



WITTENSTEIN

Small servo drive system connected to Siemens automation

dynamic
efficient
compact



Small servo drive system

Industrial-grade solution

Easy connection via TIA Portal with GSD file

Full spectrum of motion control functionalities available

Real-time capable fieldbuses

PROFINET

Easy and space-saving integration due compact design and top hat rail clip

Protection class IP20 or IP65*

Safety function STO (Safe Torque Off) according to SIL 3

Automatic motor parameterization due electrical identification

Stainless steel housing

High protection class up to IP69

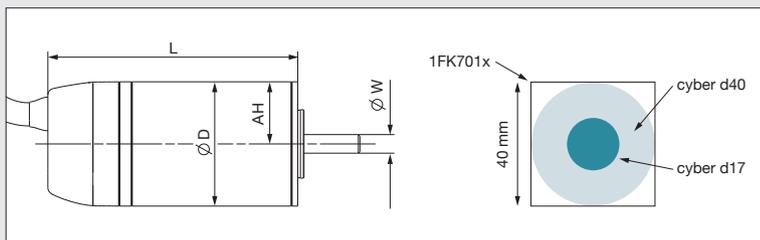
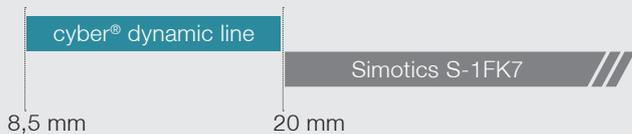
Hygienic Design with food grade lubrication optional

Integrated sensor Absolute singleturn encoder with resolution of 4096 positions (12 Bit)

Double shielded single cable solution for use in cable carriers

Portfolio supplement

Shaft height:



	Size	Unit	cyber d 17	cyber d 22	cyber d 32	cyber d 40
Shaft height	SH	mm	8,5	11	16	20
Diameter	D	mm	17	22	32	40
Motor length	L	mm	47	49	69	81
Shaft diameter	W	mm	3	4	6	6

Technical overview

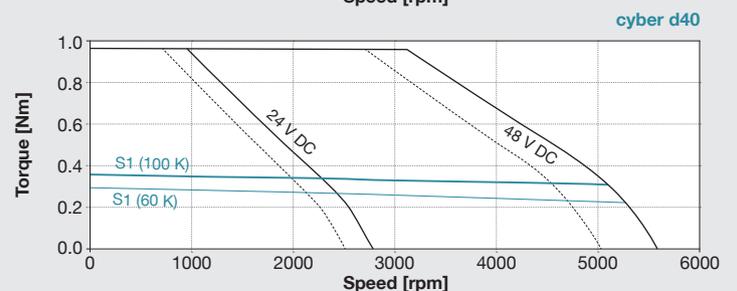
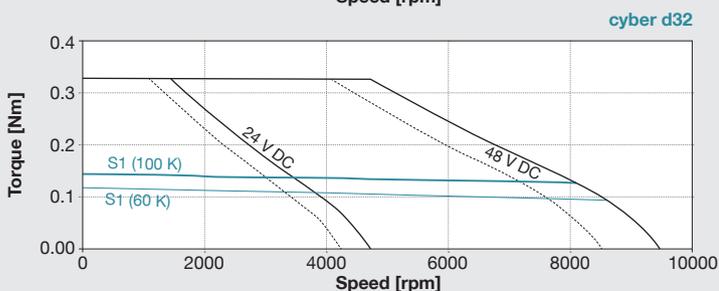
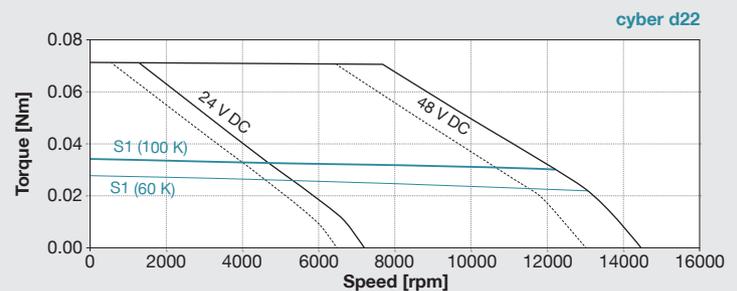
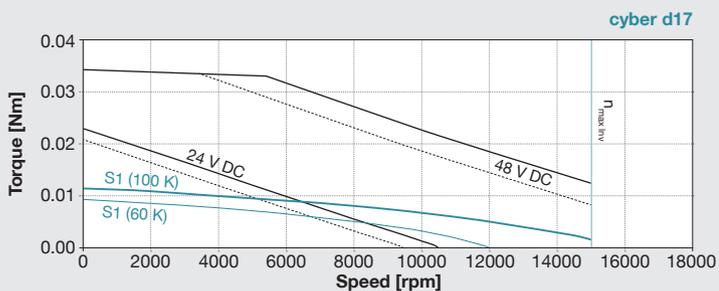
cyber[®] dynamic line & simco[®] drive

Servo motors

Type of motor	Nominal speed n_N min ⁻¹	Shaft height SH mm	Rated power P_N for $\Delta T = 100$ K W	Continuous stall torque M_0 for $\Delta T = 100$ K Nm	Rated torque M_N for $\Delta T = 100$ K Nm	Nominal current I_N for $\Delta T = 100$ K A	Number of pole pairs p -	Drive inertia J kgm ²	Weight m kg
circuit voltage	DC 48 V								
cyber d17	9690	8,5	7	0,012	0,0068	0,41	4	$5.2 \cdot 10^{-8}$	0,04
cyber d22	12400	11	39	0,034	0,03	0,86	4	$1.2 \cdot 10^{-7}$	0,06
cyber d32	8140	16	110	0,14	0,13	2,3	4	$5.7 \cdot 10^{-7}$	0,22
cyber d40	5090	20	164	0,35	0,31	3,3	4	$2.5 \cdot 10^{-6}$	0,43
Integrated sensor	Absolute singleturn encoder (BISS C)								
Protection class	IP 54, IP 66/67								
Planetary gearbox	1 to 3 stages (ratio i4 to i100)								

