COMBIVERT **S6**

COMPACT SERVO DRIVES

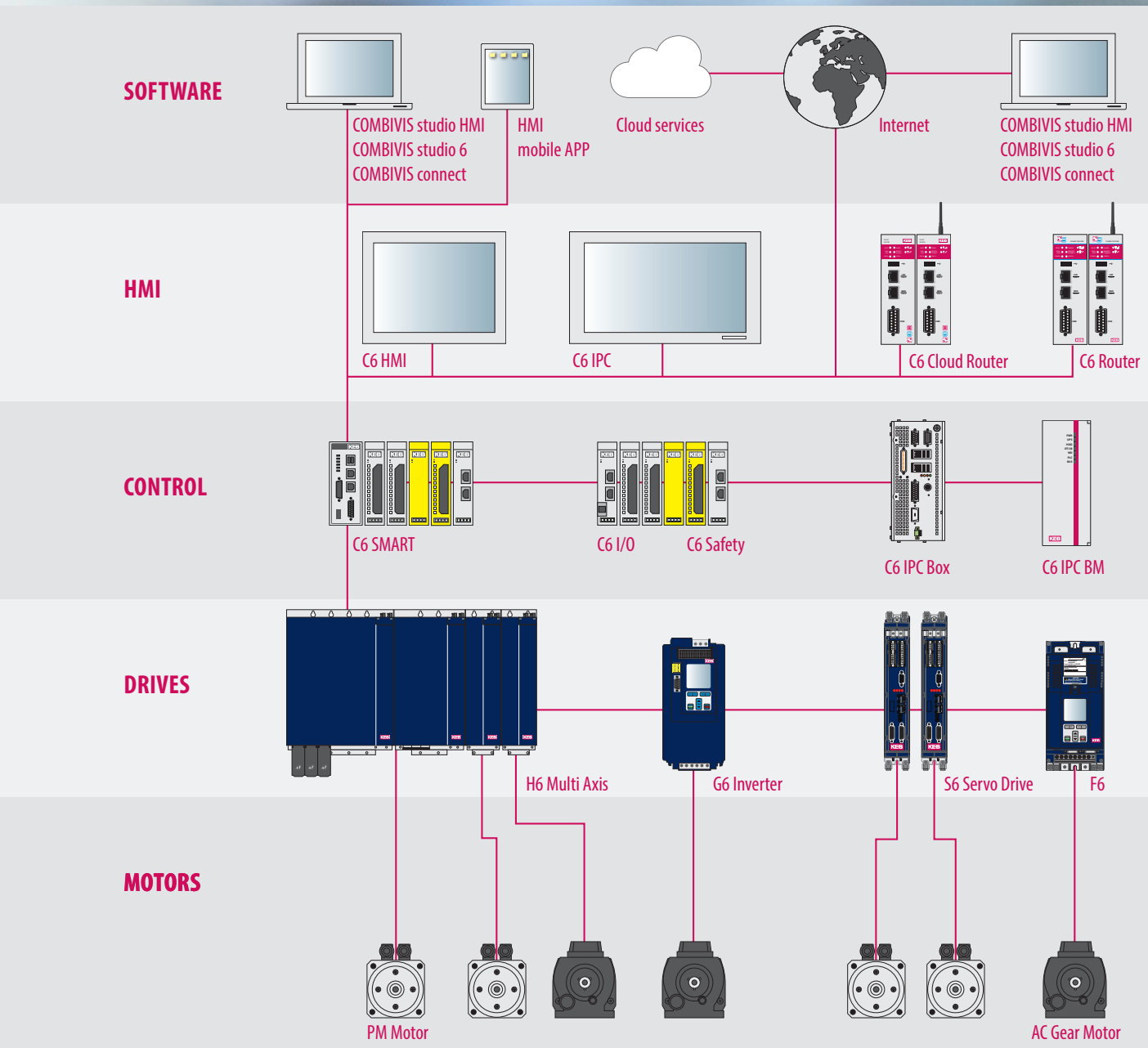
EN

CONTENT	PAGE

SYSTEM OVERVIEW

Automation **with Drive**
stands as a synonym for optimally selected combinations of control and automation solution. With the drive level at the end it is the key to successful machine concepts.

Let the following pages inspire you with regards to the diversity and performance of the COMBIVERT S6 servo system, and help you to find a solution that reliably meets your requirements.



COMBIVERT **S6** - BENEFITS AT A GLANCE

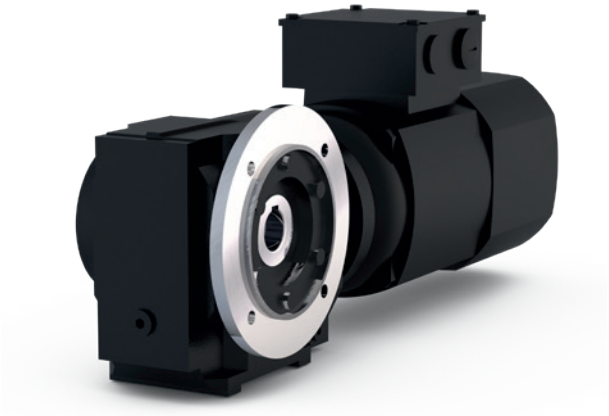
OPTIMALLY SELECTED COMPONENTS

The COMBIVERT S6 servo system adds a compact, flexible and powerful drive module to the KEB product portfolio for highly dynamic servo applications. The optimally selected KEB components are the key to this successful drive concept.

At the heart, the innovative S6 servo drive is offered in an attractive book-style format and offers real-time performance. The S6 drives can be matched with the robust DL3 servo motors which are available in five sizes. Additionally, the DL3 servo motors may be paired with planetary gearheads with low rotational backlash.

The TA series combines in direct connection the servo motor and industrial gears in the designs helical, helical bevel, helical worm and flat. You can now design the complete servo drive system that is best suited to your application.

The package is made complete with pre-fabricated motor and encoder cables, which create the ideal conditions for easy installation, quick start-up and problem-free operation. For the upper power range the new COMBIVERT F6 drive controller completes the drive line with 1:1 features up to 400 kW.



POSSIBLE SELECTION: S6 SERVODRIVE AVAILABLE WITH OR WITHOUT INTEGRATED EMC FILTER

- 2.6 ... 16.5 A in two enclosures with six electrical sizes
- Book format for space-saving control cabinet configuration
- Direct connection to the mains for 230 V and 400-480 V grids, DC-input is also available, 260 ... 375 / 750 V
- Low leakage current mains filter (<5 mA) integrated, optional without filter
- High overload for excellent dynamics (250% / 3 s, 200% / 60 s)

HIGHLIGHTS

- Uncompromising integration, highest perfomance
- Modern realtime communication standards
- Integrated functional safety
- Particular compact size
- Modular design, flexible cooling systems

DRIVE BASED SAFETY

- Integrated Safety functionality
- Basic function STO in Compact version
- Additional modular High level Safety in Application version
- Encoderless safety in version PRO

REAL-TIME COMMUNICATION

- Real-time Ethernet-based interfaces
- CAN

or simply serial:

- RS232 / 485 for diagnostics or display

ANALOG & DIGITAL I / O

supports actual machine concepts with:

