

MOVI-C® FIELD CONTROLLER



Decentralized motion and logic controller

The MOVI-C® FIELD CONTROLLER can be operated on virtually all standard industrial fieldbus systems (PROFINET, EtherNet/IP™, Modbus TCP). As an EtherCAT®/SBusPLUS master, the MOVI-C® FIELD CONTROLLER controls drive axes in the “DSI” communication variant and other EtherCAT® devices. Up to 16 drive axes can be controlled and, thanks to optimized startup and diagnostics, the level of engineering work required is significantly reduced. The MOVI-C® FIELD CONTROLLER ensures systems can be easily modularized, thus easing the load on fieldbus networks.

Features/equipment	<ul style="list-style-type: none"> - Decentralized motion and logic controller - Can be linked to almost all conventional control systems (PROFINET, EtherNet/IP™, Modbus TCP) - Suitable for many applications thanks to housing's high degree of protection - High-performance and user-friendly startup: MOVIRUN® software platform modules for parameterization and programming - Operation: MOVIKIT® software modules, function blocks for straightforward speed control, positioning, mechanically coupled axes and much more besides - PROFI-safe routing to the axis modules - 1 × Ethernet (10/100 BaseT) for engineering or TCP/IP and UDP via IEC 61131-3 - 1 × EtherCAT®/SBusPLUS master with integrated star distributor - Optional: DO1 switch disconnector for disconnecting lower-level drive axes
MOVI-C® FIELD CONTROLLER standard	<ul style="list-style-type: none"> - 1 × CAN - Status display for PLC and fieldbus - SD memory card - ≤ 2 interpolating axes and ≤ 6 auxiliary axes - Web visualization
MOVI-C® FIELD CONTROLLER advanced	<ul style="list-style-type: none"> - 1 × CAN - 1 × RS485 - Status display for PLC and fieldbus - SD memory card - ≤ 8 interpolating axes and ≤ 8 auxiliary axes - Web visualization
Communication variants	<ul style="list-style-type: none"> - FHX.5A-N: PROFINET slave - FHX.5A-E: EtherNet/IP™ slave, Modbus TCP slave
Benefits	<ul style="list-style-type: none"> - End-to-end software platform featuring the controllers in the control cabinet technology range from SEW-EURODRIVE - Reduces system complexity and the capacity utilization of fieldbus networks thanks to straightforward modularization - Easy to replace lower-level drive components thanks to integrated data management - Supports condition monitoring - MOVIKIT® single- and multi-axis modules that have been tested in advance reduce costs and complexity; alternatively, users can also write their own programs - Simple, centralized data management using auto reload function for axis replacement

Plug connectors	<ul style="list-style-type: none"> - DC 24 V with M12 plug connector (5-pin, L-coded) as an option - Fieldbus connection (M12, 4-pin, D-coded) - EtherCAT®/SBus^{PLUS} connection (depending on configuration: MINI-IO, M12 or M23 hybrid plug connector) - AC 400 V connection for transferring to the lower-level drive axes - Optional: PA M23 hybrid plug connector (AC 400 V and DC 24 V) - Optional: PAC M23 hybrid plug connector (AC 400 V, DC 24 V and communication)
Certifications/conformity	<p>CE (Europe) / CMIM (Morocco) / RCM (Australia) / UA.TR (Ukraine) In preparation: EAC (Russia, Belarus and Kazakhstan) / UL-approved (USA and Canada)</p>
Areas of application	<ul style="list-style-type: none"> - From simple to intelligent conveyor lines or for other multi-axis applications (in combination with drive technology in the DSI communication variant) - A large number of applications with pretested software modules are possible

