



COMBIVERT S6

COMPACT SERVO DRIVES
EN



KEB

CONTENT

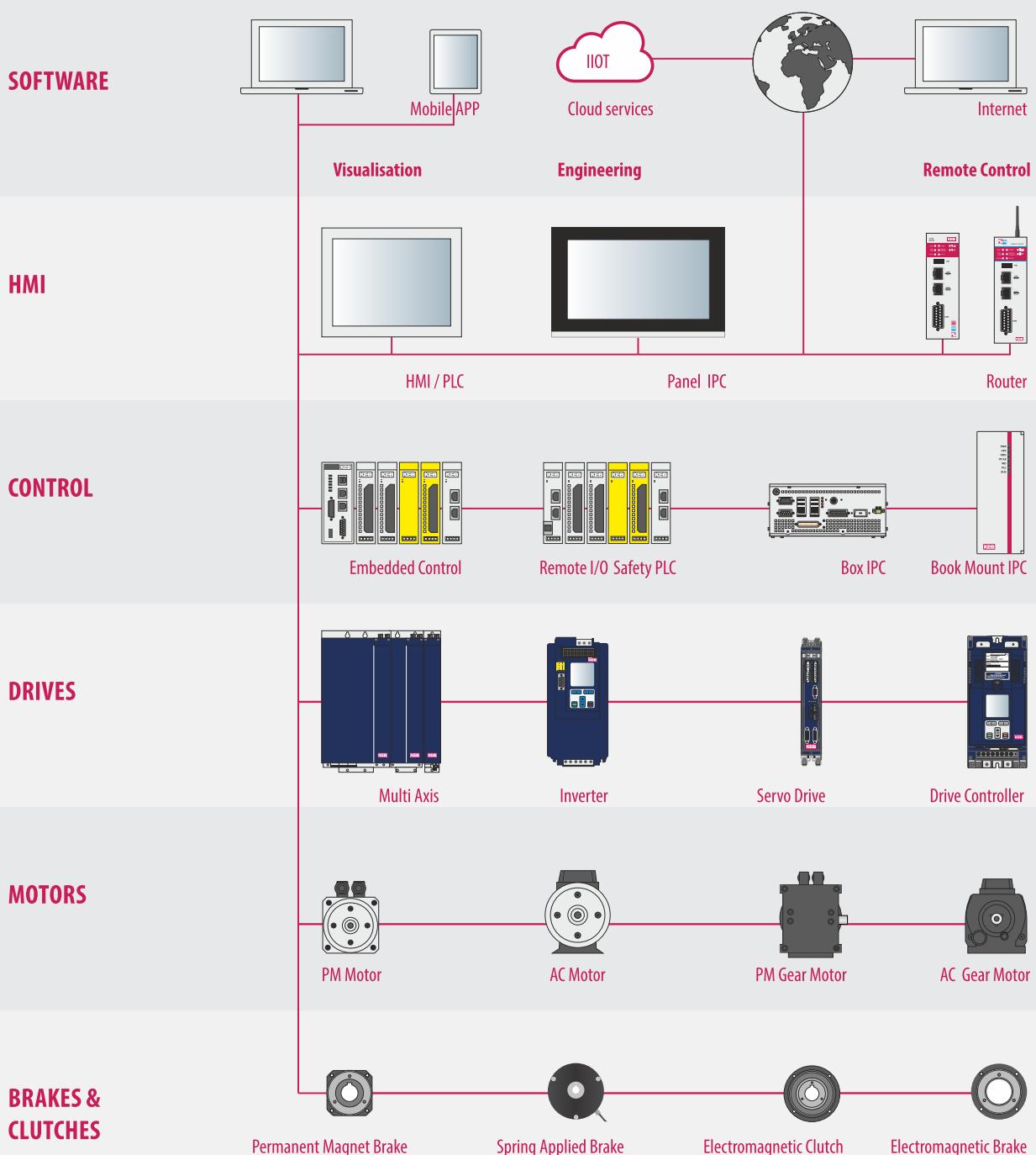
	PAGE
System overview	3
Benefits at a glance	4
COMBIVERT S6 versions	6
Functional Safety	8
Electrical properties	10
Mechanical data, operating types, standards	11
Servo Motors DL3	12
Planetary gear	13
Servo Gear Motors	14
Servo Motors TA	15
DL3 cables	16
TA cables	17
Accessories	18
My Drive	19
Combivis 6	20
KEB Service	22
All India Service Network	23

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.