- 8 digital and 2 analog inputs
- 2 digital and 1 relay output
- 1 analog output 0 ... 10 V

ALL IN ONE - UNIVERSAL MOTOR OPERATIONS

- Control for asynchronous, synchronous, IPM or synchronous reluctance motors
- Motor operation with encoder feedback or encoderless ASCL / SCL for precise speed control
- Motor temperature monitoring with PTC, KTY or PT1000 sensors
- Two-channel multi-encoder interface
- Integrated brake transistor
- Integrated brake control and brake supply

COMBIVERT **S6** - VERSIONS

MAINS CONNECTIONS
with pluggable terminals

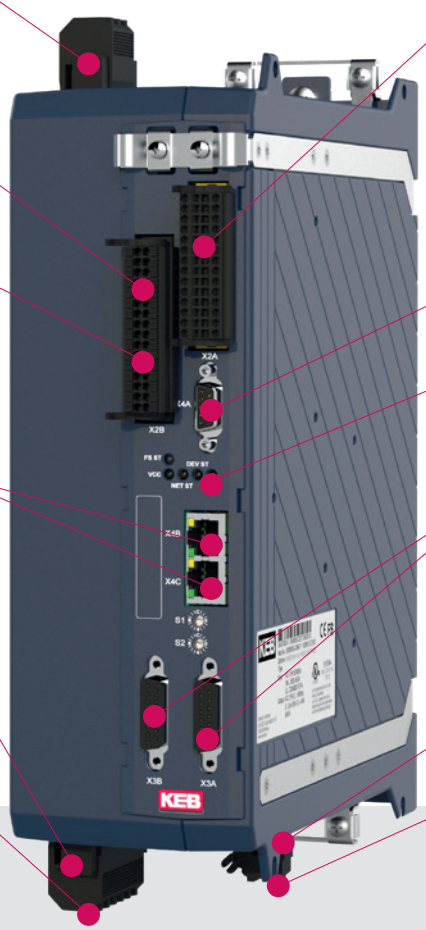
FUNCTIONAL SAFETY

INTERFACE
CAN interface

REALTIME ETHERNET

DC SUPPLY TERMINALS
and braking resistor

MOTOR TERMINALS



I / O
8 digital inputs
2 digital outputs
1 relay
2 analog inputs
1 analog output
24V DC supply

DIAGNOSTIC INTERFACE

STATUS LEDS

MULTI ENCODER INTERFACES
Resolver, EnDAT, Hiperface, BISS, SSI,
Incremental HTL / TTL,
Incremental output

KTY / PTC / PT1000 EVALUATION

BRAKE CONTROL 24 V / 2 A

EtherCAT® Safety over EtherCAT® VARAN CANopen®

HIGHLIGHTS

- Compact and flexible servo system
- Highest performance in torque, speed and position control
- Uncompromising integration
- User-friendly
- Scalable safety functions...

COMPACT
HIGHLY INTEGRATED AND ECONOMICAL

STO

REALTIME ETHERNET

ETHERCAT OR VARAN

Communication interface

CAN

DIAGNOSTIC RS232 / 485

APPLICATION
MODULAR AND FLEXIBLE

STO, SBC and speed / position related safety functions

REALTIME ETHERNET

ETHERCAT
PROFINET
POWERLINK
ETHERNET / IP

Communication interface

CAN

DIAGNOSTIC RS232 / 485

PRO
ENCODERLESS SAFETY

STO, SBC and speed related safety functions without encoder feedback

REALTIME ETHERNET

ETHERCAT

Communication interface

CAN

DIAGNOSTIC RS232 / 485

PROFINET®

ETHERNET POWERLINK

EtherNet/IP®

HIGHLIGHTS

- Brake handling
- Power-off
- DC-brake
- PID controller
- Round table function
- Reciepe management
- Multi motor handling
- Anti cogging
- Management liquide cooling
- Etc.

SAFETY FUNCTIONS IN THE DRIVE

BASIS FOR SAFETY

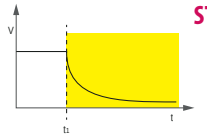
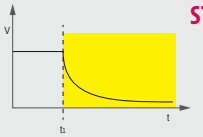
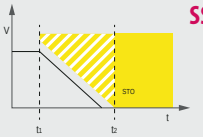
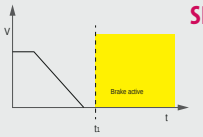
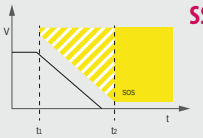
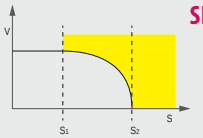
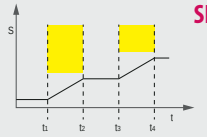
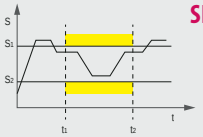
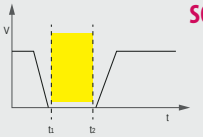
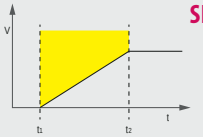
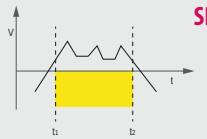
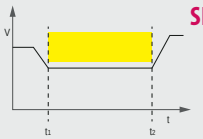
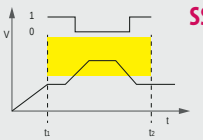
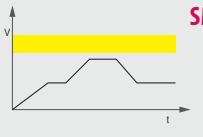
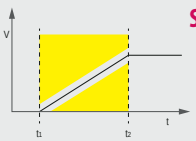
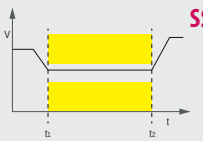
COMPACT

In the Compact version, the COMBIVERT F6 and S6 drive controllers are equipped with Safe-Torque-Off (STO).

SAFETY FUNCTIONS WITH SPEED AND POSITION MONITORING

APPLICATION

The device variant Application is available in two versions. In addition to STO, Module 1 adds safe brake control (SBC) which provides a safe 24 V supply for the brakes.
Module 3 offers safe motion functionality according to IEC 61800-5-2 through speed and position detection using encoders.
The error reaction time is shortened and costs are reduced by reducing the number of separate protective devices. Module 3 also offers the option of controlling all available safety functions and limit values via Safety over EtherCAT (FSoE).

COMPACT	APPLICATION		
on board	Module 1	Module 3	Safety over EtherCAT
STO  Safe Torque OFF	STO  Safe Torque OFF	SS1  Safe Stop 1	
	SBC  Safe Brake Control	SS2  Safe Stop 2	SEL  Safe Emergency Limit
SLI  Safely-Limited Increment	SLP  Safely-Limited Position	SOS  Safe Operating Stop	SLA  Safely-Limited Acceleration
SDI  Safe Direction	SLS  Safely-Limited Speed	SSM  Safe Speed Monitor	SMS  Safe Maximum Speed
		SAR  Safe Acceleration Range	SSR  Safe Speed Range

SENSORLESS SAFETY FUNCTIONS

PRO

The Pro device variant of the COMBIVERT F6 and S6 drive controllers offers advanced safety functions without having to use a safety encoder. The device determines the safe velocity parameters from the pulse width modulation (PWM) of the motor supply.

