

COMBIVERT **S6**

COMPACT SERVO DRIVES V 1.0 - **EN**



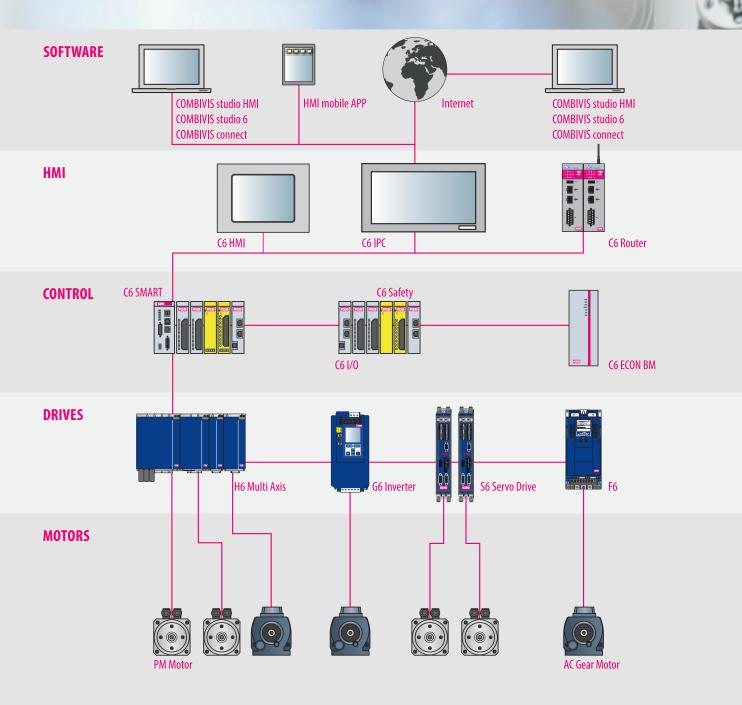
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SYSTEM OVERVIEW

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 complete the drive line with 1:1 features up to 400 kW.

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

- 2.6 ... 12 A in two enclosures with five 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, 260 750 V
- Low leakage current mains filter (<5 mA) integrated, optional without filter
- High overload for excellent dynamics (250% / 3 s, 200% / 60 s)



- 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 High Level Safety in Application version

REAL-TIME COMMUNICATION

- or simply serial
- Real-time Ethernet-based interfaces
- CAN
- 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 synchronous, asynchronous, 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 GTR7 brake transistor
- Integrated brake control and brake supply

COMBIVERT S6 - VERSIONS

S6-K COMPACT

HIGHLY INTEGRATED AND ECONOMICAL

The S6-K offers uncompromising integration, maximum performance and an optimum price/performance relationship.

These are the advantages of the compact version S6-K

- Fast link to the control level using EtherCAT and the CAN interface
- Integrated safety function "Safe Torque Off" (STO) according to ISO 13849- Performance Level e / IEC 62061- SIL 3.

REALTIME ETHERNET INTEGRATED

EtherCAT

and as communication interface (standard feature)

CAN

DIAGNOSTIC RS232/485



and braking resistor

MAINS CONNECTIONS

MOTOR TERMINALS

Ether**CAT**

CANopea



- uncompromising integration, maximum performance
- optimum price/performance relationship
- safety function STO according to ISO 13849 Performance Level e / IEC 62061- SIL 3
- integrated Real-time EtherCAT and as communication interface CAN
- diagnosis interface

KEB

S6-A APPLICATION

MODULAR AND FLEXIBLE

The S6-A can be summarized as modular, flexible and reliable.

The characteristics of the application version S6-A

- It includes all of the advantages of the compact version and offer more flexibility for selecting the bus connection to the control level and a larger selection of safety functionality.
- For the bus communication a single device supports EtherCAT and in addition PROFINET and POWERLINK.
- STO and SBC are already integrated as standard safety features.
- Optionally, with safety module 3 users can also select up to three additional functions from an extensive package.