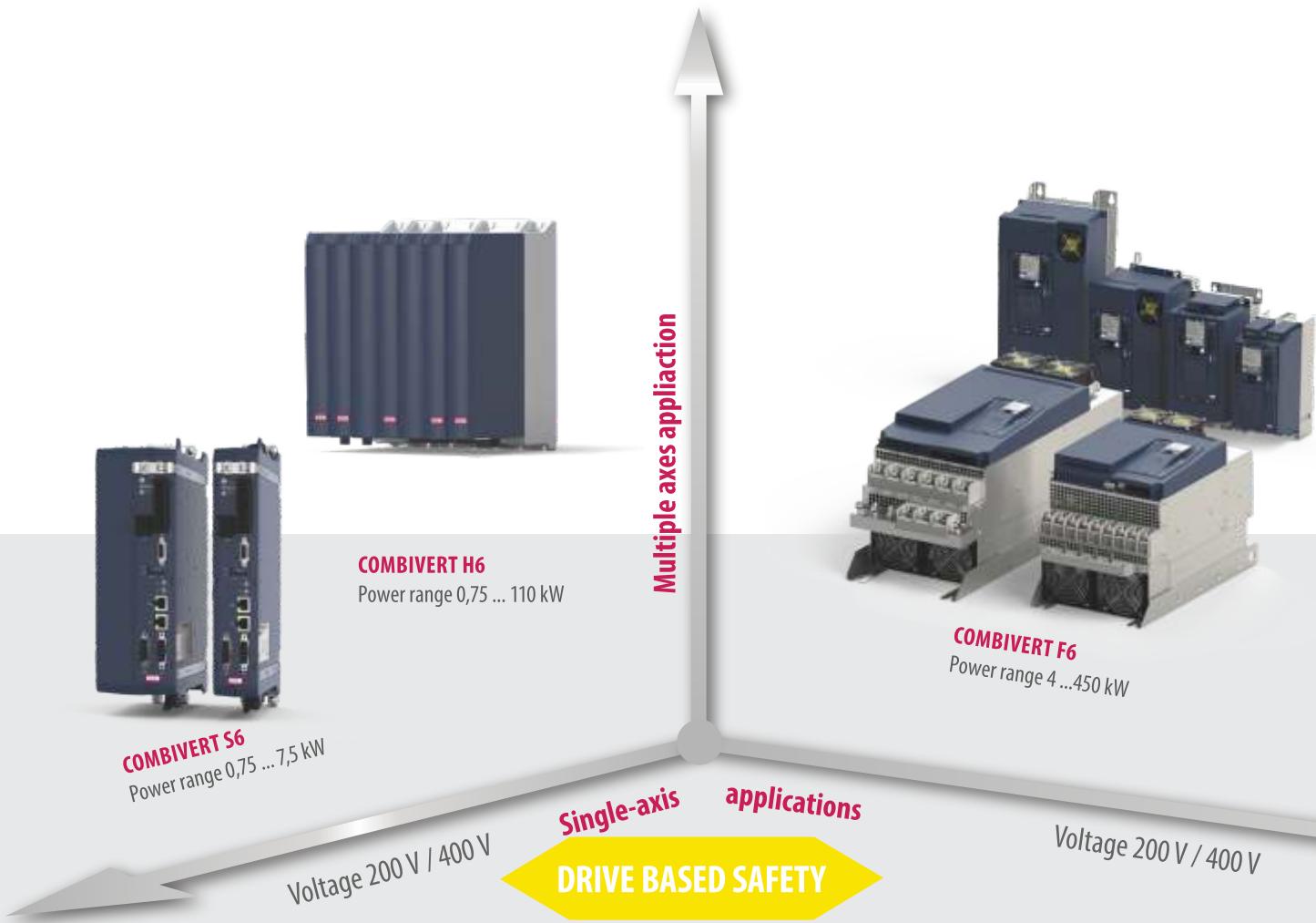
Let the following pages inspire you with regards to the diversity and performance of the COMBIVERT S6 servo system, and help you to find a solution that reliably meets your requirements.



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 450 kW.

POSSIBLE SELECTION: S6 SERVO DRIVE 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)

