

Allen-Bradley PowerFlex 525 AC Drive with 480V Sensorless Vector Control and Embedded EtherNet/IP

Our Product Introduction

Basic Information

- Place of Origin: USA
- Brand Name: Allen-Bradley
- Certification: ATEX
- Model Number: 25B-D6P0N114
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: carton
- Delivery Time: Negotiable
- Payment Terms: T/T
- Supply Ability: 100pcs per month



Product Specification

- Highlight: **480V AC Drive,
Sensorless Vector Control PowerFlex 525,
Embedded EtherNet/IP Allen-Bradley Drive**

Product Description

Allen-Bradley 25B-D6P0N114 PowerFlex 525 AC Drive: 2.2kW, 480V, Sensorless Vector Control

Product Overview

The Allen-Bradley 25B-D6P0N114 is a compact AC drive from the PowerFlex 525 series, engineered for precise motor control in industrial automation. It integrates sensorless vector control and embedded communication protocols to deliver high torque, energy efficiency, and flexible integration for diverse applications, from pump control to material handling systems.

Technical Specifications

Parameter	Specification
Model Number	25B-D6P0N114
Brand/Series	Allen-Bradley PowerFlex 525
Rated Power	2.2 kW (3.0 HP)
Output Current	6.0 A
Input Voltage	380-480V AC, 3-Phase
Control Methods	Volts per Hertz (V/Hz), Sensorless Vector Control
Communication	Embedded EtherNet/IP; supports DeviceNet, ControlNet (via optional modules)
Safety Compliance	Optional Safety Torque Off (STO) (PLd, SIL 2, Category 3)
Enclosure Rating	IP20 (NEMA/UL Open Type)
Key Features	Built-in EMC Filter, StepLogic™ Sequencing, Flying Start, Process PID Control

Key Features

Advanced Motor Control: The drive supports sensorless vector control, enabling high starting torque (up to 150% at low speeds) and precise speed regulation without an encoder. This ensures stable performance under variable loads, such as conveyor systems or mixing applications.

Integrated Connectivity: With embedded EtherNet/IP and support for optional communication modules (e.g., DeviceNet, Profibus DP), the drive seamlessly integrates into industrial networks for real-time monitoring and control.

Compact and Flexible Design: The compact chassis allows side-by-side mounting with zero gaps, optimizing panel space. It supports DIN rail, panel, or flange mounting for easy installation in space-constrained environments.

User-Friendly Configuration: An integrated keypad and software tools (e.g., Connected Components Workbench) simplify setup. Features like StepLogic™ enable programmable sequence control for automated operations without external PLCs.

Safety and Durability: The optional Safety Torque Off (STO) function meets stringent safety standards (PLd, SIL 2), while conformal coating protects against harsh industrial conditions like dust or humidity.

Application Scenarios

Material Handling: Ideal for conveyors, sorters, and cranes requiring precise speed control and high torque for smooth acceleration/deceleration.

Pump and Fan Control: Optimizes energy efficiency in fluid systems using built-in PID control to adjust motor speed based on demand, reducing energy costs by up to 30%.

Packaging Machinery: Maintains consistent tension and speed in wrappers, fillers, and labelers, ensuring high production accuracy.

OEM Equipment: Suitable for integration into industrial machinery (e.g., mixers, extruders) where reliability, compact size, and communication flexibility are critical.

Note: Specifications are based on manufacturer data and industry sources. Always verify parameters against the latest technical documentation for specific applications.



Since Year 2012

About Achievers Automation Limited

Achievers Automation Limited is a well-established player in the field of industrial automation with over 12 years of experience. The company provides a comprehensive range of industrial automation components and instruments to customers in over 45 countries worldwide.



Frequently Asked Questions

Q: Are the Products Genuine OEM Units?

A: These items have been certified by Achievers Automation Limited to be genuine OEM Units obtained through OEM or independent third-party channels.

Q: How will you arrange shipment?

A: We can arrange shipment based on your request. We have cooperated forwarders who can arrange shipment via FedEx, DHL, TNT with competitive pricing.

Q: What is the warranty of goods?

A: One-year Warranty.



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