STATUS LEDS

1/0

1 relay 2 analog inputs

8 digital inputs 2 digital outputs

1 analog output

DIAGNOSTIC INTERFACE

24V DC supply

MULTI ENCOCER INTERFACES

Resolver, EnDAT, Hiperface, BISS, SSI, Incremental HTL/TTL, Incremental output

KTY/PTC/PT1000 EVALUATION

BRAKE CONTROL 24 V / 2 A

REALTIME ETHERNET INTEGRATED

EtherCAT PROFINET POWERLINK

and communication interfaces as standard **CAN**

DIAGNOSTIC RS 232/485

POWERLINK



HIGHLIGHTS

- flexible adaption in usage
- high Level Safety Function STO and SBC "Safe Brake Control" according to ISO 13849 Performance Level e / IEC 62061- SIL 3
- optionally version Safety Module 3 with up to three additional functions including SS1, SS2, SEL, SLI, SLP, SOS, SLA, SDI, SLS, SSM, SMS, SAR, SSR,

and prepared for real time safety communication FSoE (fail safe over EtherCAT)



	Examination Cer	inocat	·
RegNr/No.: 01/	205/5517 00/16		
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Product tested	Sicherheitstunktion STO auf der Bissenkarte des COMISIVERT F6-K Unvühlters Bafegr function STO an einhol board within the COMISIVERT F6-K inventor	Zertfikats- inhaper Certificate holder	NEB Rart E. Britkonarie Gentert Försterweg 30:38 03455 Benthup Germany
Typbszeichnung Type designation	Sieuerkarts / Control board 3K/6x30-001 zar Tienverdung in den Umrichtern / to be	o, skillevao-aoni usad in Inverters	INFOCO-KOX
Prüfgrundlagen Godes and standards	EN 61800-5-22007 EN 61800-5-12007 EN 62011-2005 + AG2010 + A1:2018 + A2:2015	EN 90204- extracto)	849-12015 12006 + A12009 + AG2910 (In Parts 1-72010
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Berlin, 2018-06-01	source and	-	
	Notified Body for Machinery, N	0000	Upting. Eaethard Freino



- possible download of encrypted data packets through machine controllers modular safety concept
- dual channel ripple interface for cascading functional safety over multiple KEB drives
- dual OSSD outputs for supply of the safe digital inputs (detection of wire bre
 safe parameterization through COMBIVIS 6 with protected operation levels dual OSSD outputs for supply of the safe digital inputs (detection of wire break, shortcut and external supply)

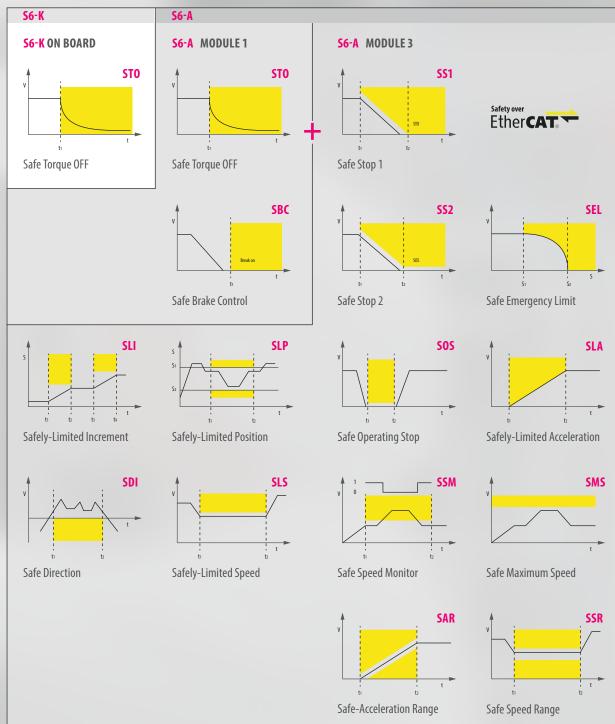
FUNCTIONAL SAFETY

SAFETY FUNCTIONS ACCORDING TO IEC 61508 - SIL3, ISO 13849 - PL e

With the drive-based-safety, safety functions are shifted into the drive platform and the costs of separate protective devices are reduced. The drive controllers COMBIVERT S6 are prepared for the different requirements in their modular structure.

In the compact version S6-K, STO is an "on board" integrated component. The application version S6-A can be equipped with different safety modules. Depending on the requirement, basic functions with the Module 1 and a wide range of functions are available with the Module 3, which are addressed via safe inputs and outputs and safe FSoE communication.

The full Safety System results in the interaction of the drive controllers with the KEB C6 Safety PLC and the C6 Safety I / 0's.