Servo drives

Type of drive	Protection class IP	Supply voltage (power) U_{DC} V_{DC}	Supply voltage (logic) U_{DC} V_{DC}	Nominal current I_N A_{eff}	Peak current I_{max} for 5 s A_{eff}	Rated power P_N W	Peak power P_{max} W	Current control resolution - Bit	Switching frequency f_{PWM} kHz	Weight m kg
circuit voltage	DC 48 V									
SIM2002	20	+24...+48	+24 (+/-10%)	2,5	5	125	250	14	8...32	0,3
SIM2002*	65	+24...+48	+24 (+/-10%)	2,5	5	125	250	14	8...32	0,85
SIM2010	20	+24...+48	+24 (+/-10%)	10	20	500	1000	14	8...32	0,3
SIM2010*	65	+24...+48	+24 (+/-10%)	10	20	500	1000	14	8...32	0,85

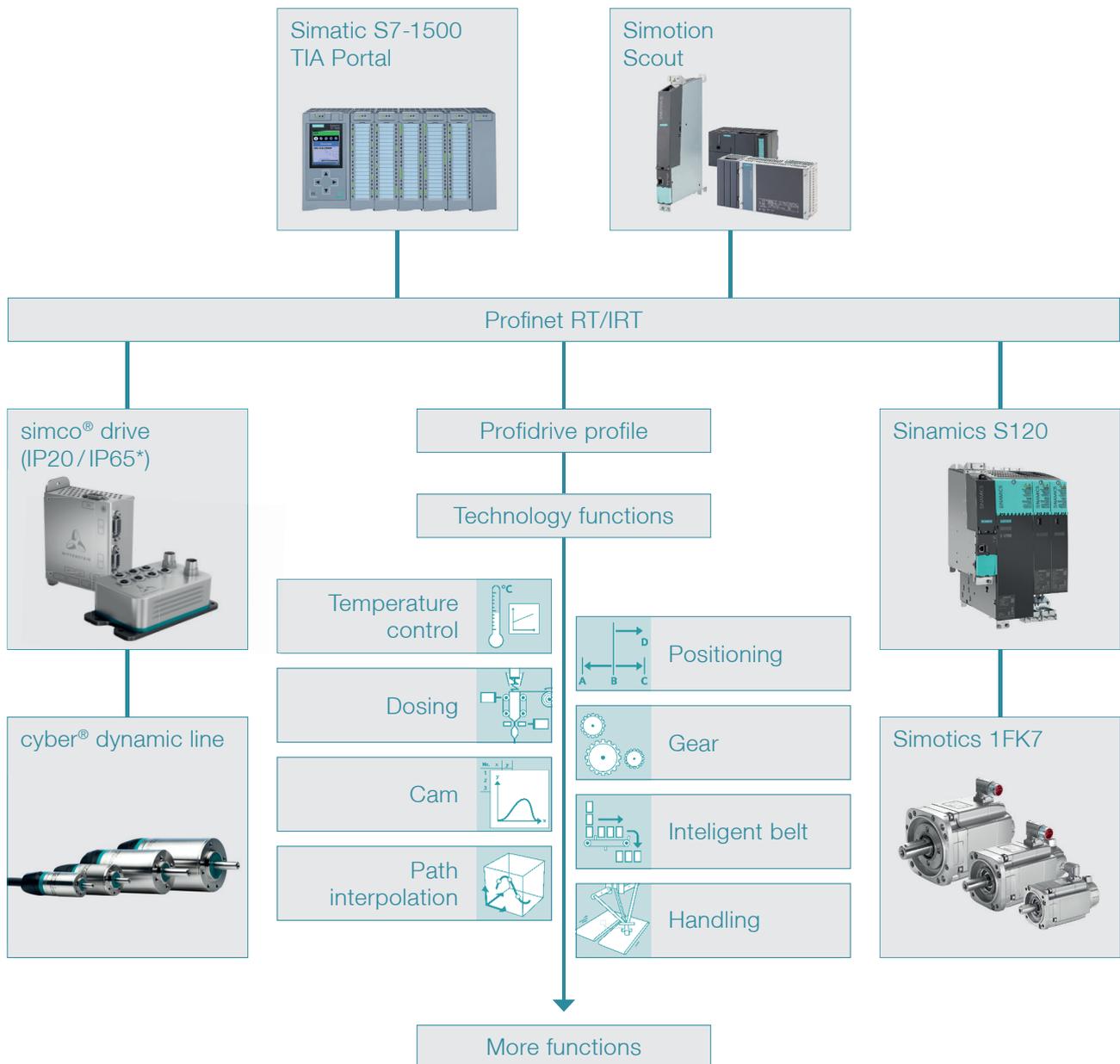


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Topology

Easy integration via Profidrive profile

- Integration of the WITTENSTEIN drive system to Siemens Software (TIA Portal, Simotion Scout) via GSD-XML
- Complete range of motion control related functional blocks and standard applications available for Simatic and Simotion can be used (e.g. camming, intelligent belt, ...)
- Connectivity to Siemens controller with Profinet RT/IRT (Simatic and Simotion) via Profidrive profile
- Easy configuration of the drive via GSD-XML and scripting in Simotion Scout
- Support of Profidrive application classes 1, 3, 4



*Availability on request

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