



Drive-based solutions for every need. SB6 drive controllers

Flexibility meets functionality.

Are you looking for a powerful drive controller with excellent control performance? One that can be configured flexibly? For individual solutions?

With its modular interface concept, the new SB6 drive controller enables extremely versatile system designs. It's ideal for mechanical engineers who need to react quickly to changing customer requirements.

Whether CiA 402 or PROFIdrive® ...

As a stand-alone device with an integrated power supply, it is primarily designed for drive-based motion tasks. The Ethernet-based EtherCAT® and PROFINET® fieldbus systems are available as firmware-based variants. With the CiA 402 or PROFIdrive® device profiles, the SB6 can be seamlessly integrated into drive controller- or controller-based motion solutions.

A variety of possible combinations.

SB6 is available as a single-axis controller in three sizes with a nominal output current of up to 32 A. It is suitable for machines with up to four axes and low to medium power. Both linear and rotational synchronous servo motors and Lean motors can be controlled.



Certified safety to SIL3, PL e.

The drive controller can also be extended by the safety standards STO via terminals, STO and SS1 via Fail Safe over EtherCAT (FSoE) and PROFIsafe®. In combination with the SX6 safety module, the SB6 is suitable for safety-relevant applications up to SIL 3, PL e (category 4) in accordance with DIN 61800-5-2 and DIN EN ISO 13849-1.

System tests are performed continuously during operation, eliminating the need for cyclical function tests that require documentation. The safety control uses FSoE within EtherCAT-based automation systems.

Compact construction, flexible design.

The new controller is particularly impressive due to its compact dimensions. It fits into control cabinets with installation depths as low as 210 millimeters. The SB6 is also available with an optional operating unit consisting of a text display and buttons.

Simple commissioning.

The integrated SD card function enables fast and automated commissioning, making it easy to transfer configurations.



„We placed a lot of importance on the fact that users have an open choice of controller.“

– Matthias Meyering, Technical Product Manager, STÖBER

The benefits at a glance.

- Wide range of configuration options.
- Modular interface concept.
- Excellent control performance.
- Safety standards STO via terminals, STO and SS1 using FSoE or PROFIsafe®.
- Extended safety functions up to SIL 3, PL e, Category 4 via FSoE
- Perfect motion control via CiA 402 and PROFIdrive®.
- One Cable Solution with EnDat® 3.
- Compact and operable via panel.
- Ideal for controlling synchronous servo and Lean motors.

