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Optimum machine safety using Extended Safety Integrated functions

- Extended safety functions for Sinamics S210
- New firmware version V5.1 SP1 provides comprehensive protection of machine functions
- Encoders of Simotics S-1FK2 motors with new 22-bit resolution

Siemens extends the Sinamics S210 servo drive system to include the Extended Safety Integrated functions. The existing basic functions such as Safe Torque Off (STO), Safe Stop 1 (SS1) and Safe Brake Control (SBC) are now complemented by extended functions provided by the new firmware versions V5.1 SP1: Safe Stop 2 (SS2), Safe Operating Stop (SOS), Safely-Limited Speed (SLS), Safe Speed Monitor (SSM), Safe Direction (SDI), and Safe Brake Test (SBT). All of these functions ensure machine functions are provided with comprehensive protection. Also the encoders of the Simotics S-1FK2 motors have been updated, to support the new Extended Safety functions and provide an encoder resolution of 22 bits. The motors fitted with the new encoders can be used as replacement parts for previous models. Typical uses for the new drive system include in particular packaging machines, handling applications such as Pick & Place, wood and ceramic processing as well as digital printing.

The Extended Safety functions are activated by a license in the converter and are triggered by the higher-level Simatic S7-1500F and/or S7-1500 TF controller via Profisafe. STO and SS1 are activated by terminals and/or Profisafe.

The Sinamics S210 servo drive system consists of a converter and the specially developed Simotics S-1FK2 servomotors, which are available in five performance classes from 50 to 750 watts. The motors are connected to the converters using a One Cable Connection (OCC). The Sinamics S210 is particularly suited for the

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Press Release

dynamic control of motor axes, making sure that low loads can be moved particularly dynamically.

The converter is activated via a web server and one-button tuning.

The interaction between servomotors, quick sampling and smart control algorithms for the converters, a high-quality encoder system, low rotor inertia and high overload capacity provide this drive system with high dynamics and exceptional accuracy.



Siemens extends the Sinamics S210 servodrive system to include the Extended Safety Integrated functions. The existing basic functions such as Safe Torque Off (STO), Safe Stop 1 (SS1) and Safe Brake Control (SBC) are now complemented by extended functions provided by the new firmware versions V5.1 SP1: Safe Stop 2 (SS2), Safe Operating Stop (SOS), Safely-Limited Speed (SLS), Safe Speed Monitor (SSM), Safe Direction (SDI), and Safe Brake Test (SBT).

This press release and press pictures are available at www.siemens.com/press/PR2018030203DFEN

Press Release

For further information on Sinamics S210, please see <u>www.siemens.com/sinamics-S210</u>

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