KEBA

Automation by innovation.

Single- and Multi-axis system for drive solutions

ServoOne

Hardware		AC SO junior	AC SO 4-450 A	DC SO 4-450 A	PSU 26-360 kW
Performance data					
Mains voltage		1/3 x 230 V AC 3 x 400 - 480 V AC	1 x 230 V AC 3 x 230 - 480 V AC	565 - 770 V DC	3 x 400 - 480 V AC
Rated current at 1 x 230 V AC		3 - 8 A (1/3 x 230 V)	4 A (1 x 230 V)	-	-
Rated current at 3 x 400 V AC		2 - 16 A	4 - 450 A	-	-
Rated current at 565 V DC		-	-	4 - 450 A	-
DC power		-	-	-	26 - 360 kW
Overload factor		3.0	1.5 - 2.0	1.5 - 3.0	1.0 - 2.0
Rotating field frequency		400 Hz	400 Hz 1600 Hz optional	400 Hz 1600 Hz optional	-
Power stage switching frequency		4, 8, 16 kHz	2, 4, 8, 12, 16 kHz	4, 8, 12, 16 kHz	4, 8, 12 kHz
Sinusoidal regenerative power supply		-	-	-	●
Braking chopper electronics integrated		●	●	-	●
Braking resistor, integrated		○	○	-	-
Safety systems					
STO (Safe Torque Off) function		●	● Up to SO84.170	● Up to SO84.170	-
Integrated safety control		-	○	○	-
Control hardware					
Inputs analog (±10 V DC, 12-bit)		2	2	2	2
Outputs analog (±10 V DC, 2 x 12-bit)		-	○	○	-
Inputs/outputs digital - standard of which touchprobe inputs		8/3 2	8/3 2	8/3 2	8/3 -
Digital Input/Output expansion (4 inputs/8 outputs)		○	○[2)]	○[2)]	-
Relay		1	1	1	1
Motor temperature monitoring		● PTC, KTY, Klixon	● PTC, NTC, KTY, Klixon	● PTC, NTC, KTY, Klixon	-
MMC memory card		-	●	●	●
Encoder systems					
Encoder channel 1	Resolver	●	●	●	-
Encoder channel 2	SinCos encoder with NP, SSI, EnDat or HIPERFACE®	●	●	●	-
	SSI encoder	●	●	●	-
	EnDat encoder digital	●	●	●	-
	TTL encoder	●	●	●	-
Field bus systems					
CANopen		○	○	○	○
PROFIBUS-DPV1		○	○	○	○
Sercos II		○	○	○	○
Sercos III		○	○	○	○
EtherCAT		○	○	○	○
PROFINET IRT		○	○	○	-
Technology					
Second SinCos encoder	SinCos encoder with NP, SSI, EnDat	○	○	○	-
	SSI encoder	○	○	○	-
	EnDat encoder digital	○	○	○	-
	TTL encoder	○	○	○	-
Single-cable system with HIPERFACE DSL encoders		○	-	-	-
TTL encoder simulation		○	○	○	-
SSI encoder simulation		-	○	○	-
TTL master		○	○	○	-
TTL encoder with commutation signals		○	○	○	-
Bidirectional axis cross-communication (TWINsync, max. 2 axes)		-	○	○	-
Cooling methods					
Air cooling		●	● Up to SO84.170	● Up to SO84.170	● Up to SO84.170.S
Liquid cooling		-	● From SO84.016	● From SO84.016	●

● Standard ○ Optional - Not available 2) In preparation

Subject to technical change without notice.

Efficiently integrated.

Always the best solution for a wide range of drive tasks.

AC-powered single-axis motion
Servo drives from 4 to 450 A with 1/3 x 230 V - 3x 480 V AC mains connection.

High-speed communication
Based on a wide variety of profile-conformable field bus interfaces (EtherCAT, Sercos II & III, PROFINET IRT, CANopen, ...).

DC-powered multi-axis systems
Servo drives from 26 to 360 kW with sinusoidally regenerative supply units.

Extensive PC software
For planning, commissioning and programming of multi-axis drive systems.

Power Supply Unit
Sinusoidally regenerative supply unit from 26 to 360 kW.

Coordinated software functions
With MotionControl functionality for any application.

High-performance motor control
For precise, dynamic movement of a wide variety of linear and rotary motor systems.

Compact size
For optimum cabinet utilisation.

Integrated functional safety
Ensures personal protection directly in the drive controller.

Flexible cooling concepts
Featuring air or fluid cooling.

iPlc to IEC 61131 integrated
Permitting rapid adaptation to the application with direct access to the drive controller peripherals.