COMBIVERT **S6**

ELECTRICAL PROPERTIES

HOUSING			2			4		
Device size			07	09	10	12	13	
Mains phases					3			
Output rated current					5.8	9.5	12.0	
Short maximum current (3 s / 60 s) 1)	I _{HSR}	[%]		I	250 / 200	I	I	
Output rated power *	S _A	[kVA]	1.8	2.8	4	6.6	8.3	
Typical rated motor power	P _{mot}	[kW]	0.75	1.5	2.2	4.0	5.5	
Max. current 0 Hz / cutoff frequency at fs = 4 kHz $^{1)}$	I ₀	[%]	200	/250	150,	/250	200/250	
Max. current 0 Hz / cutoff frequency at fs = 8 kHz $^{1)}$	I ₀	[%]	125,	/200	100/200	150/250	125/200	
Max. current 0 Hz / cutoff frequency at fs = 16 kHz $^{1)}$	I ₀	[%]	75/180	50/120	50/120	75/150	75/125	
Cutoff frequency point	[Hz]			б				
Input rated current	I	[A]	3.6	6	8	13	17	
Max. permissible mains fuses	Typ gG	[A]		16 20 2				
Rated switching frequency	f _{sn}	[kHz]			8			
Max. switching frequency	f _{Smax}	[kHz]			16			
Rated losses	P _D	[W]	52	60	80	145	198	
Standby losses	P _{Dnop}	[W]			8			
Min. brake resistance	R _{Bmin}	[Ω]	170	120	85	39	39	
Max. braking current	I _{. Bmax}	[A]	5	7	10	21.5	21.5	
Input rated voltage (AC)	U _N	[V]	3-phase 400 ((UL: 400 48	80)			
Input voltage range (AC) ²⁾	U _{in}	[V]	184 550 ±	-0				
Input voltage range (DC)	U _{indc}	[V]	260 750 ±	-0				
Mains frequency	f _N	[Hz]	50/60±2					
Output voltage	U _A	[V]	3 x 0 U _{IN}					
Output frequency	f	[Hz]	0 400 (fs=	=4 kHz) /	0 599 (fs=8	3 kHz)		

* 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 \geq 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, SMM, field-oriented with encoder, A.S.C.L. encoderless.
Application profile	CiA Draft Standard Proposal 402
Control mode	Asynchronous speed specification (Velocity Mode)
	Cycl. Synchronous speed specification (Cycl. Sync. Velocity Mode
	Cycl. Synchronous position specification (Cycl. Sync. Position Mode)
	Cycl. Synchronous torque specification (Cycl. Sync. Torque Mode)
	Single-axis positioning module (Profile Positioning Mode)
	Homing Mode
	Torque pilot control crank drives
GENERAL	
Product standard	EN 61800-2, -5-1
Power part with integrated EMC filter - EN	IC transient emissions
Grid-bound disturbance	EN 61800-3, C1 - 30 m / C2 - 50 m motor cable
Emitted disturbances	EN 61000-6 -14, C2
Protection class	IP 20 / VBG 4
Environment	EN 60721-3-3
	Operating temperature -10 45 °C
	Storage temperature -25 70 °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





ACCESSORIES

STABLE OPERATION IN INDUSTRIAL ENVIRONMENT

An EMC-compliant assembly with efficient control cabinet and suppression system is the basis for safe operation of machinery and equipment. The current and voltage limiting COMBILINE modules are optimally designed to meet the requirements of the COMBIVERT S6 servo system and support the use through:

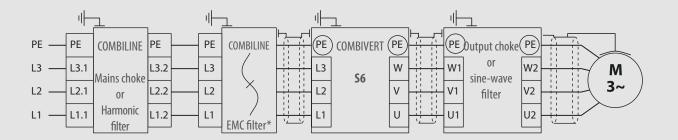


MAINS EMC FILTERS

specially designed for the COMBIVERT S6 power part version without internal EMC filter reduce the cablefed emission to the required limits IEC 618000-3 - C1-50 m/C2-100m. Main feature is the low leakage for multiple drive systems

					, -		
	I _N	P _v	l _{ab}	В	Н	Т	Weight
Part-No.	[A]	[W]	[mA]	[mm]	[mm]	[mm]	m [kg]
12E6T60-3000	12	8	<3	45	252	77	0.9
14E6T60-3000	22	14	<3	55	252	92	1.3
16E6T60-3000	43	18	<3	65	252	106	1.8
18E6T60-3000	65	27	<3	130	240	142	3.9

Three-wire HF-Filter 3-phases 400/480 V AC (UMAX = 550 V), 50/60 HZ \pm 10 %



* only for power parts without EMC filter

KEB

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.