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

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

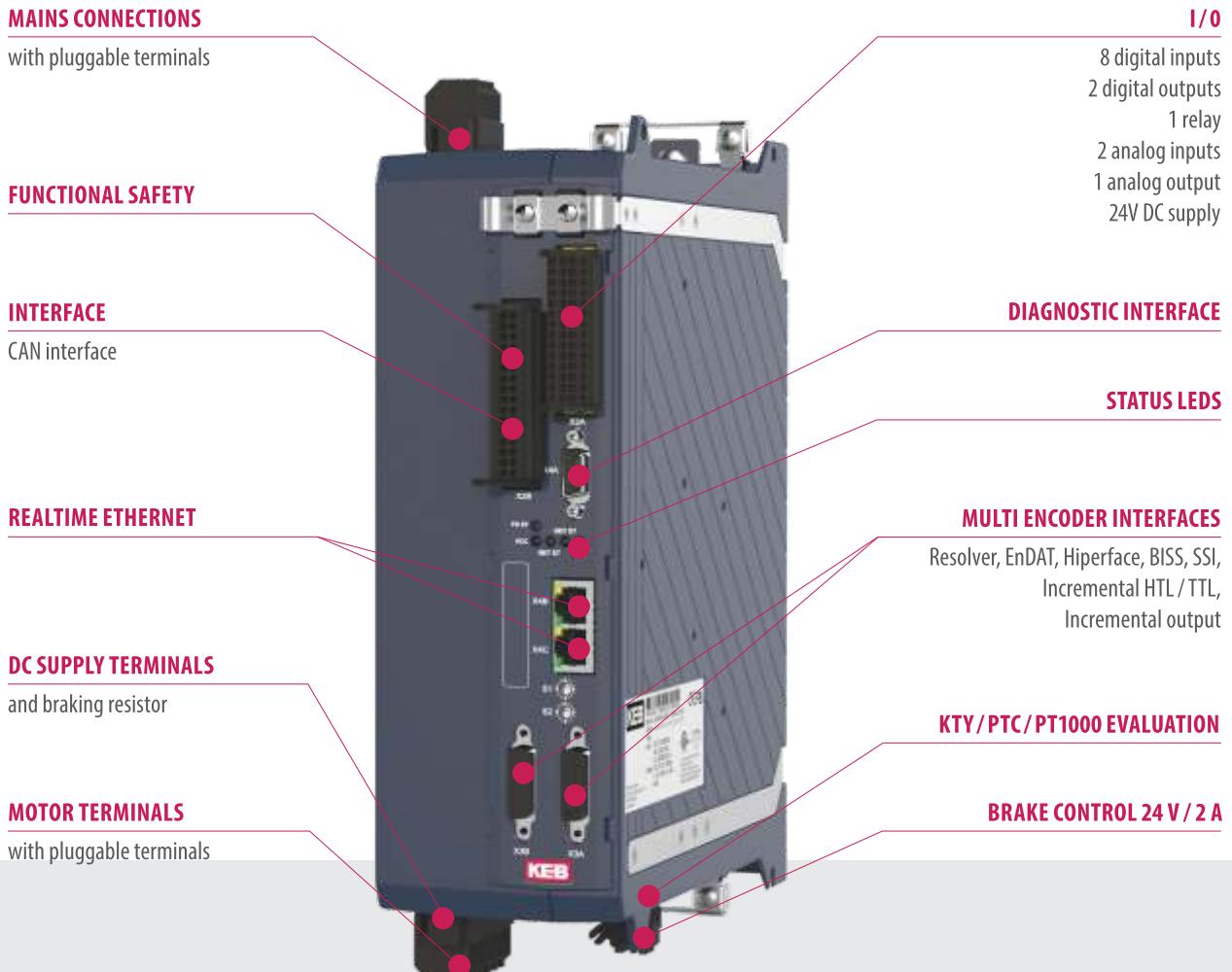
ANALOG & DIGITAL I / O

supports actual machine concepts with:

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

**HIGHLIGHTS**

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








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 (FSoE)
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 (FSoE)