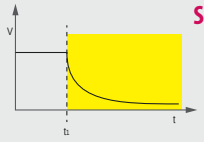
In addition to STO, Module 5 is equipped with a safe brake control (SBC), which provides a safe 24 V supply for braking operation as well as a monitoring of the switching status of the brake via microswitch evaluation.

Module 5 also offers the option of controlling all available safety functions via Safety over EtherCAT (FSoE).

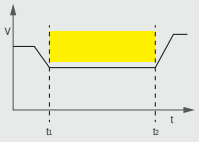
PRO

Module 5

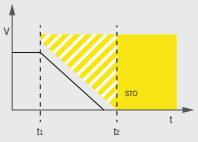
Safety over EtherCAT®



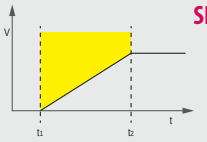
Safe Torque OFF



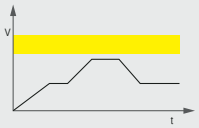
Safely-Limited Speed



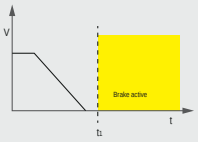
Safe Stop 1



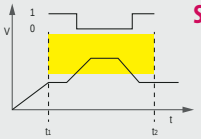
Safely-Limited Acceleration



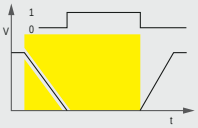
Safe Maximum Speed



Safe Brake Control



Safe Speed Monitor



Safe Door-Lock Control

WHY USE DRIVE-BASED SAFETY (SAFE MOTION)?

- Less wiring - remove contactors and other traditional safety components
- Fast reaction - direct handling inside the drive
- Easy to operate - up to 8 different safety setups per function
- Cost savings compared to traditional safety solution

ELECTRICAL PROPERTIES

HOUSING			**2**					**4**		
Device size			07	09	07	09	10	12	13	14
Mains phases			1		3					
Output rated current	I_N	[A]	**4**	**7**	**2.6**	**4.1**	**5.8**	**9.5**	**12.0**	**16.5**
Short maximum current (3 s / 60 s) [1]	J_{SMC}	[%]	200 / 150		250 / 200					180 / 150
Output rated power *	S_A	[kVA]	1.8	2.8	1.8	2.8	4	6.6	8.3	11.4
Typical rated motor power	P_{mot}	[kW]	0.75	1.5	0.75	1.5	2.2	4.0	5.5	7.5
			230 V		400 V					
Max. current 0 Hz / cutoff frequency at fs = 4 kHz [1]	I_0	[%]	175 / 240	157 / 240	215 / 300	193 / 300	155 / 284	273 / 300	283 / 300	133 / 216
Max. current 0 Hz / cutoff frequency at fs = 8 kHz [1]	I_0	[%]	150 / 240	114 / 228	162 / 292	132 / 234	103 / 206	189 / 294	183 / 293	109 / 212
Max. current 0 Hz / cutoff frequency at fs = 16 kHz [1]	I_0	[%]	100 / 200	85 / 200	92 / 200	73 / 146	50 / 120	105 / 189	116 / 175	60 / 127
Cutoff frequency point	f_d	[Hz]	6							
Input rated current	I_{IN}	[A]	8	14	3.6	6	8	13	17	21
Max. permissible mains fuses	Typ gG	[A]	15	20	6	10	10	15	20	25
Rated switching frequency	f_{SN}	[kHz]	8							4
Max. switching frequency	f_{Smax}	[kHz]	16							
Rated losses	P_D	[W]	60	95	50	57	80	155	185	250
Standby losses	P_{Dnop}	[W]	8							
Min. brake resistance	R_{Bmin}	[Ω]	56	33	160	110	82	33	25	25
Max. braking current	I_{Bmax}	[A]	7.5	12.7	5.5	8	11	28	34	34
Input rated voltage (AC)	U_N	[V]	1-phase 230		3-phase 400 (UL: 480)					
Input voltage range (AC) [2]	U_{in}	[V]	184 ... 265		184 ... 550 ±0					
Input voltage range (DC)	U_{indc}	[V]	260 ... 375		260 ... 750 ±0					
Mains frequency	f_N	[Hz]	50 / 60		50 / 60 ±2					
Output voltage	U_A	[V]	3 x 0 ... U_{IN}							
Output frequency	f_A	[Hz]	0 ... 599 optional 0 ... 2000							

* At rated voltage 400 V AC

[1] The figures relate to the output rated current I_N on a percentage basis

[2] In the case of rated voltage ≥460 V, multiply rated current with a factor of 0.86

MECHANICAL DATA, OPERATING TYPES, STANDARDS

OPERATING MODES

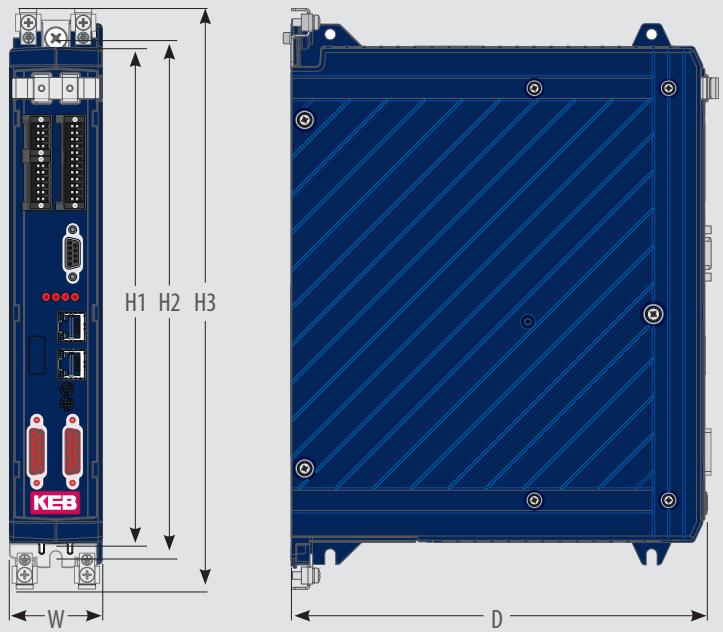
Motor control mode	**PMSM**: field-oriented with encoder, S.C.L. encoderless **IPMSM**: field-oriented with encoder, S.C.L. encoderless **SyncRM**: field-oriented with encoder, S.C.L. encoderless **ASM**: V / F, field-oriented with encoder, A.S.C.L. encoderless
Application profile	CiA 402
Control mode	Velocity Mode Cyclic Synchronous Velocity Mode Cyclic Synchronous Torque Mode Cyclic Synchronous Position Velocity Mode Profile Position Mode Homing Mode Jog Mode

GENERAL

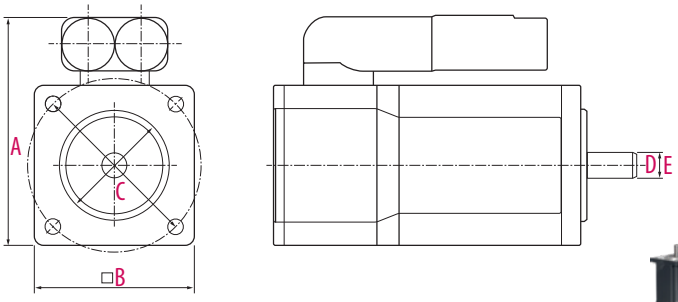
Product standard	EN 61800-2, -5-1
Power part with integrated EMC filter - EMC transient emissions	
Grid-bound disturbance	EN 61800-3, C1 - 30 m / C2 - 50 m motor cable
Emitted disturbances	EN 61000-6 -1...4, C2
Protection class	IP 20 / VBG 4
Environment	EN 60721-3-3 Operating temperature -10 ... 45 °C Storage temperature -25 ... 55 °C Humidity 3K3 - 5 ... 85% (no condensation)
Site altitude	Rated to 1000 m (1% derate per 100m above 1000m). max. 2000m above sea level.

