

**Hannover Messe 2019, Hall 9, Booth D35**

## Versatile, seamless across the system, safety integrated: new servo drive system for protective extra-low voltage range

- **New Simatic Micro-Drive servo drive system for the protective extra-low voltage range system (<60VDC) with scope for individual combination**
- **Certified system enabling simple PLC connection**
- **Easy commissioning and servicing using the TIA Portal**
- **Fast, reliable communication over Profinet**
- **Safety Integrated with new SLT (Safely Limited Torque) function**

Siemens is extending its drive portfolio in the safety extra-low voltage range for DC/EC motors with 24 to 48 V by introducing a new servo drive system known as the Simatic Micro-Drive. The new system offers scope for individual combination with UL-certified components and comprises the PDC (Profidrive Control) servo converter in conjunction with a flexible range of motors and connecting cables. Simple connection to Simatic controllers helps significantly reduce the engineering workload, while integration into Siemens automation technology over the TIA Portal makes for simple commissioning and servicing. Communication takes place over Profinet IRT using Profisafe und Profidrive profiles. The new Safety Integrated function SLT (Safely Limited Torque) limits torque by monitoring motor current in running operation.

The integrated Simatic Micro-Drive system comes in four different housing sizes for motor outputs of between 0.05 and 1 kilowatts. In each of the motor output versions, the 4-quadrant drive features an integrated disconnectible brake chopper, which enables regenerative braking during battery operation. All the system's motion control functions are supplemented by additional controllers such as Simatic and Simotion. The STO, SS1, SLT, SLS, and SSM Safety Integrated functions are

included with the Simatic Micro-Drive F and FIO variants, while the SBC safety function only comes with the FIO variants. In operation, they use the safety I/Os of the FIO variants. The TIA Portal can be used to activate every one of the safety functions. All operating data can be transmitted directly to the controller from the Simatic Micro-Drive, and transferred to cloud platforms such as MindSphere over MindConnect. To address customer requirements with maximum flexibility, Siemens relies on product partnerships with companies such as Dunkermotoren, ebm-pabst, Harting and KnorrTec when it comes to the motors and connecting cables used for Simatic Micro-Drive. The servo drive system is suited to a wide range of diverse applications such as precise positioning, shuttles for storage and retrieval machines or warehousing systems, automatic guided vehicle systems (AGVs) medical technology.



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This press release and a press picture are available at

[www.siemens.com/press/PR2019020157DFEN](http://www.siemens.com/press/PR2019020157DFEN)

For further information regarding the Simatic Micro-Drive, please see

[www.siemens.com/micro-drive](http://www.siemens.com/micro-drive)

For further information on product partners Dunkermotoren, ebm-pabst, Harting and KnorrTec, please see [www.siemens.com/productpartner](http://www.siemens.com/productpartner)

For further information on Siemens at the Hannover Messe 2019, please see

[www.siemens.com/press/hm19](http://www.siemens.com/press/hm19) and [www.siemens.com/hannovermesse](http://www.siemens.com/hannovermesse)

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