Communication interface

CAN

DIAGNOSTIC RS232 / 485



ETHERNET ■ ■ ■ ■ ■
POWERLINK

EtherNet t/IP®



HIGHLIGHTS

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

BASIS FOR SAFETY

COMPACT

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

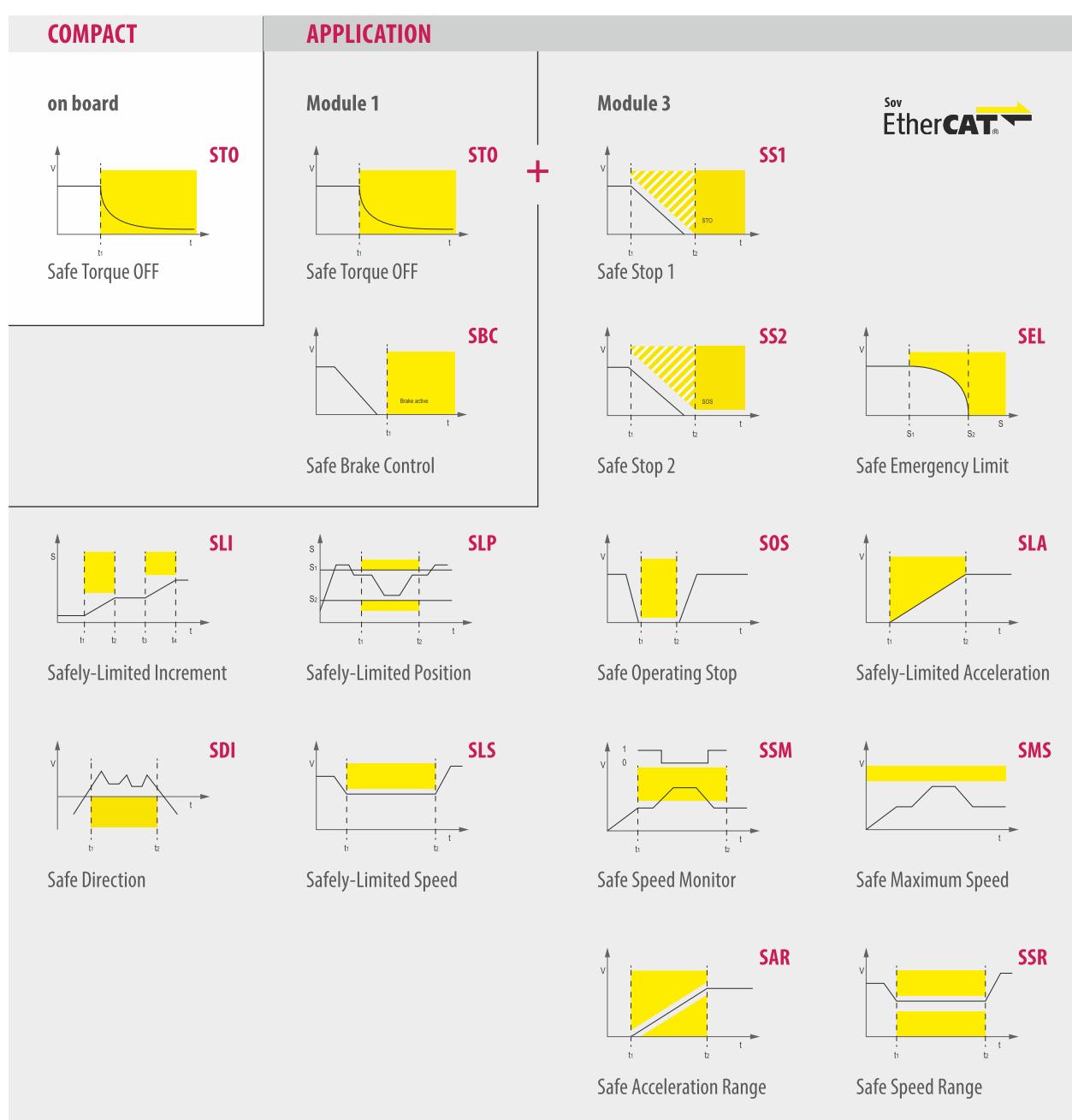
SAFETY FUNCTIONS WITH SPEED AND POSITION MONITORING

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).



ENCODERLESS SAFETY FUNCTIONS

PRO

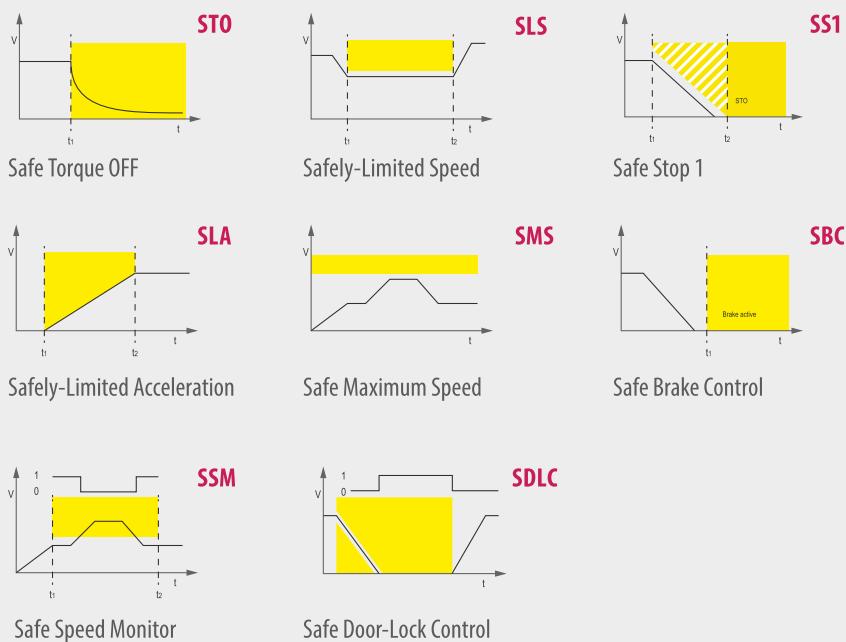
The PRO device variant of the COMBIVERT F6 and S6 drive controllers offers advanced safety functions without having to use a safety encoder. The device determines the safe velocity parameters from the pulse width modulation (PWM) of the motor supply.

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



Sov
EtherCAT®



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 eight 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 $f_s = 4$ 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 $f_s = 8$ 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 $f_s = 16$ 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]								4
Max. switching frequency	f_{Smax}	[kHz]						16		
Rated losses	P_D	[W]	60	95	50	57	80	155	185	250
Standby losses	P_{Dstop}	[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