HOUSING	2	4
H1	265	265
H2	275	275
H3	310	310
D	220	220
W	50	90

All dimensions in mm



SERVOMOTORS DYNAMIC LINE 3



0_SMH__	0.2 ... 0.5					
A_SMH__		0.5 ... 1.2				
B_SMH__			1.38 ... 3.22			
C_SMH__				2.45 ... 5.65		
D_SMH__					4.9 ... 11.4	
E_SMH__						12.8 ... 29.0

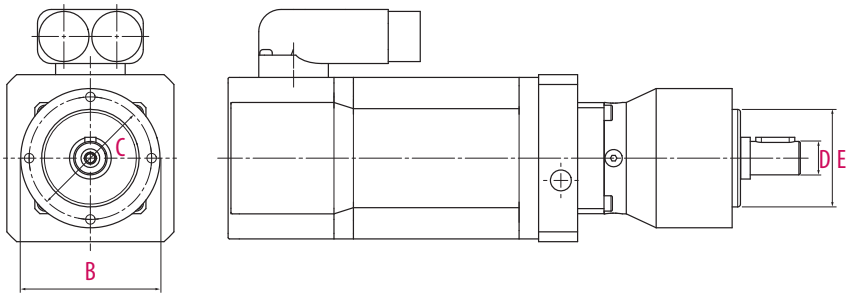
Stall torque in Nm

MOTOR	T_0 [Nm]	T_N [Nm]	U_N [V]	I_{do}/I_N [A]	N_N [min^{-1}]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	OPTION BRAKE T_n [Nm]	INERTIA JM / J_{MwBr} [kgcm^2]
01	0.2	0.18		0.76 / 0.73								0.0294 / 0.0521
02SMHF_	0.38	0.33	230	1.3 / 1.2	8000	65.4	40	46	8	30	0.6	0.0482 / 0.0709
03	0.52	0.45		1.65 / 1.3								0.0670 / 0.0897
A1	0.5	0.5		0.85								0.134 / 0.205
A2SMHF_	0.8	0.7		1.50 / 1.30	8000	82.4	58	63	9	40	0.8	0.253 / 0.324
A3	1.2	1.0		2.20 / 1.85								0.373 / 0.444
B1	1.4	1.3		1.95 / 1.90								0.462 / 0.541
B2SMHF_	2.4	2.2		2.95 / 2.75	6000	96.4	72	75	14	60	2	0.842 / 0.921
B3	3.2	2.7		4.10 / 3.60							3.5	1.22 / 1.46
C1	2.5	2.3		3.00 / 2.90	6000							1.08 / 1.74
C2SMHF_	4.1	3.7	400	4.10 / 3.80	5000	128.5	87	100	19	80	9	1.98 / 2.63
C3	5.7	4.9		5.40 / 4.75	5000							2.87 / 3.52
D1	4.9	4.4		4.75 / 4.20	5000						9	2.23 / 2.89
D2SMHF_	8.2	6.9		6.30 / 5.20	4000	145.5	104	115	24	95	9	4.06 / 4.72
D3	11.4	8.4		8.80 / 6.30	4000						13	5.88 / 7
E1	12.8	11.0		7.80 / 6.80							20	11.1 / 1.34
E2SMHF_	21.1	15.2		12.4 / 9.40	3000	183.5	142	165	32	130	20	20 / 22.3
E3	29.0	13.2		17.2 / 8.10							30	29 / 34.9

HIGHLIGHTS

- 0.2 ... 29 Nm in six frame sizes
- Low inertia–high impulse torque
- Resolver or absolute rotary encoder, HIPERFACE single or multi-turn
- High degree of total efficiency
- Lifetime lubricated
- Universal installation positions
- Robust mechanics (optional: COMBIPERM holding brake, keyway with key, IP65 shaft sealing)

PLANETARY GEAR SG PAIRED WITH DYNAMIC LINE 3:



GEAR SIZE	T_{2N} [Nm]	T_{2MAX} [Nm]	N_{MAX} [rpm]	I	BACKLASH arc_{min}	B Ø [mm]	C Ø [mm]	D Ø [mm]	E Ø [mm]	DL3-MOTOR recommended
1	5 ... 11	8 ... 17.5	5000	5 ... 40	15	50	44	12	35	A
2	15 ... 28	24 ... 45	4500		10	70	62	16	52	A B C
3	38 ... 85	61 ... 136	4000		7	90	80	22	68	A B C D
5	95 ... 115	152 ... 136	3000		7	120	108	32	90	B C D E
7	210 ... 460	336 ... 736	2800		8	155	140	40	120	C D E

SIMPLE SELECTION AND ORDERING BY SYSTEM CONFIGURATION IN COMBIVIS 6

- Output torque and speed
- Gear ratio
- Motor size

HIGHLIGHTS

- Low backlash
- High output torque
- High efficiency (97 %)
- Gear ratios i = 5 to 40
- Low audible noise
- Lifetime lubricated

SERVO GEAR MOTORS

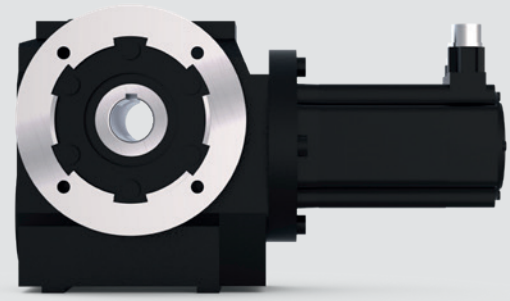
INTEGRAL SERVO DESIGN

Based on the industrial standard with AC motors the portfolio of COMBIGEAR series offers a full basket of servo gear solutions. The dynamic and efficient TA servo motors are direct connected in the first gear stage–best choice for minimum lenghts, nearly zero wear and small inertia of the gear motor system.

Flexible designs for flange-, foot-, or combined flange / foot– mounting and a wide range of options secure individual needs in the machine. Ultra-fine speed ratio range, adjustable down to speed 0, enables optimum adaptation of torque and speed on output. Life-time lubrication, high overload and low torsional backlash ensure a long service life.

