It’s All About Partnership.
And Choices.





ServoOne
Drive system for
safe automation solutions

KEBA®
Automation by innovation.

It’s All About Partnership.
And Choices.

Automation solutions become a success factor when they give our customers the freedom to make the most of their competitive advantage. A good relationship needs space.

The KEBA Formula

It is this unique mixture of creativity, enthusiasm, determination and enjoyment of working together that makes our employees KEBAns.



Working in agile teams provides an excellent breeding ground for encouraging the development of different talents and personalities. As part of an organisation with flat hierarchies, it is the people who work here that create a very special working atmosphere. Creating an environment in which you can really feel the innovation.

ServoOne

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

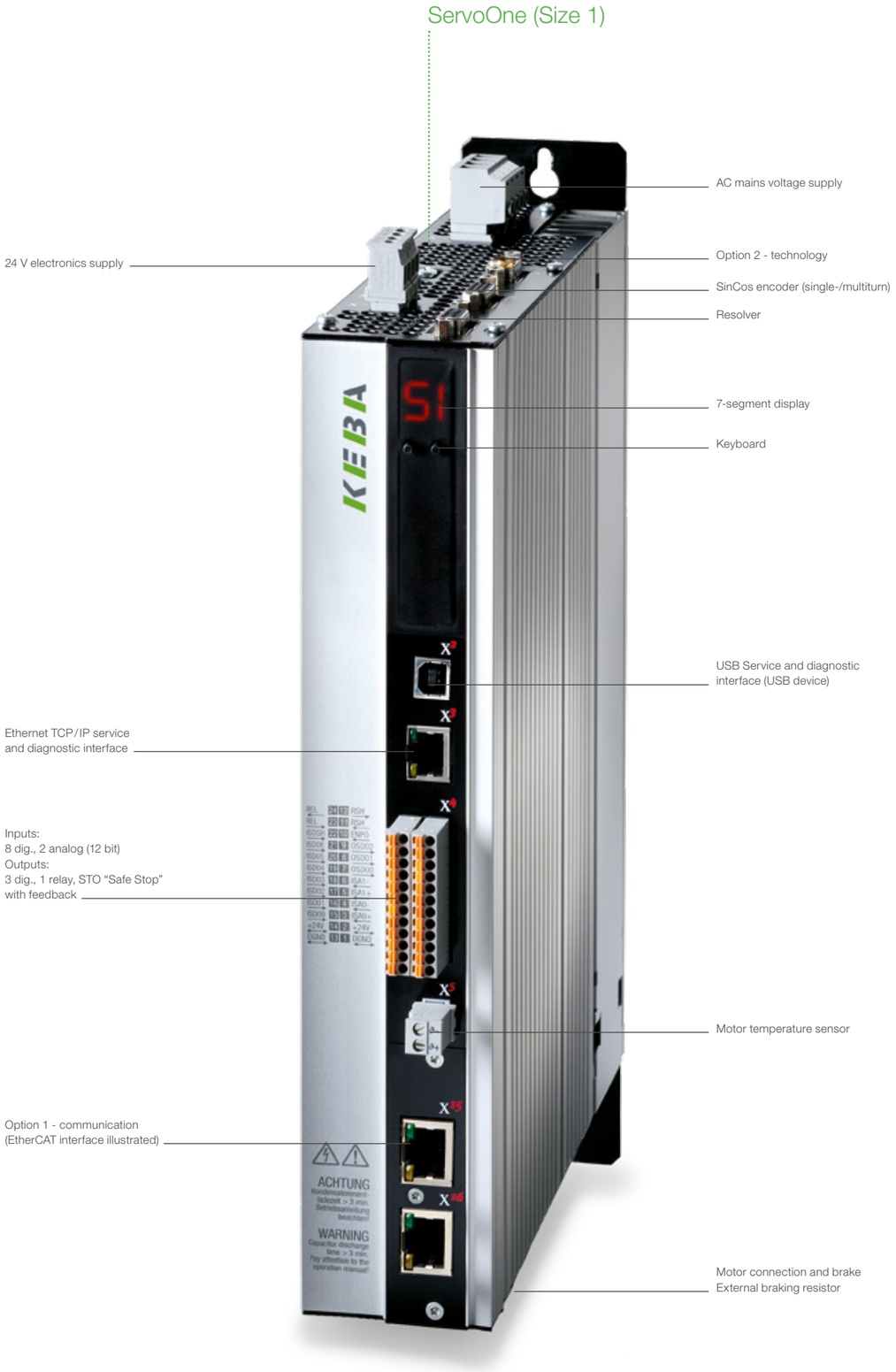
The modularity of the ServoOne family guarantees you optimum integration into the machine process at all times.

A coordinated drive 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.

Convince yourself of the diversity of functionality of the Servo One, 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.





Efficiently integrated

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

AC-powered single-axis motion
With mains connection from 1/3 x 230 V to 3 x 480 V

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

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

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

Integrated functional safety
Ensures personal protection directly in the drive controller

Coordinated software functions
With MotionControl functionality for any application

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

Compact size
For optimum cabinet utilisation

Function package HF
Motor frequency up to 1600 Hz

Flexible cooling concepts
Featuring air or fluid cooling

Technical Data

Hardware		AC SO junior	AC SO 4–450 A
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
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
Overload factor		3.0	1.5 - 2.0
Rotating field frequency		400 Hz	400 Hz 1600 Hz optional
Power stage switching frequency		4, 8, 16 kHz	2, 4, 8, 12, 16 kHz
Braking chopper electronics integrated		●	●
Braking resistor, integrated		O	O
Safety systems			
STO (Safe Torque Off) function		●	● From SO84.170
Integrated safety control		-	O
Control hardware			
Inputs analog (±10 V DC, 12-bit)		2	2
Outputs analog (±10 V DC, 2 x 12-bit)		-	O
Inputs/outputs digital - standard of which touchprobe inputs		8/3 2	8/3 2
Relay		1	1
Motor temperature monitoring		● PTC, 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		O	O
PROFIBUS-DPV1		O	O
Sercos III		O	O
EtherCAT		O	O
PROFINET IRT		O	O
Powerlink		-	O 1)
Technology			
Second SinCos encoder	SinCos encoder with NP, SSI, EnDat	O	O
	SSI encoder	O	O
	EnDat encoder digital	O	O
	TTL encoder	O	O
Single-cable system with HIPERFACE DSL encoders		O	-
TTL encoder simulation		O	O
SSI encoder simulation		-	O
TTL master		O	O
Bidirectional axis cross-communication (TWINsync, max. 2 axes)		-	O
Function packages			
Hydraulics		-	●
HF (up to 1.600 Hz)		-	● Up to SO84.170
iLPC (IEC 61131-3)		●	●
Cooling methods			
Air cooling		●	● Up to SO84.170
Liquid cooling		-	● From SO84.016

● Standard O Optional - Not available 1) on request

Subject to technical change without notice.



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