OPERATING TYPES, STANDARDS

OPERATING MODES

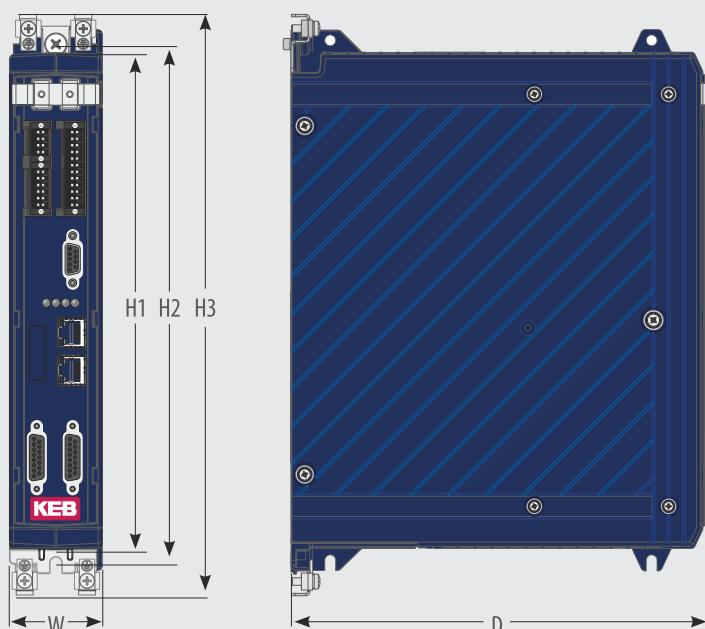
Motor control mode	PMSM: field-oriented with encoder, S.C.L. encoderless IPMSM: field-oriented with encoder, S.C.L. encoderless SyncRM: field-oriented with encoder, S.C.L. encoderless ASM: V / F, field-oriented with encoder, A.S.C.L. encoderless
Application profile	CiA 402
Control mode	Velocity Mode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

GENERAL

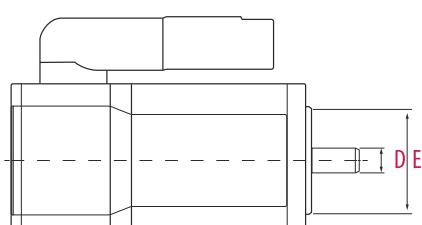
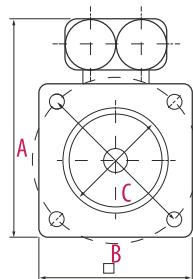
Product standard	EN 61800-2, -5-1
EMC transient emissions	
Grid-bound disturbance	EN 61800-3, C2 - 1-ph: 30 m - 3-ph: 50 m motor cable length (shielded), low-capacitance
Emitted disturbances	EN 61000-6-1..4, C2
Protection class	IP 20 / VBG 4
Environment	EN 60721-3-3 Operating temperature -10 ... 45 °C Storage temperature -25 ... 55 °C Humidity 3K3 - 5 ... 85% (no condensation)
Site altitude	max. 2,000 m above sea level, from 1,000 m: power reduction of 1 % per 100 m

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						

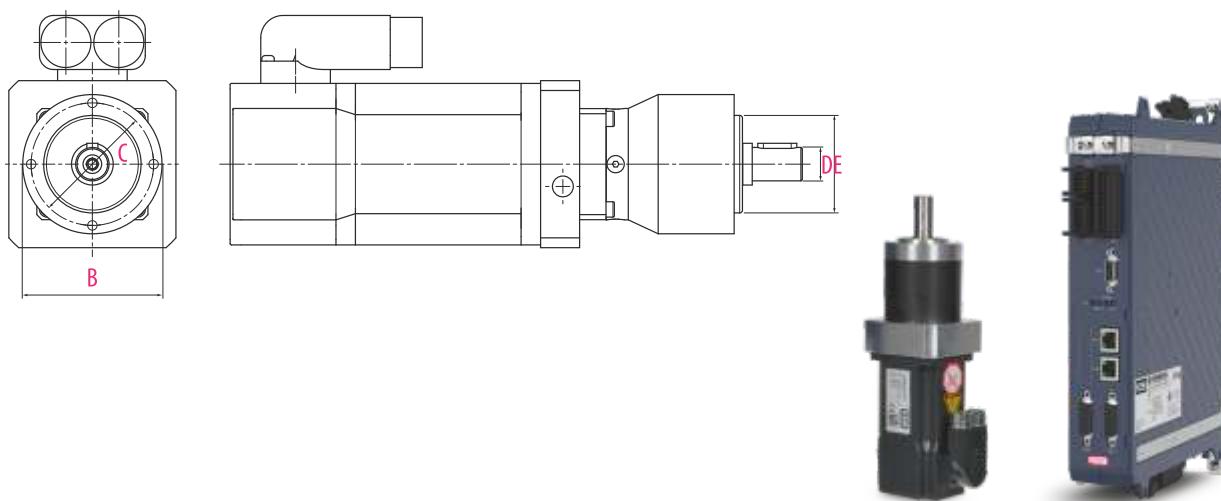
Stall torque in Nm

MOTOR	T _o [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	OPTION BRAKE	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	C	D	E	DL3-MOTOR recommended				
						Ø [mm]	Ø [mm]	Ø [mm]	Ø [mm]	A	B	C	D	E
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

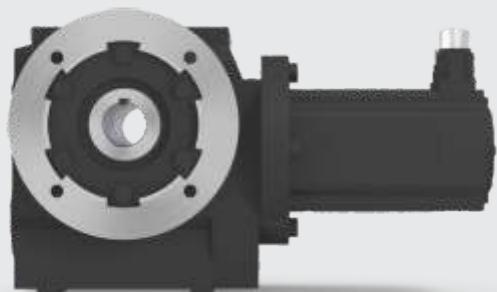
INTEGRATED SERVO DESIGN

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 lengths, 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	■	■	■	■	■