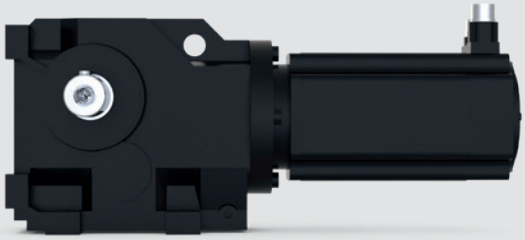
TYPE	SIZE	DESIGN	T_N [Nm]	I	TA1	TA2	TA3	TA4	TA5
G	0 ... 7	Helical gear	60 ... 4880	3.37 ... 250.97	■	■	■	■	■
F	2 ... 7	Shaft mounted helical gear	245 ... 4880	3.20 ... 274.23		■	■	■	■
K	0 ... 7	Helical bevel gear	58 ... 4880	3.38 ... 183.21	■	■	■	■	■
S	0 ... 4	Helical worm gear	55 ... 1160	5.09 ... 247.58	■	■	■	■	■

HELICAL GEAR

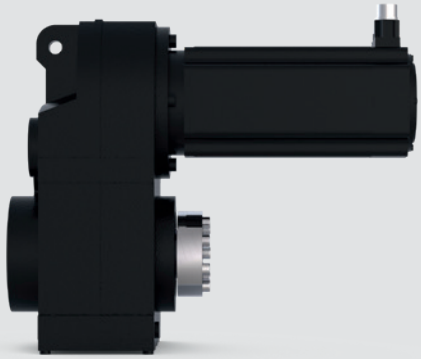


HELICAL WORM GEAR

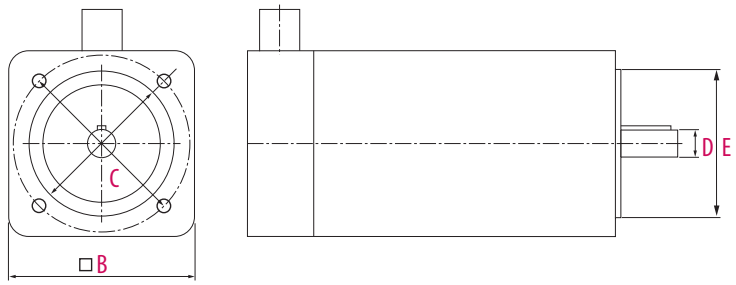
HELICAL BEVEL GEAR

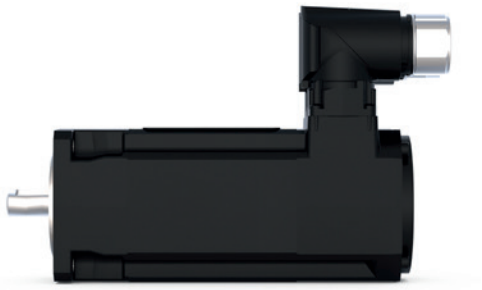


SHAFT MOUNTED HELICAL GEAR



TA SERIES





TA 1	0.5 ... 0.9				
TA 2		1.3 ... 3.1			
TA 3			2.9 ... 6.4		
TA 4				6.9 ... 11,7	
TA 5					11.5 ... 20.0

Stall torque in Nm

MOTOR	T_0 [Nm]	U_N [V]	I_{do} [A]	N_N [min^{-1}]	B [mm]	C [mm]	D [mm]	E [mm]	OPTION BRAKE T_n [Nm]	INERTIA J_M / J_{MwBr} [kgcm^2]
TA1S	0.5	400	0.95 / 0.72	6000 / 4500	58	63	9	40	2	0.14 / 0.2
TA1M	0.9		1.11 / 0.84							0.2 / 0.27
TA2S	1.3		1.6 / 1.1	6000 / 4500	75	75	11	60	2	0.39 / 0.46
TA2M	2.4		2.75 / 2							0.66 / 0.73
TA2L	3.1		3.9 / 2.8							0.93 / 0.99
TA3S	2.9		3.4 / 2.5 / 1.82	6000 / 4500 / 3000	90	100	14	80	4,5	1.13 / 1.32
TA3M	4.8		6.2 / 4.1 / 2.55							1.95 / 2.13
TA3L	6.4		7.3 / 5.6 / 3.8							2.76 / 2.94
TA41	6.9		6.5 / 4.45 / 3.15	4500 / 3000 / 2000	116	115	19	95	9	5.65 / 5.83
TA42	9.2		8.5 / 5.9 / 4							8.15 / 8.69
TA43	11.7		11.2 / 7.3 / 5							10.65 / 11.19
TA51	11.5		11 / 7.4 / 5	4500 / 3000 / 2000	145	165	24	130	18	14.97 / 16.63
TA52	16.1		15.8 / 10.3 / 6.9							21.53 / 23.19
TA53	20		19.2 / 12.8 / 8.7							28.15 / 29.81

further technical data and motor sizes see KEB-Drive product configuration

HIGHLIGHTS

- 0.5 ... 20 Nm in five frame sizes
- Low inertia–high impulse torque
- Easy plug connection, straight or angled (360° rotatable)
- Compact size - directly integrated in the gear modules
- High total efficiency, lifetime lubricated, universal installation positions and robust mechanics
- Resolver or absolute rotary encoder, BiSS single and multi-turn
- Optionally with COMBIPERM holding brake

DL3 CABLES **FEEDBACK AND POWER CABLES**

Pre-fabricated motor and encoder cables ensure the easy commision and simplify the final installation General performance is the high-quality and flexible design for all cables, made for drag chains Quick and tool-less installation with Speedtec plug connectors guarantees a optimally connection and EMC shielding.

RESOLVER FEEDBACK CABLES

- motor side connector - series 615
- drive side connector D-sub 26 pin

00S6L50-00__

cable length	1…30 m	in 1m steps
	35…50 m	in 5 m steps

HIPERFACE FEEDBACK CABLES

for single and multi turn encoders

- motor side connector - series 615
- drive side connector D-sub 26 pin

00S6L55-00__

cable length	1…30 m	in 1m steps
	35…50 m	in 5 m steps

POWER CABLES

- motor side connector - series 615 motor size A…B
- drive side open end with 0.3m open shielding

00H6L10-00__

cable length	1…30 m	in 1m steps
	35…50 m	in 5 m steps

- motor side conncetor - M23 speedtec motor size C - E

00S4519-00__

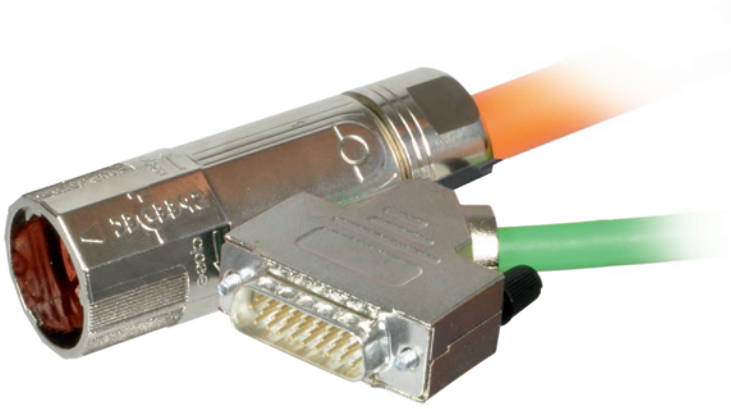
cable length	1…30 m	in 1m steps
	35…50 m	in 5 m steps

HIGHLIGHTS

- Pre-fabricated motor and encoder cables for easy installation
- High-quality and flexible design for cable drag chains
- Quick and tool-less installation with Speedtec plug connectors
- Optimally integrated shield connection
- Available in lengths up to 50 metres