		` max	,,				
	I _N	Pv	f _{Main}	В	Н	Т	Weight
Part-No.	[A]	[W]	[Hz]	[mm]	[mm]	[mm]	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
14Z1B04-1000	17.3	69	45-65	148	77	145	2.8
15Z1B04-1000	25.2	86	45-65	178	73	180	4.4
16Z1B04-1000	34.7	99	45-65	178	88	178	5.9
17Z1B04-1000	44.1	123	45-65	219	101	215	8.4
18Z1B04-1000	52.5	126	45-65	219	111	220	10

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

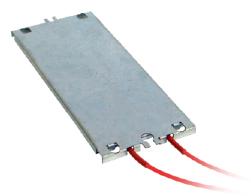


BRAKING RESISTOR

Braking resistors can be connected to the series terminals of the GTR7 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 resist	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									

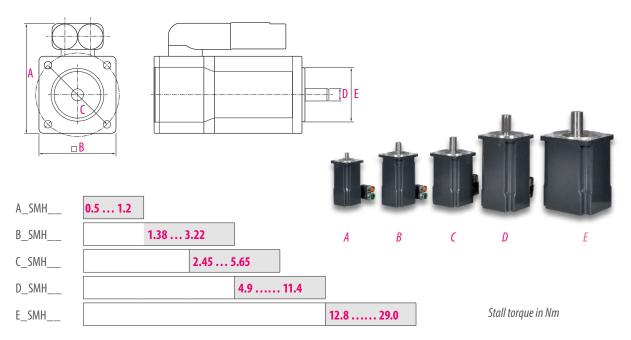


THE FURTHER OPTIONS ARE

Output chokes	reduce the voltage and current stress of the motor winding.
Sine-wave filters	protect the motor winding from voltage peaks and allow the use of long motor cables.
Harmonic filters	reduce the low frequency mains distortion of B6-rectifier supplied devices. These harmonic filters are the new
	innovative solution to comply to most international standards. The integration to a switch gear layout is as
	simple as of mains chokes.
Sine-wave EMC filters	allow operation of motors with long motor cables even without screening.
High performance ferrite cores	reduces the values of du/dt's also in the frequency range of the bearing currents.

SERVO MOTORS

SERVOMOTORS DYNAMIC LINE 3



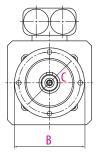
MOTOR	T _o [Nm]	T _N [Nm]	I _N [A]	ID _o [A]	N _N [rpm]	A [mm]	B □ [mm]	C Ø [mm]	D Ø [mm]	E Ø [mm]	BRAKE OPTION M _n [Nm]
A1	0.5	0.5	0.85	0.85							
A2SMHF_	0.8	0.7	1.30	1.50	8000	82.4	58	63	9	40	0.8
A3	1.2	1.0	1.85	2.20							
B1	1.4	1.3	1.90	1.95							
B2SMHF_	2.4	2.2	2.75	2.95	6000	96.4	72	75	14	60	2
B3	3.2	2.7	3.60	4.10							3.5
C1	2.5	2.3	2.90	3.00	6000						
C2SMHF_	4.1	3.7	3.80	4.10	5000	128.5	87	100	19	80	9
C3	5.7	4.9	4.75	5.40	5000						
D1	4.9	4.4	4.20	4.75	5000						9
D2SMHF_	8.2	6.9	5.20	6.30	4000	145.5	104	115	24	95	9
D3	11.4	8.4	6.30	8.80	4000						13
E1	12.8	11.0	6.80	7.80							20
E2SMHF_	21.1	15.2	9.40	12.4	3000	183.5	142	165	32	130	20
E3	29.0	13.2	8.10	17.2							30

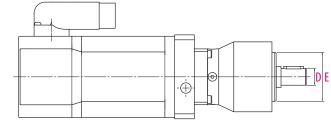


- 0.5 ... 29 Nm in five frame sizes
- Low inertia high impulse torque
- Resolver or absolute rotary encoder, HIPERFACE single or multi-turn
- High degree of total efficiency
- Lifetime lubricated
- Universal installation positions
- Robust mechanics (optional: COMBIPERM holding brake, keyway with key, IP65 shaft sealing)

MATCHED WITH COMBIVERT S6

PLANETARY GEAR SG PAIRED WITH DYNAMIC LINE 3:







