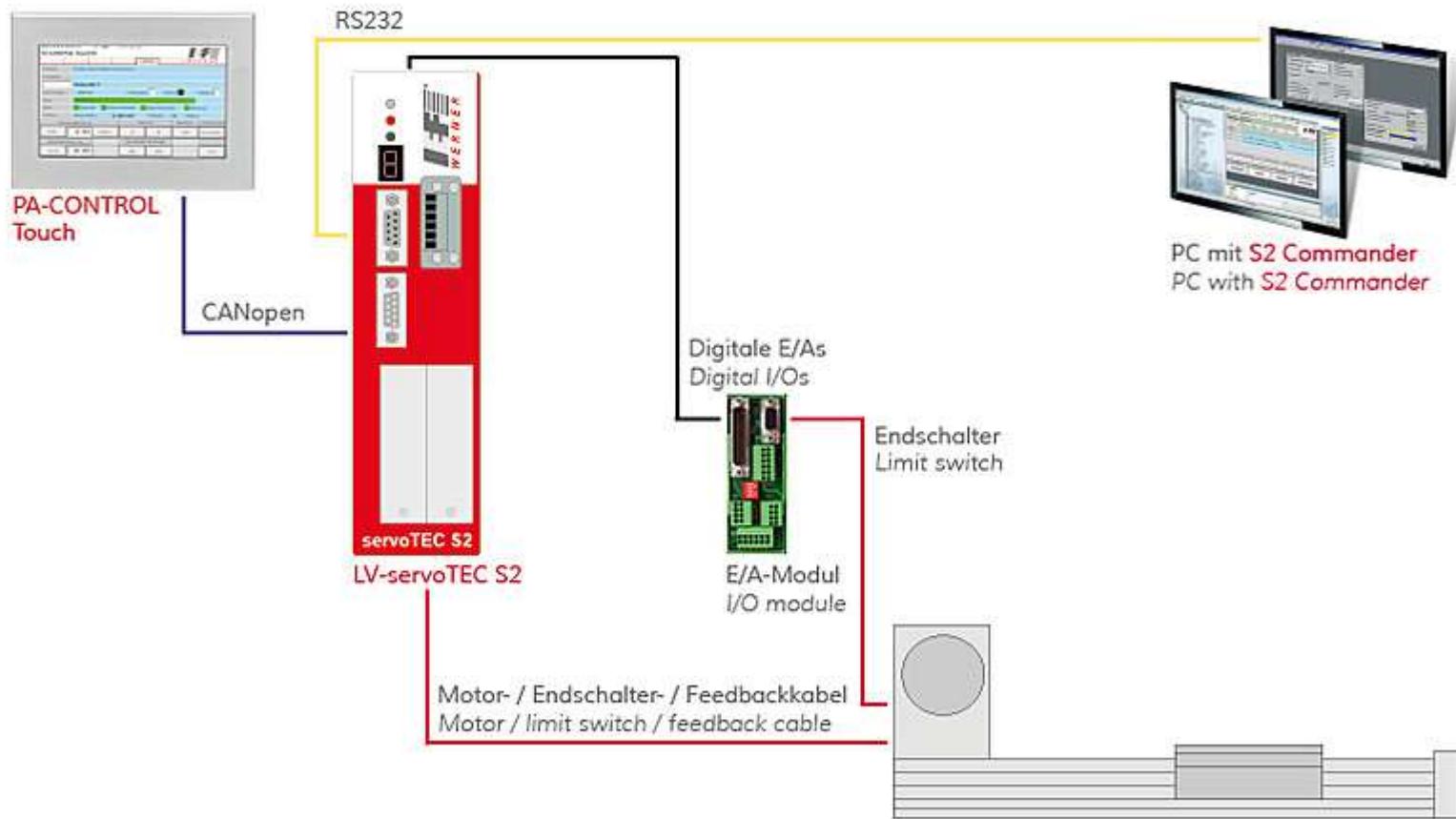


LV-servoTEC S2 FS



The intelligent AC-servo converter with integrated positioning control LV-servoTEC S2 FS enables extensive parameter setting possibilities for the flexible adaption to your application. The menu-driven parameter setting software [S2 Commander](#) and the automatic motor identification guarantee a fast and comfortable integration into automation systems.

Features

- output power up to 12 kVA
- self-adapting motor controller
- configurable encoder interface for resolver, incremental encoder, absolute value encoder single-/multiturn
- torque or speed control, positioning, synchronous operating modes
- CAN interface integrated in basic device
- special CAN-loopthrough modules in connection with several motor controllers
- automatic recognition of the controller in the PA-CONTROL network
- PC parameterisation via [S2 Commander](#) or [WINPAC](#)
- configured motor data base
- integrated EMC filter and brake chopper
- integrated power factor control to avoid circuit feedback (1-phase device)
- controlling via digital I/O
- safety functions "Safe Torque Off" (STO) and safely reduced speed (MOV)
- CE and UL certified

Technical data

encoder evaluation

universal encoder interface for motors with:

- resolver
- stegmann SinCos endcoder (single-/multiturn)
- EnDat 2.1/EnDat 2.2-interface

interfaces

- RS 232
- RS 485
- CANopen (DS 402)

	<ul style="list-style-type: none"> • Ethernet • USB
technology modules	<ul style="list-style-type: none"> • PROFIBUS-DP • profinet • IO module
inputs	<ul style="list-style-type: none"> • 10 x digital inputs (24 V, galvanically insulated) • 3 x analogue inputs (1 x 16 bit, 2 x 10 bit)
outputs	<ul style="list-style-type: none"> • 4 x digital outputs (24 V, galvanically insulated) • 2 x analogue outputs (+/- 10 V, 9 bit)

Technical data for 1-phase mains connection

type	LV-servoTEC S2 102 FS	LV-servoTEC S2 105 FS
motor current	2.5 A	5 A
max. motor current	10 A	20 A
dimensions (WxHxD) mm	54 x 225 x 200	54 x 225 x 200
weight	2.0 kg	2.1 kg
connection voltage	1 x 100 . . . 230 VAC (+/- 10%)	1 x 100 . . . 230 VAC (+/- 10%)
interim circuit voltage	360 . . . 380 VDC	360 . . . 380 VDC

Technical data for 3-phase mains connection

type	LV-servoTEC S2 302 FS	LV-servoTEC S2 305 FS	LV-servoTEC S2 310 FS
motor current	2.5 A	5 A	10 A
max. motor current	10 A	20 A	40 A
dimensions (WxHxD) mm	69 x 250 x 240	69 x 250 x 240	69 x 250 x 240
weight	3.6 kg	3.7 kg	3.7 kg
connection voltage	3 x 230 . . . 480 VAC (+/- 10%)	3 x 230 . . . 480 VAC (+/- 10%)	3 x 230 . . . 480 VAC (+/- 10%)

Optional security module MOV

- for safely reduced speed in accordance with EN 61800-5-2: STO, SS1, SS2, SLS, SSR, SSM, SOS, SBC
- depending on the used angle encoder SIL3 is accessible according to EN 61800-5-2 / IEC 61508, SIL-CL3 according to IEC 62061 or PLe / category 3 according to EN ISO 13849-1

Optional security module STO

- STO (Safe Torque Off) up to SIL3 according to EN 61800-5-2 / IEC EN 61508 or PLe according to EN 13849-1
- TÜV certified