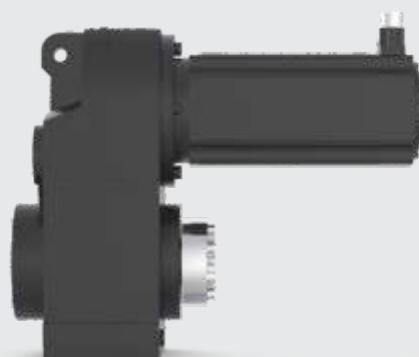
HELICAL GEAR



HELICAL WORM GEAR

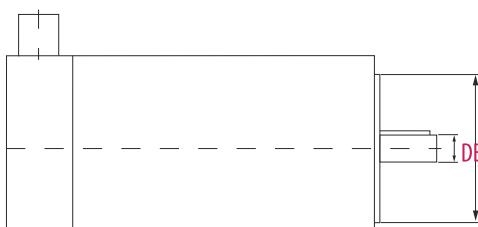
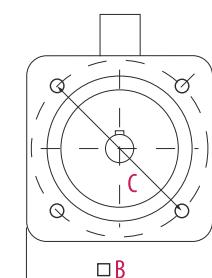


HELICAL BEVEL GEAR



SHAFT MOUNTED HELICAL GEAR

TA SERIES



TA 1	0.5 ... 0.9
TA 2	1.3 ... 3.3
TA 3	2.9 ... 6.8
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	INERTIA J _M / J _{MwBr} [kgcm ²]
TA1S	0.5		0.95 / 0.72							0.14 / 0.2
TA1M	0.9		1.11 / 0.84							0.2 / 0.27
TA2S	1.4		1.6 / 1.1							0.39 / 0.46
TA2M	2.4		2.75 / 2	6000 / 4500	58	63	9	40	2	0.66 / 0.73
TA2L	3.3		3.9 / 2.8							0.93 / 0.99
TA3S	2.9		3.4 / 2.5 / 1.82							1.13 / 1.32
TA3M	4.9		6.2 / 4.1 / 2.55	6000 / 4500 / 3000	75	75	11	60	2	1.95 / 2.13
TA3L	6.8	400	7.3 / 5.6 / 3.8							2.76 / 2.94
TA41	6.9		6.5 / 4.45 / 3.15							5.65 / 5.83
TA42	9.2		8.5 / 5.9 / 4	4500 / 3000 / 2000	116	100	19	80	9	8.15 / 8.69
TA43	11.7		11.2 / 7.3 / 5							10.65 / 11.19
TA51	11.5		11 / 7.4 / 5							14.97 / 16.63
TA52	16.1		15.8 / 10.3 / 6.9	4500 / 3000 / 2000	145	165	24	130	18	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 commissioning 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 1 m 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 1 m steps
	35.50 m	in 5 m steps

MOTOR CONNECTION CABLES

- motor side connector - series 615 motor sizes 01 ... 03 and A ... B
- drive side open end with 0.3 m open shielding

00H6L10-00

cable length	1..30 m	in 1 m steps
	35.50 m	in 5 m steps

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

00S4519-00

cable length	1..30 m	in 1 m steps
	35.50 m	in 5 m steps

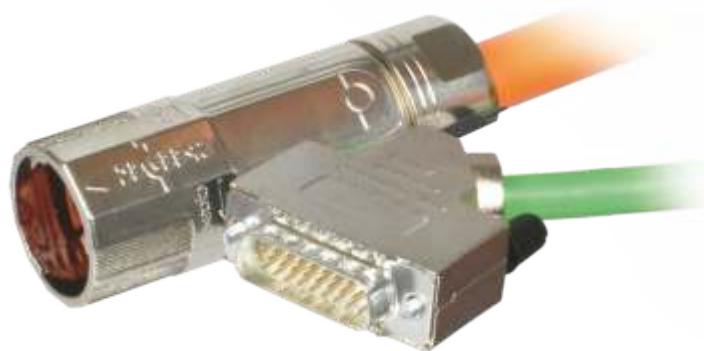


HIGHLIGHTS

- 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

Prepared for the direct connection:



RESOLVER FEEDBACK CABLES

- motor side connector - 12 pin M23 - Speedtec
- drive side connector D-sub 26 pin

00S6L50-10__

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

BISS FEEDBACK CABLES

for multi turn encoders

- motor side connector - 17 pin M23 - Speedtec
- drive side connector D-sub 26 pin

00S6L51-20__

cable length	1...30 m	in 1 m 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

00S6L55-10__

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

MOTOR CONNECTION CABLES

- motor side connector - 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 1 m steps
	35..50 m	in 5 m steps

MAINS CHOKE

Mains chokes 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]	W [mm]	H [mm]	D [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

Part Number	P_D [W]	R [Ω]	W [mm]	H [mm]	D [mm]	Wire [m]	Protection class
10G6A90-4300	200	160	220	90	31	0.2	IP40
13G6B90-4300	250	110	285	90	31	0.2	IP40
15G6C90-4300	300	56	295	120	31	0.2	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 2,000 Hz



SPECIFIC FIRMWARE

- Fixed software versions according tested application specification

APPLICATION READY TO START

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

EXTENDED WARRANTY

- 24 months warranty
 - 36 months warranty

CONNECTOR SHIELDING SET

- Drive controller with connector and shielding set



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.