KEB

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]			- MO mmei		
1	5 11	8 17.5	5000		15	50	44	12	35	Α				
2	15 28	24 45	4500	40	10	70	62	16	52	Α	В	С		
3	38 85	61 136	4000		7	90	80	22	68	Α	В	С	D	
5	95 115	152 136	3000	2	7	120	108	32	90		В	С	D	Ε
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



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

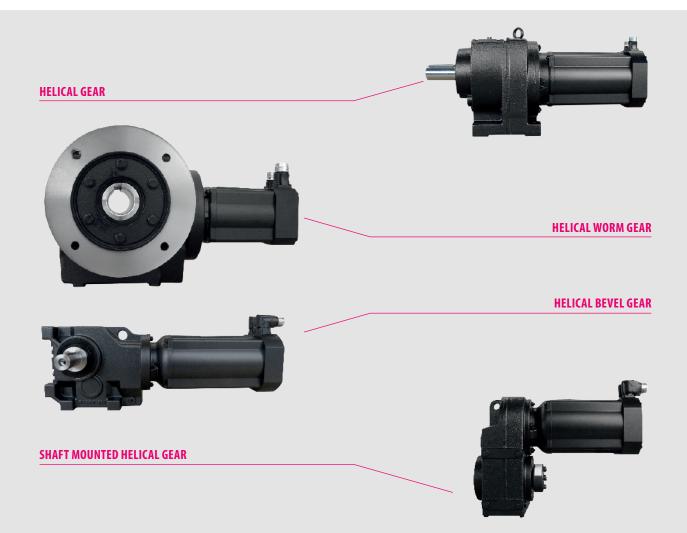
SERVO GEAR MOTORS

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.

ТҮРЕ	SIZE	DESIGN	T _N [Nm]	I	TA2	TA3	TA4	TA5
G	07	Helical gear	60 4880	3.37 250.97				
F	2 7	Shaft mounted helical gear	245 4880	3.20 274.23				
К	0 7	Helical bevel gear	58 4880	3.38 183.21				
S	0 4	Helical worm gear	55 1160	5.09 247.58				

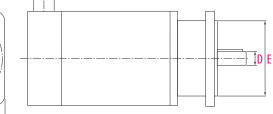


SERVO MOTORS - TA

KEB

SERVO MOTORS - TA SERIES









Stall torque in Nm

MOTOR	T _o	T _N	I _{D0}	I _N	N _N	В	C	D	E	BRAKE OPTION
	[Nm]	[Nm]	[A]	[A]	[rpm]	□[mm]	Ø [mm]	Ø [mm]	Ø [mm]	T _N [Nm]
TA21	0.82	0.85	0.9	0.87	4500	75	75	11	60	2.0
TA22	1.45	1.55	1.52	1.42	4500	75	75	11	00	2.0
TA31	1.5	1.4	1.1	1.1						
TA32	2.8	2.6	1.8	1.7	3000	88	100	14	80	4.5
TA33	3.9	3.6	2.5	2.4						
TA41	6.9	6.3	4.0	4.1						
TA42	9.2	8.2	5.9	5.2	3000	116	115	19	95	9
TA43	11.7	10.1	7.3	6.3						
TA51	11.5	10.4	7.4	6.6						
TA52	16.1	13.5	10.3	8.7	2000	145	165	24	130	18
TA53	20.0	16.1	12.8	10.3						

i

- 0.82 ... 20 Nm in four 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

SERVO MOTORS - 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

HIPERFACE FEEDBACK CABLES

for single and multi turn encoder

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

00S6L50-00_

cable length	130 m	in 1m step
	3550 m	in 5 m step

00S6L55-00__

cable length	130 m	in 1m step
	3550 m	in 5 m step

POWER CABLES

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

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

00H6L10-00_

cable length	130 m	in 1m step
	3550 m	in 5 m step

00S4519-00_

cable length	130 m	in 1m step
	3550 m	in 5 m step

SERVO MOTORS - TA CABLES

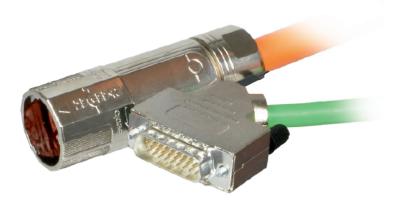
KEB

FEEDBACK AND POWER CABLES

Pre-fabricated encoder and motor and encoder cables ensure the easycommision 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 shielding.