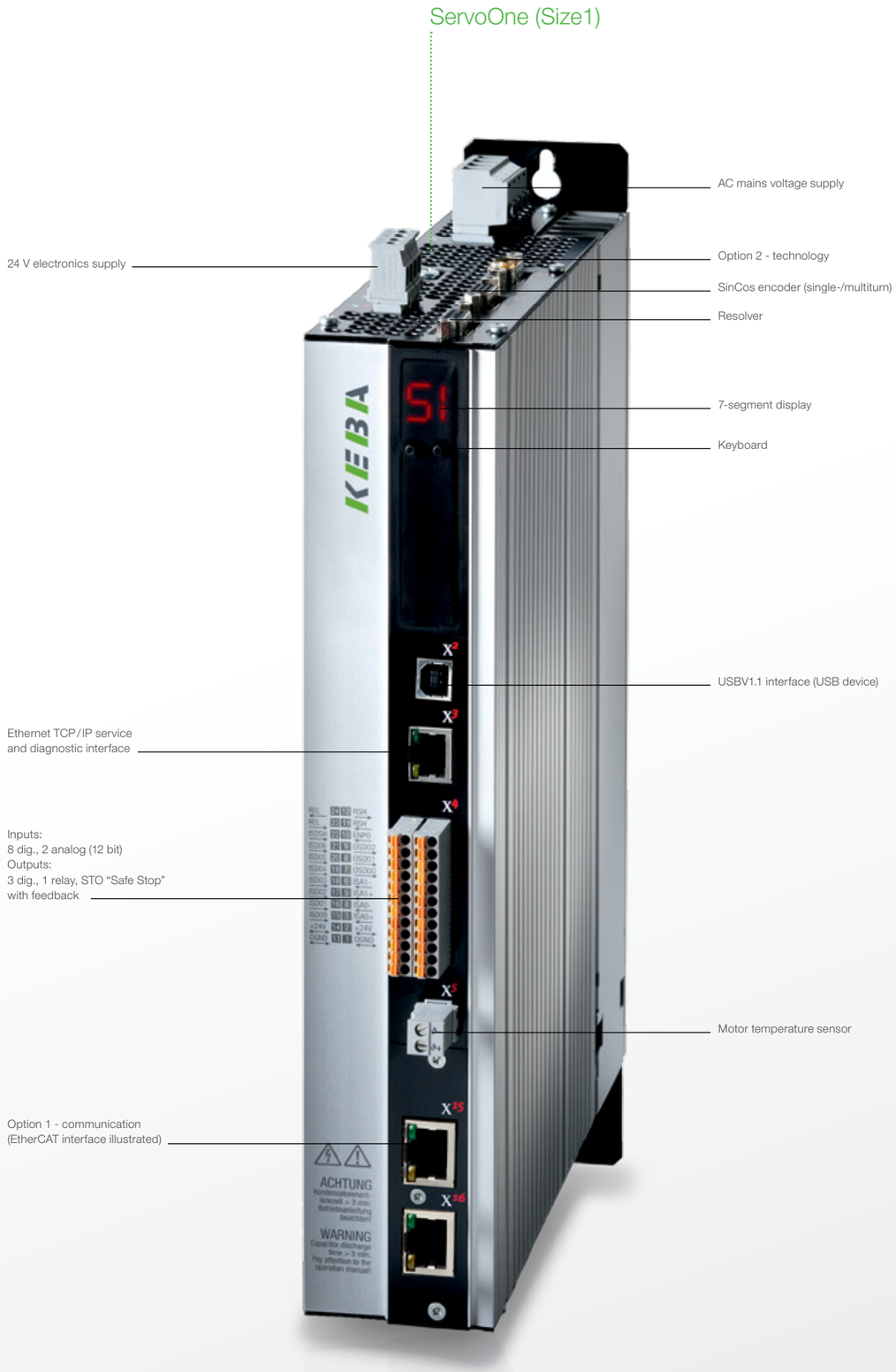
Function package HF
Field frequency up to 1600 Hz.

ServoOne.

The drive solution in the power range from 2 to 450 A.

The modularity of the ServoOne family guarantees you optimum integration into the machine process at all times.
A coordinated single-axis and energy-efficient multi-axis system meet the needs of any application across a wide power range. Whether in high-speed field bus communication with the central multi-axis machine controller or with distributed MotionControl intelligence in the drive controller – the ServoOne is a master of both. So enjoy the surprising diversity of functionality of the ServoOne, and make use of its future-proof specification for your application!

Alongside top product quality, we offer you sound, specifically targeted advice, expert commissioning support, a sophisticated, needs-oriented ordering and shipment logistics system, as well as outstanding service and diagnostic capability.



Fit for the future with KEBA.

KEBA AG is an internationally successful electronics company with headquarters in Linz/Austria and locations worldwide. For 50 years, KEBA has been developing and producing according to the claim „Automation by innovation“ innovative automation solutions of the highest quality for a wide variety of industries.

LTI Motion GmbH, a technologically leading German supplier of drive solutions, has been part of the KEBA Group since the end of 2018. Both companies have years of experience in the areas of control and safety technology as well as servo drive technology.

The bundled competencies result in complete solutions from a single source – appropriate for the respective industries.

Since the beginning of 2020, the joint appearance under the KEBA brand underlines once again the perfect complement to the portfolios, the bundling of know-how and innovative strength.

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