max. output voltage for mains voltage/supply voltage (in bold)

2) Output at three-phase mains

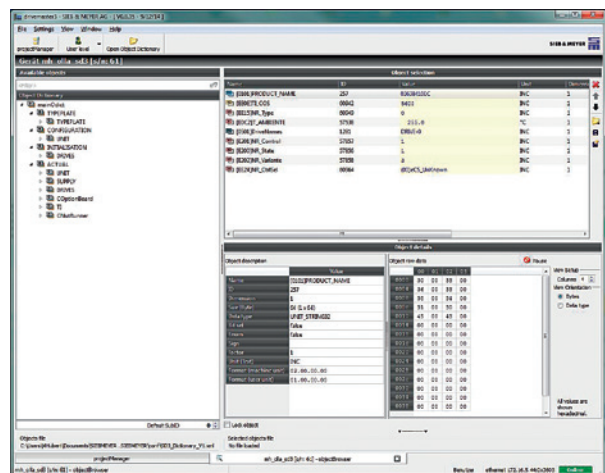
3) NRTL certified

4) Devices in preparation

## Software for Initial Operation and Parameterization: *drivemaster3*



The oscilloscope function allows optimization of the axes in the machine via the drive-setup-tool without additional measuring equipment.



The clear design of the software allows intuitive parameterization. The „Parameter-Wizard“ guides the user step-by-step through the system configuration and allows intuitive setup of the device via help messages and comments.



- CNC Controllers
- Drive Electronics
- Feed-in Technology

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