Dimensions and weight

MFC1. with FHX25A



MFC1. with FHX45A



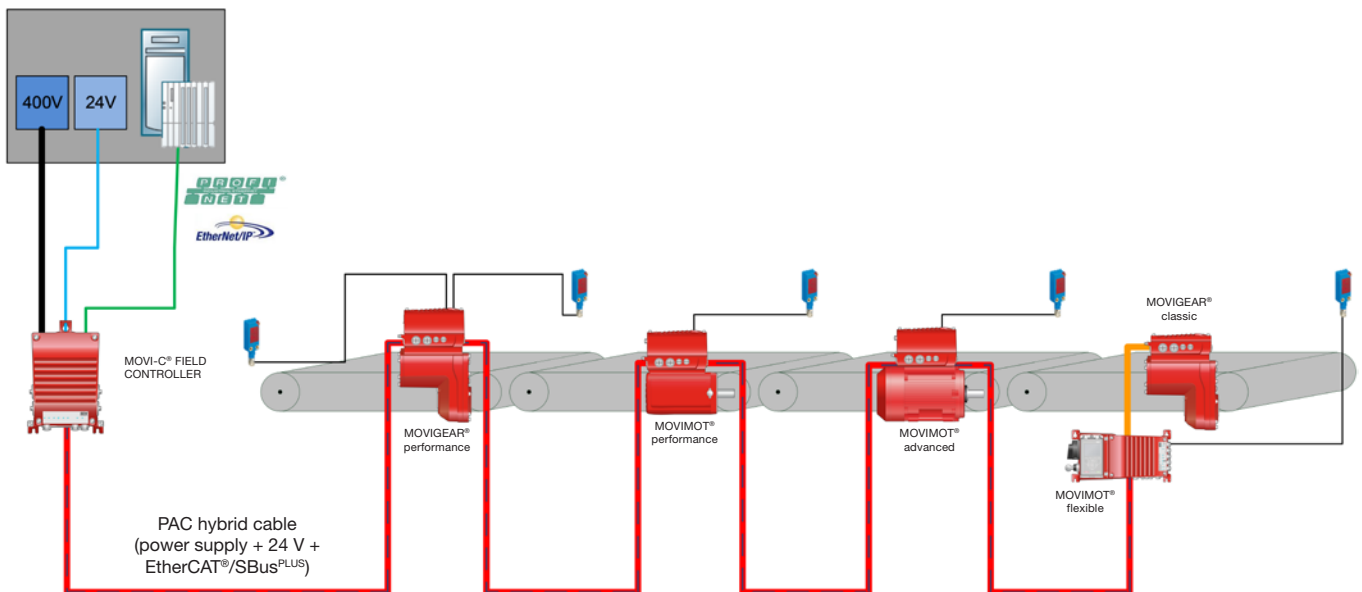
3.7 kg

3.7 kg

Ambient conditions

Degree of protection	IP65 to EN 60529
Ambient temperature	-25 °C to +60 °C (reduction in power from 40 °C)
Proof of mechanical strength	3M7/5M2 to DIN EN 60721-3-3/5

Example installation of MOVI-C® FIELD CONTROLLER with PAC hybrid cable



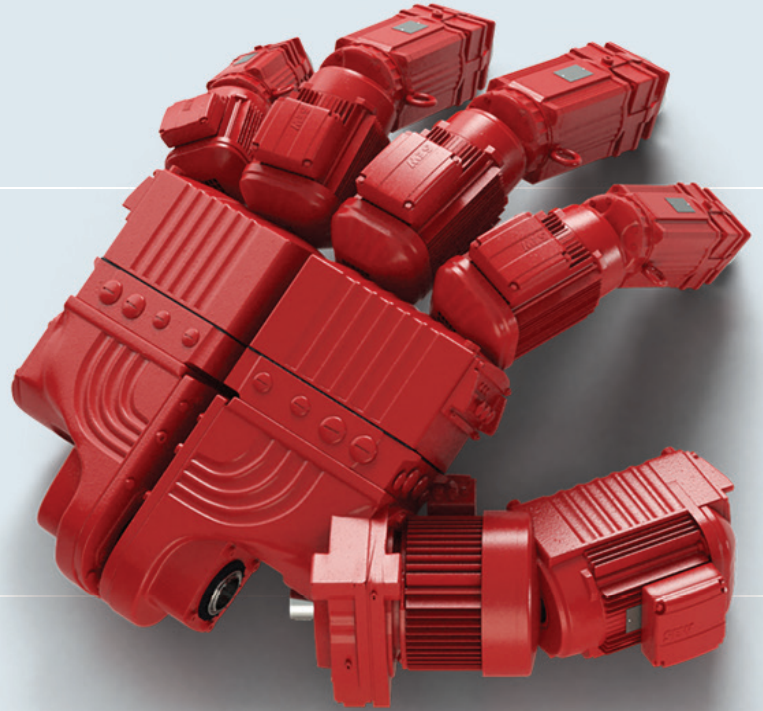
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TF: 1.800.972.5481

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