

SMC3 RT-Ethernet Stepper Motor Controller

- Sercos® or EtherCAT® drive profile
- Positioning mode
- Operation with or without encoder
- Onboard I/Os
- 2-phase stepper motor interface

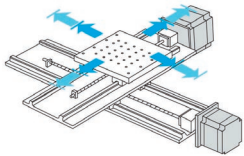
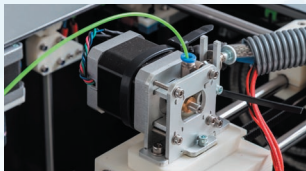
Stepper motors are ideal for cost-effective implementation of positioning functions. With the positioning mode of the **SMC3** stepper motor controller, such functions can now quickly and easily be integrated in **Sercos** or **EtherCAT** networks - without high programming effort.

In positioning mode the controller (PLC/CNC) just has to set a target position. This position is then approached with programmable velocity and acceleration values autonomously by the **SMC3**.

In addition to the positioning mode the **SMC3** supports cyclic velocity and position set values. All modes can be used with connected or without connected incremental encoder.

The onboard I/Os (4 digital outputs, 4 digital inputs and an encoder interface) allow the realization of a complete positioning axis with enable and status signals as well as inputs for limit and homing switches.

The stepper motor interface is designed for 2-phase motors with up to 256 microsteps at max. 6A current per phase and 48VDC supply.

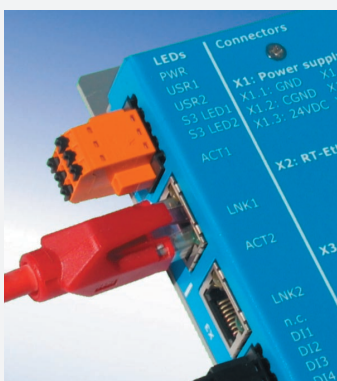
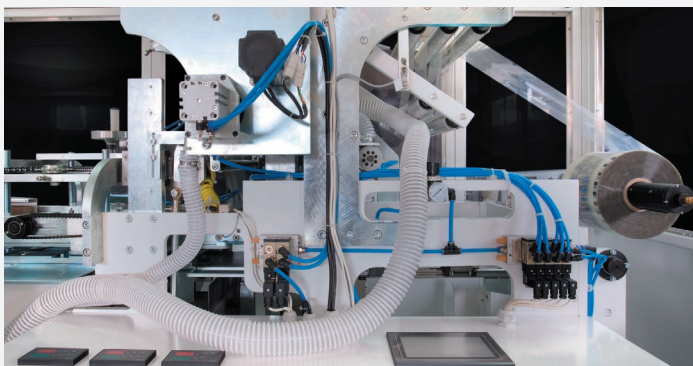


SMC3

SERCOS
the automation bus

EtherCAT

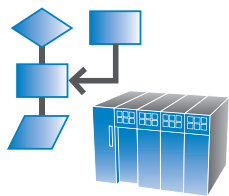
- **Sercos**
 - Drive profile (FSP-Drive)
 - I/O profile (FSP-IO) for onboard I/Os
 - FG-Probe for Touchprobe function
- **EtherCAT**
 - Drive profile (DS-402)



- **Operation modes**
 - Velocity mode
 - Position mode
 - Positioning mode
 - various homing modes
- **Operation with or without encoder**
- **SMC3** has already all I/Os onboard to realize a complete positioning axis (1 x encoder interface, 4 x DI, 4 x DO)

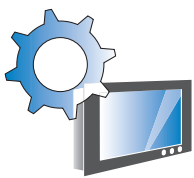
Technical Information		SMC3
CPU		32bit CPU
Field buses		Real-time Ethernet <ul style="list-style-type: none"> • Sercos (FSP-Drive, FG-Probe, FSP-IO for onboard-I/Os) • EtherCAT (DS-402)
Stepper motor interface		2-phase stepper motor <ul style="list-style-type: none"> • 6A current per phase • 48VDC supply • 256 microsteps
Onboard I/Os		<ul style="list-style-type: none"> • 4 x DigIN (24VDC) • 4 x DigOUT (24VDC/0.5A) • Incremental encoder interface with 5VDC or 24VDC encoder supply
Dimension	H x D x W	180 mm x 117 mm x 29 mm
Power supply		24VDC
Cooling		passive
Enclosure		aluminium/steel
Mounting		wallmount
Operation temperature		0°C ÷ +55°C
Protection class		IP20
Certifications		CE, RoHS

Automata Product Overview



Controls

- compact and modular controls for decentral and central system architectures
- IEC 61131-3 programmable
- Motion Control
- CAN, Sercos, Profibus, Ethernet



Industrial PCs and Operator Panels

- fanless
- scalable performance
- different form factors
- different operating systems
- SoftPLC & SCADA software



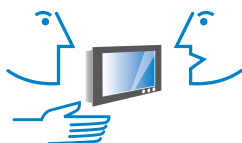
Sercos products

Realtime Ethernet

- Sercos hardware components and boards
- Master and slave driver software
- Control and IO systems
- Development, consulting, training

Customized solutions

We adapt our standards to your needs. As partner of the medium-sized machine building industry we are working exactly according to your needs. Not more and not less!



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AUTOMATA

Automata GmbH & Co. KG

Gewerbering 5

D-86510 Ried

Tel. +49 (0) 82 33 / 79 16 0

Fax +49 (0) 82 33 / 79 16 99

sales.de@cannon-automata.com

Automata S.p.A.

Via G. Carducci, 705

I-21042 Caronno Pertusella (VA)

Tel. +39 02 9639970

Fax +39 02 96399731

sales.it@cannon-automata.com

www.cannon-automata.com