

EMMS-AS servo motors and CMMP-AS motor controllers with extended functionality



The CMMP-AS servo motor controller family is a highly functional solution. It permits the electronic control of cam discs and safety-related functions.

Flexible

The universal function reserve offers maximum application flexibility. The multi firmware strategy makes it possible to use individually defined firmware versions.

Integrated

Festo's software philosophy: An integrated concept from the configuration using Festo Configuration Tool FCT right through to fieldbus.

Compatible

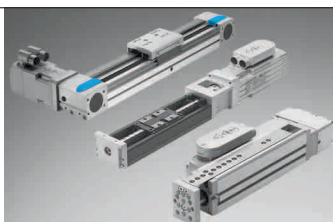
A wide range of fieldbus and Ethernet connections, now new: EtherCAT interface and the compatibility to all Festo servo motor series ensure there is a wide spectrum of uses.

Optimised: The motors and connections

Improvement of performance and operational safety thanks to a built-in digital absolute measuring system. Including a fine gradation of motor sizes and an extensive range of gear units.

Certified safety

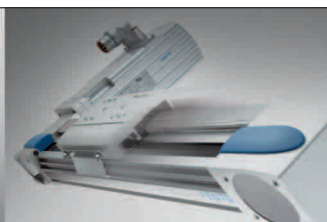
These devices permit the safety function "Safety Stop" as per 954-1/ cat.3. Others are in preparation.



Flexible!



Compatible!



Reliable!

122.1.PSI →

Product Short Information

EMMS-AS servo motors and CMMP-AS motor controllers with extended functionality

Technical data

- Primary voltage [VAC]: 100 ... 230
- Intermediate circuit voltage [VAC]: 360/600
- Motor current [amp]:
 - 2.5/5 single-phase inclusive PFC
 - 5/10 three-phase
- Multi firmware functionality
- Integrated mains filter/braking resistance
- External braking resistance (optional)
- 256 integrated positioning sets
- CE certification
- Functional module for Simatic S7 and Festo

Functions

- Configuration and parameterisation via FCT
- Motor temperature monitoring
- Automatic motor brake
- Expandability for 8 digital inputs and 8 digital outputs
- Intermediate stop input
- Capture inputs/floating measurement
- Floating measurement
- Judder-free positioning
- Flexible software proximity switch
- Endless positioning
- Traversing record linkage
- Safe Stop, EN 954/cat 3 and IEC 61508

- Operation with robotics control by continual position specifications
- Absolute value measurement Endat V2.x
- Function reserve for internal or external electronic cam disks, Cam disk editor CAMC-O-F1 as an option for producing synchronous movement profiles

Parameterisation/diagnostic interfaces

- RS232
- RS485

Functions of closed-loop operation

- RPM regulation
- Position control
- Current regulation
- Regulating torque

Actuation

- I/O:
 - Record selection
 - Jog/teach-in mode
 - Direct synchronised operation (Master/Slave)
- Pulse/direction and CW/Anti-CW
- Analogue setpoint value (+/-10 VDC)
 - Torque/speed
- RS485 (multicast suitable)
- Fieldbus
 - CANopen (integrated with FHPP or DS402)
 - Profibus (optional with FHPP or ProfiDrive)
 - DeviceNet (optional with FHPP)
 - Sercos (optional)
- Ethernet UDP (optional)
- New: EtherCAT Interface (optional)

EMMS-AS servo motors

- 8 Torque areas ranges
- Motor brake (optional)
- Single turn shaft encoder (standard)
- Absolute shaft encoder multi turn (optional)
- Matching programme of gear units available from stock Protection class



Protection class

- Motor housing and power/generator connection IP 65
- Motor shaft IP 41 (standard)
- Motor shaft IP 54 (optional with additional rotary shaft seal)

Motor controller CMMP-AS:

with optional EtherCAT interface and digital 8I/8O expansion



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