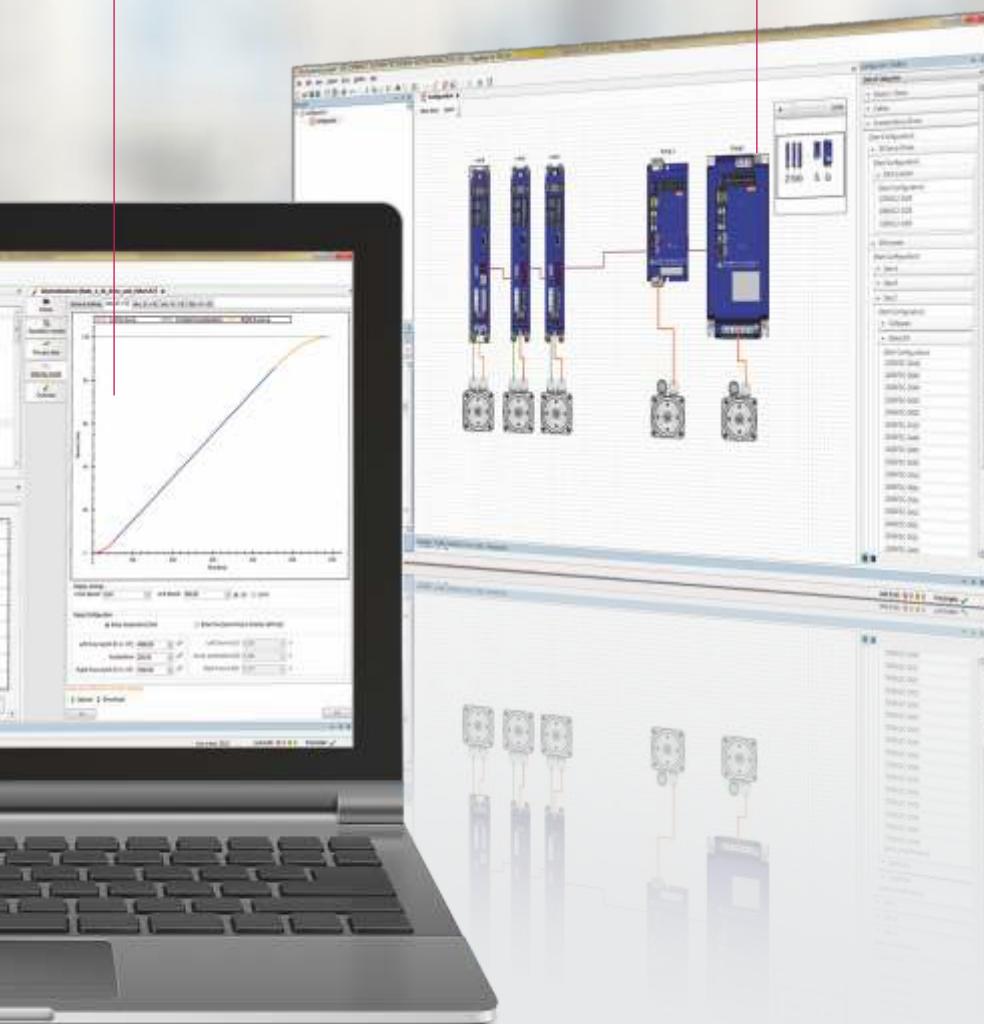
With a foundation built on libraries, devices and template databases, rapid and simple solutions can be generated for a wide range of applications.

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 COMBIVIS, Excel, etc.

