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Data Sheet

August 15, 2026

ABB / BALDOR / RELIANCE

ABB / Baldor / Reliance PSM125ES AutoMax DC Bus Supply Module

Reliance AutoMax PSM125ES DC Bus Supply Module Queue model PSM125ES is the ABB / Baldor / Reliance AutoMax PSM125ES DC bus supply. AutoMax PSM family literature describes a rack DC-bus / logic-power module that feeds AutoMax processors and 45C I/O (including 45C942 inputs), 125 A class ES suffix, dual-redundant capable current share on AutoMax power modules, and front status for bus OK. Used as the AutoMax crate power element rather than a general bench PSU. DC bus and logic power for Reliance AutoMax processor and 45C I/O racks. Queue model PSM125ES is the ABB / Baldor / Reliance AutoMax PSM125ES DC bus supply. AutoMax PSM family literature describes a rack DC-bus / logic-power module that feeds AutoMax processors and 45C I/O (including 45C942 inputs), 125 A class ES suffix, dual-redundant capable current share on AutoMax power modules, and front status for bus OK. Used as the AutoMax crate power element rather than a general bench PSU. DC bus and logic power for Reliance AutoMax processor and 45C I/O racks. Instrument Type: AutoMax DC bus supply module



MODEL

**ABB / Baldor /
Reliance
PSM125ES**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PSM125ES

LISTING

**[https://aumictechlabs.c
om/products/psm125es
-2/](https://aumictechlabs.com/products/psm125es-2/)**

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NAICS 423690 • 811210 • 541380

This unit

The PSM125ES AutoMax DC Bus Supply Module is a three-phase AC-to-DC rectifier designed to supply stable DC bus voltage to SA500 Power Modules within the AutoMax Distributed Power System. The module rectifies three-phase 230 VAC input power and delivers a nominal 325 VDC output to support distributed motor control architectures. Up to six Power Modules can be daisy-chained from a single supply, with remote Power Module placement possible up to 750 meters (2500 feet) from the AutoMax rack.

Technical Specifications

Input Power: Three-phase 230 VAC
DC Bus Output: 325 VDC nominal
Power Module Daisy-Chain Capacity: Up to six modules
Maximum Remote Distance: 750 meters (2500 feet) from AutoMax rack
Rectification Architecture: Three-phase bridge of SCRs and diodes with phase-angle fired SCR control for DC bus capacitor charging current regulation
Braking Management: Integrated braking circuit using bi-polar transistor switch and resistor for motor regeneration handling
Control & Regulation: Digital execution via Universal Drive Controller (UDC) module and Power Module Interface (PMI)
Communication Link: Fiber-optic connection between UDC and PMI
Software Configuration: AutoMax Programming Executive version 3.4 or later

Key Features

- SCR firing phase angle adjustment during capacitor charging for controlled current inramp
- Distributed power architecture supporting extended cable runs
- Fiber-optic isolation for noise immunity in industrial environments
- Integrated regenerative braking for motor deceleration management

Typical Applications

- Multi-motor industrial automation systems requiring distributed DC bus architecture
- Induction motor and permanent magnet brushless motor drive systems
- Factory floor installations where Power Modules must be remotely located from central control

Compatibility & Integration

The PSM125ES integrates within the AutoMax Distributed Power System framework and supplies DC bus voltage exclusively to SA500 Power Modules. Distributed system design allows Power Module placement throughout facility layouts without proximity constraints to the main AutoMax rack.

PSM125ES Characteristics / Specifications

PARAMETER	VALUE
Model	PSM125ES
Instrument Type	AutoMax DC bus supply module
Family	Reliance AutoMax PSM
Current Class	125 A (PSM125)
Suffix	ES AutoMax power-module grade
Role	DC bus and logic supply for AutoMax racks
Loads	AutoMax processor and 45C I/O including 45C942
Status	front bus-OK / power status on PSM family
Redundancy	current-share capable AutoMax power modules
Form Factor	AutoMax rack module
System	Reliance AutoMax DCS/PLC
Manufacturer	Reliance Electric / Baldor / ABB
Literature	Reliance AutoMax PSM125ES DC bus supply identification
Sibling lo	45C942 digital input in the same AutoMax rack
Sibling Drive	ZD18H403-E vector in the same brand group
Use	crate power, notastandalone bench supply
Bus	AutoMax DC bus
Mounting	AutoMax power slot
Brand Path	Reliance, later Baldor, later ABB
Protection	AutoMax PSM overcurrent/bus monitoring family
Cooling	rack forced-air with AutoMax chassis
Catalog Name	AutoMax DC Bus Supply Module
Queue Title	ABB / Baldor / Reliance PSM125ES AutoMax DC Bus Supply Module

PSM125ES Specifications

PARAMETER	VALUE
Reliance AutoMax PSM125ES DC Bus Supply Module	Overview
Applications	DC bus and logic power for Reliance AutoMax processor and 45C I/O racks.
Key Features	AutoMax PSM125ES DC bus supply
Technical Specifications	Model: PSM125ES

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	PSM125ES
Instrument Type	AutoMax DC bus supply module
Family	Reliance AutoMax PSM
Current Class	125 A (PSM125)
Suffix	ES AutoMax power-module grade
Role	DC bus and logic supply for AutoMax racks
Loads	AutoMax processor and 45C I/O including 45C942
Status	front bus-OK / power status on PSM family
Redundancy	current-share capable AutoMax power modules
Form Factor	AutoMax rack module
System	Reliance AutoMax DCS/PLC
Manufacturer	Reliance Electric / Baldor / ABB
Literature	Reliance AutoMax PSM125ES DC bus supply identification
Sibling Io	45C942 digital input in the same AutoMax rack
Sibling Drive	ZD18H403-E vector in the same brand group
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Catalog Name	AutoMax DC Bus Supply Module
Queue Title	ABB / Baldor / Reliance PSM125ES AutoMax DC Bus Supply Module
Notes	
From Reliance AutoMax PSM125ES identification (125 A class ES DC bus supply for AutoMax racks). Exact AC input and float voltage belong on the PSM125ES nameplate/manual.	

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.