



ServoOne - the right performance at all times

The ServoOne servo controller family from LTi DRIVES with rated currents from 2 to 450 A, always offers the best system for every power range.

The ServoOne single-axis system with currents of 4 to 450 A is even available with different cooling systems. It is on hand both as an "air cooled" and a "liquid cooled" version. In the latter, the heat losses from the motor controller are dissipated directly out of the control cabinet. This cuts operating costs, thanks to the lower power consumption, when the different recooling devices - the control cabinet's climate control system and the water recoler - are included in the comparison.

The ServoOne junior, optimised for the 2 to 6.5 A range, bears all the family characteristics. It also benefits from a particularly compact design.

Comprising DC-powered axial modules of between 4 and 170 amperes, as well as specially adapted supply modules with sinusoidal mains feedback energy recovery, the ServoOne multi-axis system offers a high degree of competence and flexibility. A constantly regulated intermediate circuit (link) voltage ensures independence from the different mains voltages found worldwide. Excess kinetic braking energy is converted into electrical energy and fed back in sinusoidal form into the supply mains, which helps the environment and slashes costs. Alternatively, DC supply from the DC link voltage circuit from a ServoOne single-axis controller represents a cost-effective supply solution.

Full functional compatibility and handling within the entire ServoOne family is guaranteed at all times. The sophisticated control system for very varied motor systems represents the core of the software. Specifically designed for high precision and dynamic-specific movements, extensive pre-control structures and functions such as anti-cogging, and for cogging and friction torque compensation, as well as spindle error correction to compensate for mechanical deficiencies, it leaves no questions unanswered.

Of course, ServoOne also offers an abundance of axis or control-guided motion control functions. These are integrated into the process flow by the latest communication interfaces. Fast, highly synchronous multi-axis movements are made via EtherCAT, SERCOS III, PROFINET or VARAN Ethernet bus systems. In addition, the tried and tested SERCOS II, CANopen and PROFIBUS-DP field buses ensure integration into very different automation solutions.

Of course, integrated security technology plays an important role in the ServoOne family. In addition to the STO-security functions available in the basic version, an integrated programmable security control is available for the single and multi-axis system in accordance with EN 61800-5-2. Safety switching elements can also be connected and evaluated. The controls are certified for SIL 3 in accordance with EN 62061, and for PL e, as per EN ISO 13849-1.

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