RESOLVER FEEDBACK CABLES

• motor side connector - 16 pin M23 - Speedtec

• drive side connector D-sub 26 pin

00S6L50-10_

cable length	130 m	in 1m step
	35 50 m	in 5 m step

BISS FEEDBACK CABLES

for multi turn encoder

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

00S6L51-20___

cable length	130 m	in 1m step
	35 50 m	in 5 m step

POWER CABLES

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

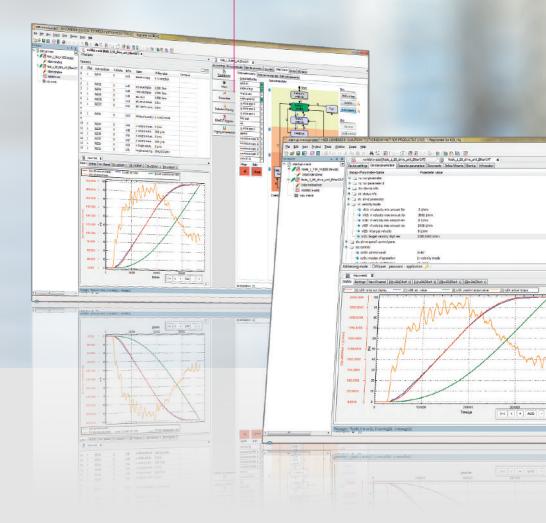
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cable length	130 m	in 1m step
	3550 m	in 5 m step

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 .



INTEGRATED DEVELOPMENT ENVIRONMENT

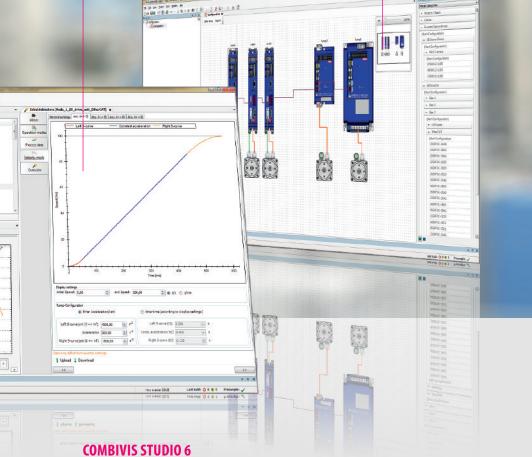


COMMISSIONING ASSISTANT

- 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 ...



COMPLAIS STOPIO 9

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.



- 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 PARTNER

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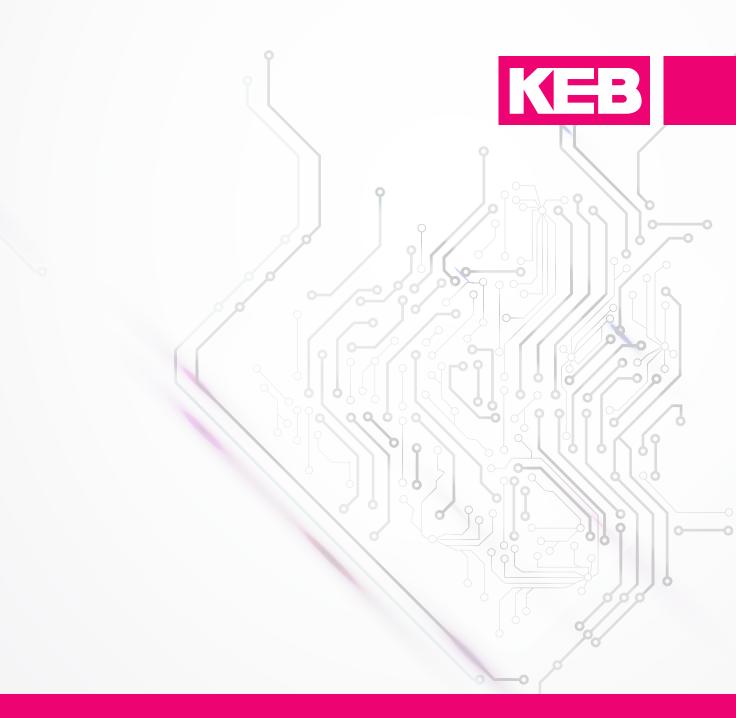


KEB PARTNERS WORLDWIDE

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Automation with Drive

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