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Data Sheet

August 15, 2026

EMERSON MOTION CONTROL

Emerson Motion Control EP-225F-A Digital Output Module

The Emerson Motion Control EP-225F-A is a 16-point digital output module for the PACSystems™ RSTi-EP remote I/O system. Each output delivers 0.5 A at 24 VDC with positive logic switching up to 1 kHz on resistive loads. The module integrates into distributed control architectures via PROFINET RT, PROFIBUS, Modbus TCP, and EtherCAT protocols, enabling high-density I/O placement at point-of-use locations to minimize wiring infrastructure. Operating across -20°C to +60°C, the EP-225F-A features individual channel diagnostics, status LEDs, and hot-swap capability for live module replacement. The system bus operates at 48 Mbps, reading up to 256 discrete I/O points in 20 milliseconds. Independent input and output power buses allow selective channel activation without full module power cycling. Output Configuration: 16 channels, positive logic, 0.5 A @ 24 VDC per point, 1-Wire connection Elec



MODEL

Emerson Motion Control EP-225F-A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EP-225F-A

LISTING

<https://aumictechlabs.com/products/ep-225f-a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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to 1 kHz on resistive loads. The module integrates into distributed control architectures via PROFINET RT, PROFIBUS, Modbus TCP, and EtherCAT protocols, enabling high-density I/O placement at point-of-use locations to minimize wiring infrastructure. Operating across -20°C to +60°C, the EP-225F-A features individual channel diagnostics, status LEDs, and hot-swap capability for live module replacement. The system bus operates at 48 Mbps, reading up to 256 discrete I/O points in 20 milliseconds. Independent input and output power buses allow selective channel activation without full module power cycling. Technical Specifications

Output Configuration: 16 channels, positive logic, 0.5 A @ 24 VDC per point, 1-Wire connection

Switching Capability: Up to 1 kHz on resistive loads

Electrical Requirements: 20.4–28.8 VDC input; 8 mA system bus consumption; 20–25 mA + load per output path

Communication Protocols: PROFINET RT, PROFIBUS, Modbus TCP, EtherCAT

System Bus: 48 Mbps transfer rate; reads 256 DI/DOs in 20 milliseconds

Physical Form: 11.5 mm width, 76 mm depth, 120 mm height; DIN rail mount

Environmental: -20°C to +60°C operating; -40°C to +85°C storage; 5–95% humidity (non-condensing)

Key Features

- Individual channel status monitoring with dedicated LEDs
- Module-level diagnostics and status indication
- Hot-swap installation without system shutdown
- Plug-and-play connectivity
- Independent output power bus for selective channel control
- Compact, high-density form factor

Agency Approvals UL, UL HazLoc Class 1 Division 2, CE, ATEX Zone 2, TÜV SIL3, CCC, Marine DNV GL

Compatibility & Integration The EP-225F-A integrates exclusively within PACSystems™ RSTi-EP systems, supporting process, parameter, and diagnostic data exchange across multiple industrial networks.

EP225FA Characteristics / Specifications

PARAMETER	VALUE
Model	EP-225F-A
Instrument Type	Digital output module
Family	Control Techniques / Emerson Motion EP option modules
Related Digital In	EP-125F-A digital input module
Related Analog In	EP-3264-AA analog input module
Host	Unidrive / Mentor class drive or motion rack
Form Factor	EP option module
Manufacturer	Emerson Motion Control / Control Techniques
Use Case	discrete digital outputs from a drive
Control	drive parameter / fieldbus map
Operating Temperature Class	drive cabinet
Literature	Emerson EP-225F-A digital output module listings
Io Type	digital output
Revision	A
Connector Class	EP module terminal block
Logic Class	industrial 24 V class digital outputs
Isolation Class	option-module isolation per EP sheet
Documentation Type	OEM drive option catalog
Brand Lineage	Control Techniques Emerson
System Role	digital output expansion
Slot	EP option slot
Power	from host drive backplane class
Operating temperature	Class: drive cabinet

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: drive cabinet
Operating Temperature	Class: drive cabinet
Operating Temperature Class	drive cabinet
Literature	Emerson EP-225F-A digital output module listings
Io Type	digital output
Revision	A
Connector Class	EP module terminal block
Logic Class	industrial 24 V class digital outputs
Isolation Class	option-module isolation per EP sheet
Documentation Type	OEM drive option catalog
Brand Lineage	Control Techniques Emerson
System Role	digital output expansion
Slot	EP option slot
Power	from host drive backplane class Notes From Emerson / Control Techniques EP-225F-A digital-output-module catalog identity. Channel count, voltage, and current per point are on the EP-225F-A option sheet.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.