**HIGHLIGHTS**

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

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

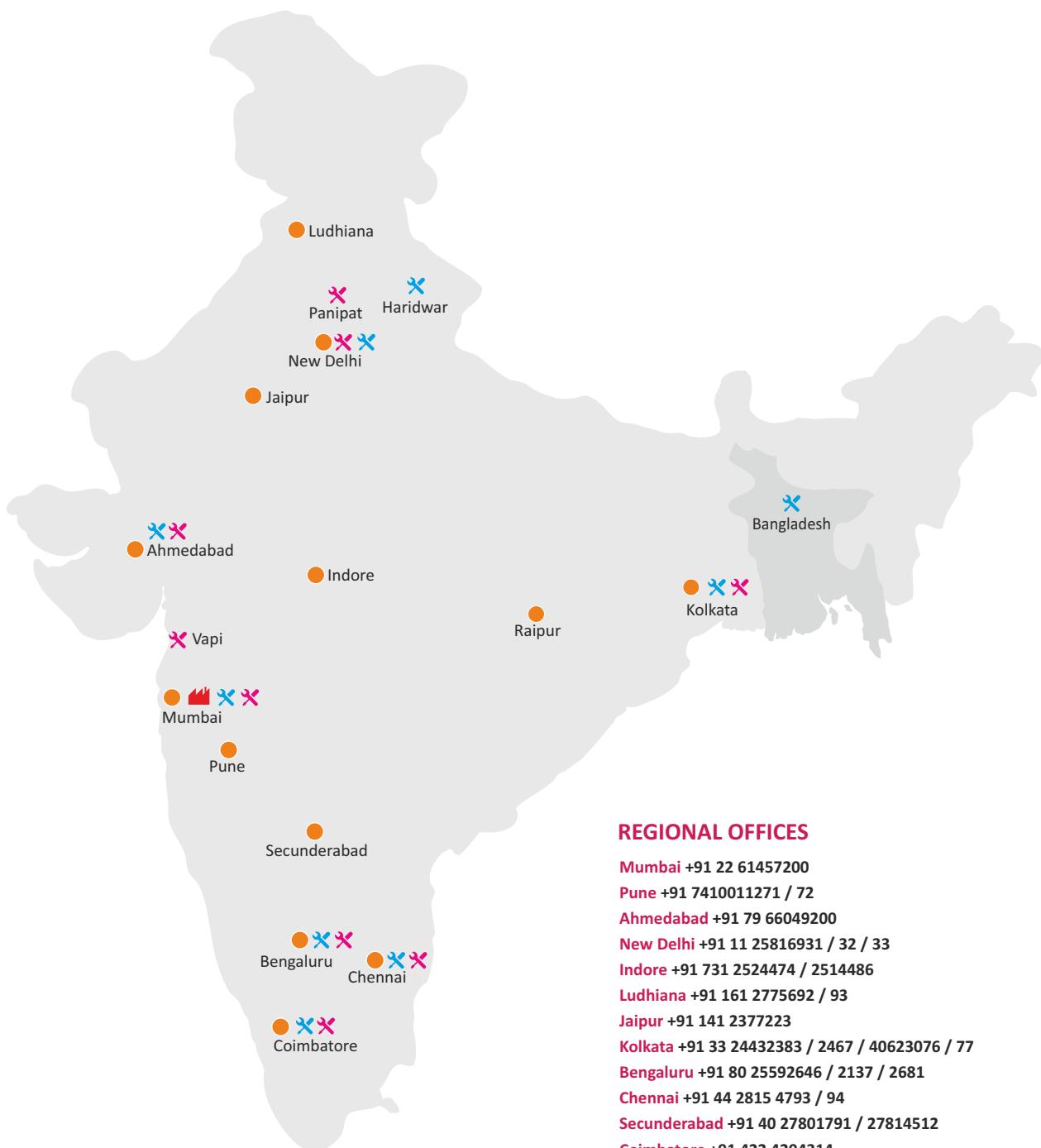
CUSTOMER SPECIFIC SERVICE

- Individual service support
- System optimisation



ALL INDIA SERVICE NETWORK

- Regional Offices
- Works
- ✖ Service Centre: Drives
- ✗ Service Centre: Servo Motors



REGIONAL OFFICES

Mumbai	+91 22 61457200
Pune	+91 7410011271 / 72
Ahmedabad	+91 79 66049200
New Delhi	+91 11 25816931 / 32 / 33
Indore	+91 731 2524474 / 2514486
Ludhiana	+91 161 2775692 / 93
Jaipur	+91 141 2377223
Kolkata	+91 33 24432383 / 2467 / 40623076 / 77
Bengaluru	+91 80 25592646 / 2137 / 2681
Chennai	+91 44 2815 4793 / 94
Secunderabad	+91 40 27801791 / 27814512
Coimbatore	+91 422 4204314



For Sales Enquiry: drivesales@bharatbijlee.com T: 022-27637200

BB ServiceLINE®
Customer Service Helpdesk for Industrial Systems

+91 22 - 2763 7290
serviceline@bharatbijlee.com



Bharat Bijlee Drives & Automation
Mobile App for Troubleshooting and
Maintenance of Drives & Servo Motors
Download for free from Google Play Store



 **Bharat Bijlee**

REGISTERED OFFICE
Electric Mansion, 6th Floor,
Appasaheb Marathe Marg,
Prabhadevi, Mumbai 400 025
T: +91 22 2430 6237 / 6375
E: info@bharatbijlee.com
CIN: L31300MH1946PLC005017

WORKS
No. 2, MIDC Thane-Belapur Road, Airoli,
Navi Mumbai 400 708
T: +91 22 2763 7200 / +91 22 2760 0401
E: drivesales@bharatbijlee.com
www.bharatbijlee.com

Follow us on ►



www.facebook.com/bharatbijleeltd



www.linkedin.com/company/bharat-bijlee-ltd

All product designations may be trademarks or product names of Bharat Bijlee Ltd, or of its partner or supplier companies, and whose use by third parties for their own purposes could violate the rights of the owners.

Product improvement is a continuous process and technical information herein is subject to change. Please contact our nearest sales office for the latest information.