TA CABLES FEEDBACK AND POWER CABLES

Prepaired for the direct connection:



RESOLVER FEEDBACK CABLES

- motor side connector - 16 pin M23 - Speedtec
- drive side connector D-sub 26 pin

00S6L50-10___

cable length	1...30 m	in 1m steps
	35 .. 50 m	in 5 m steps

BISS FEEDBACK CABLES

for multi turn encoders

- motor side connector - 16 pin M23 - Speedtec
- drive side connector D-sub 26 pin

00S6L51-20___

cable length	1...30 m	in 1m steps
	35 .. 50 m	in 5 m steps

HIPERFACE GEBERKABEL

for single and multi turn encoders

- motor side connector - series 615
- drive side connector D-sub 26 pin

00S6L55-10___

cable length	1...30 m	in 1m steps
	35...50 m	in 5 m steps

POWER CABLES

- motor side conncetor - M23 - speedtec for motor size TA2...TA5
- drive side open end with 0.3 m open shielding

00S4519-00___

cable length	1...30 m	in 1m steps
	35...50 m	in 5 m steps

ACCESSORIES

MAINS CHOKE

Reduce the input peak current draw and the mains distortion. By smoothing the input current draw, the lifetime of the drive is enhanced, in particular at constantly high utilization.

Mains choke 3-phases 400 V AC (U_{max} = 550 V), 50 / 60 Hz

Part-No.	I_N [A]	P_V [W]	f_{Main} [Hz]	B [mm]	H [mm]	T [mm]	Weight m [kg]
07Z1B04-1000	2.7	19	45-65	100	55	121	0.9
09Z1B04-1000	4.3	23	45-65	100	55	121	1.1
10Z1B04-1000	6.1	24	45-65	100	64	121	1.5
12Z1B04-1000	10	37	45-65	148	68	145	2.1
13Z1B04-1000	12.6	48	45-65	148	78	145	2.6

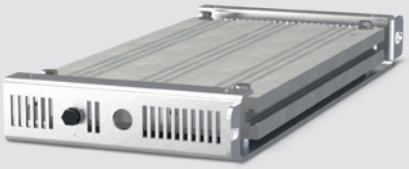
BRAKING RESISTOR

Braking resistors can be connected to the series terminals of the brake transistor, and ensure that energy peaks are absorbed and discharged. The compact design require only small space and they are intrinsically safe; without additional temperature sensors.

To protect against overheating and fire hazards, the brake resistors feature thermal monitoring which can be integrated into the external circuit.

BRAKING RESISTORS - „INTRINSICALLY SAFE“

10G6A90-4300	wire 0.2 m	200 W; 160 Ohm; IP40
13G6B90-4300	wire 0.2 m	250 W; 110 Ohm; IP40
15G6C90-4300	wire 0.2 m	300 W; 56 Ohm; IP40



In addition to the defined base versions compact and application the COMBIVERT S6 unit offers specific application adjustments and customization.

HIGH SPEED SPINDLE DRIVES

- Maximum output frequency 2000 Hz

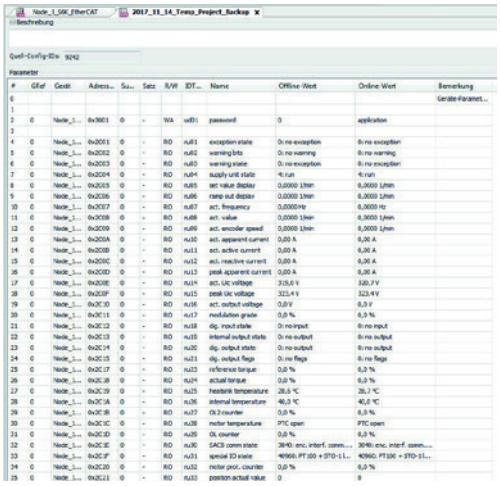
SPECIFIC FIRMWARE

- Fixed software versions according tested application specification

Software version
SW S6-K EtherCAT Version 2.2.0.0
S6K_MAIN_ETC_0202000F_20170705_1751
S6K_FPGA_ETC_02020034_20170509
0SS6K30_02000001_70_2014_09_03
DWS6KD0000_2014_10_09

APPLICATION READY TO START

- Customer specific parameter lists stored on the drives internal file server ex works



