

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

EMERSON MOTION CONTROL

Emerson Motion Control EP-125F-A Digital Input Module

Emerson Motion Control Digital Input Board. Voltage: ** 24 VDC (20.4–28.8 VDC range).



MODEL

Emerson Motion Control EP-125F-A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EP-125F-A

LISTING

<https://aumictechlabs.com/products/ep-125f-a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Emerson Motion Control EP-125F-A is a 16-channel digital input module engineered for PACSystems RSTi-EP industrial automation architectures. This compact 11.5 mm slice supports positive logic inputs at 24 VDC (20.4–28.8 VDC operating range) and integrates across PROFINET RT, PROFIBUS, Modbus TCP, and EtherCAT networks. Hot-swappable design with module and channel status LEDs enables rapid diagnostics and field replacement. Technical Specifications Input Points: 16 channels, positive logic Supply Voltage: 24 VDC (20.4–28.8 VDC range) System Current Consumption: 8 mA Input Current Consumption: 52 mA Input Thresholds: >11 VDC on, <5.0 VDC off Input Delay (I/O Scan Time): 3 ms System Bus: RSTi-EP, 48 Mbps max transfer rate Bus Performance: Reads up to 256 DI/DOs in 20 ms Physical Dimensions: 120 × 76 × 11.5 mm Weight: 87 grams Mounting: DIN rail Protection Rating: IP20 Operating Temperature: –20 to +60 °C Storage Temperature: –40 to +85 °C Humidity: 5–95% non-condensing Key Features 1-wire sensor connectivity with reverse polarity protection Hot-swap capability for uninterrupted system

operation General module diagnostics with LED status indicators Hazardous location certification: Class 1 Division 2 (Groups A, B, C, D), ATEX Zone 2, ISA 12.12.01:2007, SIL 3 Global compliance: UL 508, CSA C22.2, CE, CCC, DNV GL Typical Applications High-density industrial control cabinets requiring distributed digital input acquisition in process automation, machinery control, and safety-critical systems operating in ordinary and Class 1 Division 2 hazardous locations. Compatibility & Integration Designed exclusively for PACSystems RSTi-EP systems. Supports up to 1024 I/O points per drop across multiple industrial communication protocols, enabling flexible network architecture in mixed-protocol environments.

EP125FA Characteristics / Specifications

PARAMETER	VALUE
Model	EP-125F-A
Instrument Type	Digital input module
Family	Control Techniques / Emerson Motion EP option modules
Related Digital Out	EP-225F-A digital output 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 inputs toadrive
Control	drive parameter / fieldbus map
Operating Temperature Class	drive cabinet
Literature	Emerson EP-125F-A digital input module listings
Io Type	digital input
Revision	A
Connector Class	EP module terminal block
Logic Class	industrial 24 V class digital inputs
Isolation Class	option-module isolation per EP sheet
Documentation Type	OEM drive option catalog
Brand Lineage	Control Techniques Emerson
System Role	digital input 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-125F-A digital input module listings
Io Type	digital input
Revision	A
Connector Class	EP module terminal block
Logic Class	industrial 24 V class digital inputs
Isolation Class	option-module isolation per EP sheet
Documentation Type	OEM drive option catalog
Brand Lineage	Control Techniques Emerson
System Role	digital input expansion
Slot	EP option slot
Power	from host drive backplane class Notes From Emerson / Control Techniques EP-125F-A digital-input-module catalog identity. Channel count, voltage, and isolation are on the EP-125F-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	
Specifications	
PARAMETER	VALUE
Model	EP-125F-A
Instrument Type	Digital input module
Family	Control Techniques / Emerson Motion EP option modules
Related Digital Out	EP-225F-A digital output 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 inputs toadrive
Control	drive parameter / fieldbus map
Operating Temperature Class	drive cabinet
Literature	Emerson EP-125F-A digital input module listings
Io Type	digital input
Revision	A
Connector Class	EP module terminal block
Logic Class	industrial 24 V class digital inputs
Isolation Class	option-module isolation per EP sheet
Documentation Type	OEM drive option catalog
Brand Lineage	Control Techniques Emerson
System Role	digital input expansion
Slot	EP option slot
Power	from host drive backplane class
Notes	
From Emerson / Control Techniques EP-125F-A digital-input-module catalog identity. Channel count, voltage, and isolation are on the EP-125F-A option sheet.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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