

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.

Compatible

The wide variety of field bus or Ethernet interfaces and the compatibility to all Festo servo motor series ensure there is a wide spectrum of uses. Including operation with robotics control.

Certified safety

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

Integrated

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

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.



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
- 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

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)

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)



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