CUSTOMER LABELLING

- Specific name plate for series OEM with first line service concept

EXTENDED WARRANTY

- 24 months warranty
- 36 months warranty

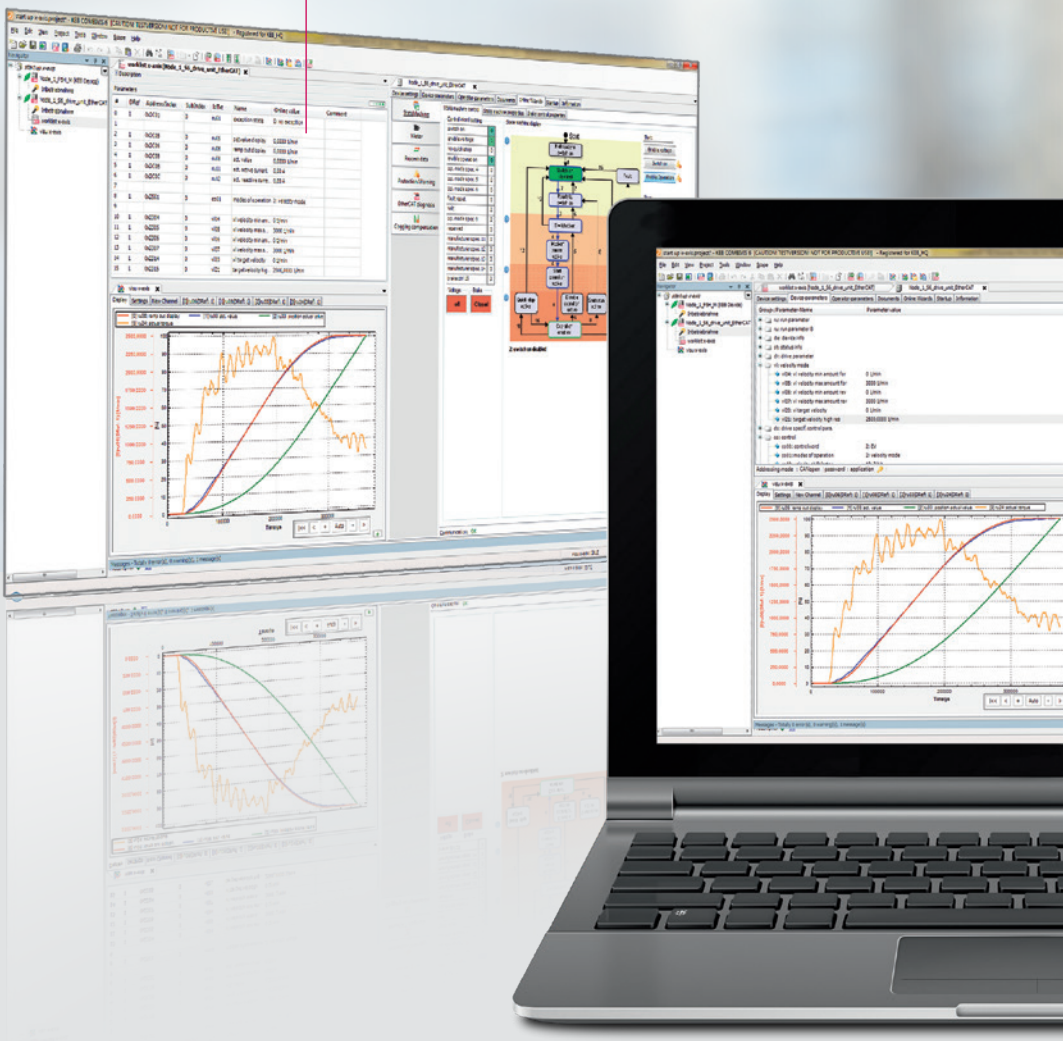
CONNECTOR SHIELDING SET

- Drive controller with connector and shielding set

COMBIVIS 6 - THE TOOL FOR ALL TASKS

COMBIVIS 6

- Free and easy-to-use software for startup, administration and analysis
- Integrated start-up assistants (Wizards) for quick and easy configuration
- Direct access to device documentation
- 16 channel oscilloscope for extensive analysis
- Online parameter list comparison
- Parameterisation of key safety indicators and functions



COMBIVIS studio 6

The intelligent automation suite from KEB combines an assistant-guided component selection, fieldbus configuration, drive parameterisation, IEC 61131-3 project generation and motion control. Throughout the planning and layout phase, implementation of control sequences and multi-axis movement profiles, to start-up and fine tuning, the user is supported by a tool developed by experienced application engineers.

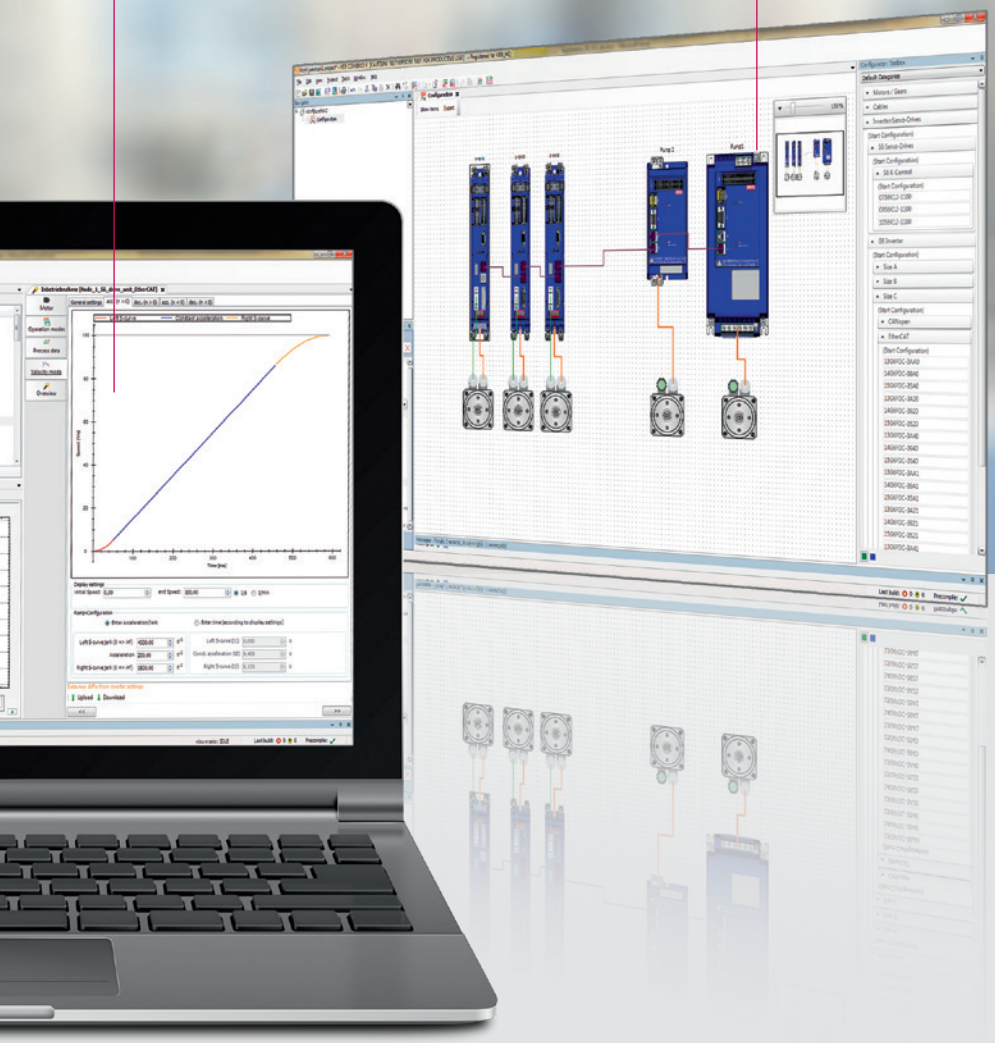
With a foundation built on libraries, devices and template databases, rapid and simple solutions can be generated for a wide range of applications.

COMMISSIONING ASSISTANT

- Complete user guidance through the commissioning process
- KEB Motor database, free for extensions
- Anti cogging
- Fieldbus diagnostic and optimisation

SYSTEM CONFIGURATION AS A NEW COMPONENT OF COMBIVIS

- Access to complete KEB product database
- Intuitive gear component selection and system configuration using drag and drop
- Selection assistant with display of compatible components
- Display of all interfaces and connection components
- Material number generator
- Extensive export function for quote list, Combivis Project, Excel ...



HIGHLIGHTS

- IEC 61131-3 Applications development
- Device and library database
- Product configuration
- Start-up and diagnosis assistant
- COMBIVIS studio HMI integration
- Document database

KEB SERVICE

PERFORMANCE AND COMPETENCE

AFTER-SALES CUSTOMER SUPPORT

- Start-up support
- EMC service
- Mains analysis
- Insulation, heat or vibration measurements
- Conversion of old product series

MAINTENANCE AND REPAIRS

- Rush or standard service

COMPONENT AND SPACE PART SUPPLY

- Used and new parts for the exchange

PREVENTIVE MAINTENANCE

- Forming and cleaning, inspection, functional analysis

CUSTOMER SPECIFIC SERVICE

- Individual service support
- System optimisation

KEB WORLDWIDE

Austria | KEB Automation GmbH
Ritzstraße 8 4614 Marchtrenk Austria
Tel: +43 7243 53586-0 Fax: +43 7243 53586-21
E-Mail: info@keb.at Internet: www.keb.at

Belgium | KEB Automation KG
Herenveld 2 9500 Geraardsbergen Belgium
Tel: +32 544 37860 Fax: +32 544 37898
E-Mail: vb.belgien@keb.de Internet: www.keb.de

Brazil | KEB South America – Regional Manager
Rua Dr. Omar Pacheco Souza Riberio, 70
BR-CEP 13569-430 Portal do Sol, São Carlos Brazil
Tel: +55 16 31161294 E-Mail: roberto.arias@keb.de

France | Société Française KEB SASU
Z.I. de la Croix St. Nicolas 14, rue Gustave Eiffel
94510 La Queue en Brie France
Tel: +33 149620101 Fax: +33 145767495
E-Mail: info@keb.fr Internet: www.keb.fr

Germany | **Headquarters**
KEB Automation KG
Suedstraße 38 32683 Barntrup Germany
Telefon +49 5263 401-0 Fax +49 5263 401-116
E-Mail: info@keb.de Internet: www.keb.de

Germany | **Geared Motors**
KEB Antriebstechnik GmbH
Wildbacher Straße 5 08289 Schneeberg Germany
Telefon +49 3772 67-0 Fax +49 3772 67-281
E-Mail: info@keb-drive.de Internet: www.keb-drive.de

Italy | KEB Italia S.r.l. Unipersonale
Via Newton, 2 20019 Settimo Milanese (Milano) Italia
Tel: +39 02 3353531 Fax: +39 02 33500790
E-Mail: info@keb.it Internet: www.keb.it

Japan | KEB Japan Ltd.
15 - 16, 2 - Chome, Takanawa Minato-ku
Tokyo 108 - 0074 Japan
Tel: +81 33 445-8515 Fax: +81 33 445-8215
E-Mail: info@keb.jp Internet: www.keb.jp

P. R. China | KEB Power Transmission Technology (Shanghai) Co. Ltd.
No. 435 QianPu Road Chedun Town Songjiang District
201611 Shanghai P. R. China
Tel: +86 21 37746688 Fax: +86 21 37746600
E-Mail: info@keb.cn Internet: www.keb.cn

Republic of Korea | KEB Automation KG
Room 1709, 415 Missy 2000 725 Su Seo Dong
Gangnam Gu 135- 757 Seoul Republic of Korea
Tel: +82 2 6253 6771 Fax: +82 2 6253 6770
E-Mail: vb.korea@keb.de Internet: www.keb.de

Russian Federation | KEB RUS Ltd.
Lesnaya str, house 30 Dzerzhinsky MO
140091 Moscow region Russian Federation
Tel: +7 495 6320217 Fax: +7 495 6320217
E-Mail: info@keb.ru Internet: www.keb.ru

Spain | KEB Automation KG
c / Mitjer, Nave 8 - Pol. Ind. LA MASIA
08798 Sant Cugat Sesgarrigues (Barcelona) Spain
Tel: +34 93 8970268 Fax: +34 93 8992035
E-Mail: vb.espana@keb.de Internet: www.keb.de

Switzerland | KEB Automation AG
Witzbergstraße 24 8330 Pfaeffikon/ZH Switzerland
Tel: +41 43 2886060 Fax: +41 43 2886088
E-Mail: info@keb.ch Internet: www.keb.ch

United Kingdom | KEB (UK) Ltd.
5 Morris Close Park Farm Industrial Estate
Wellingborough, Northants, NN8 6 XF United Kingdom
Tel: +44 1933 402220 Fax: +44 1933 400724
E-Mail: info@keb.co.uk Internet: www.keb.co.uk

United States | KEB America, Inc.
5100 Valley Industrial Blvd. South
Shakopee, MN 55379 United States
Tel: +1 952 2241400 Fax: +1 952 2241499
E-Mail: info@kebamerica.com Internet: www.kebamerica.com

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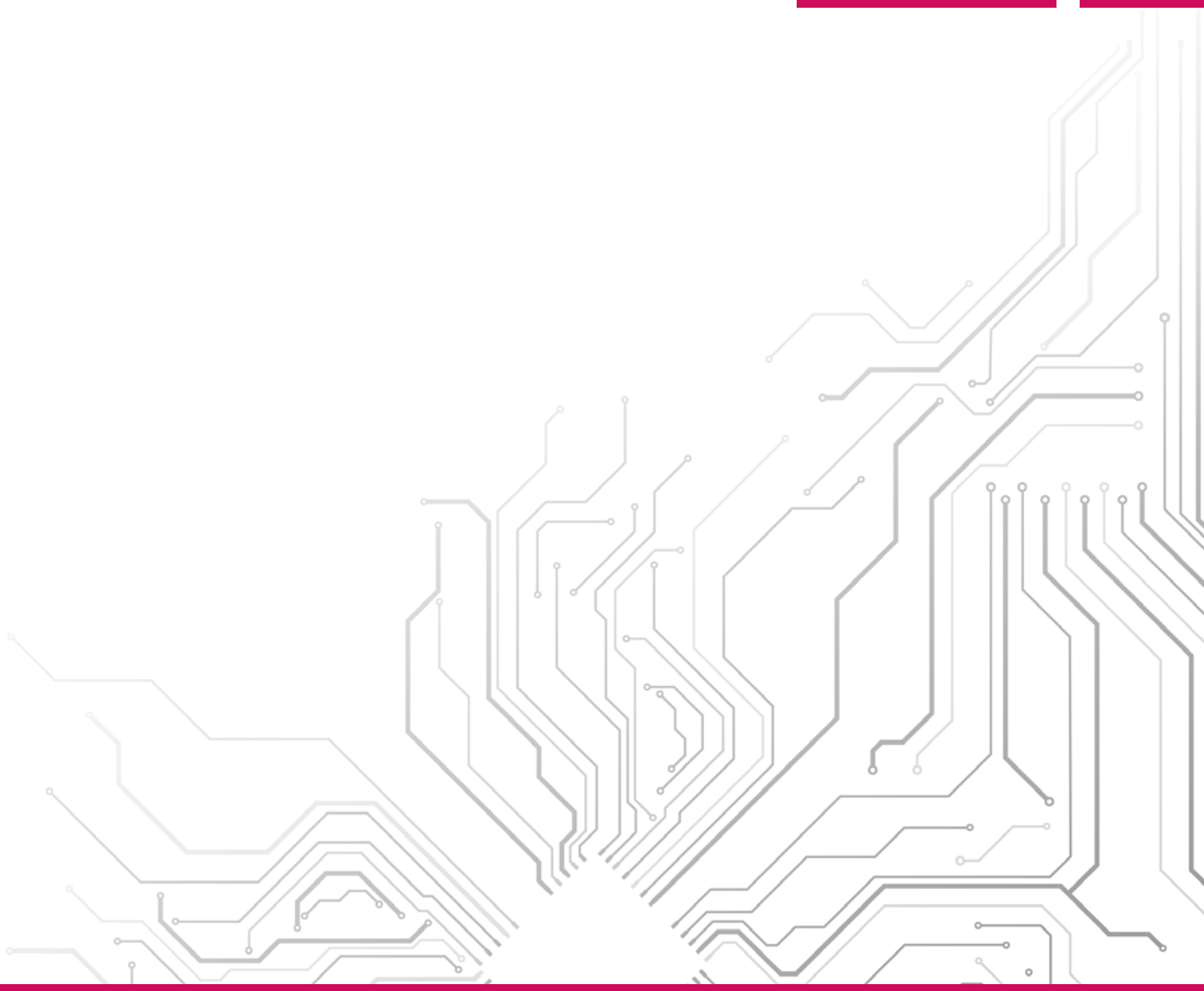
... www.keb.de/contact/contact-worldwide



Automation **with Drive**

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KEB Automation KG Südstrasse 38 32683 Barntrup Germany Tel. +49 5263 401-0 E-Mail: info@keb.de