

Allen-Bradley PowerFlex 40P AC Drive with 2.2kW Power 480V Input and Sensorless Vector Control for Industrial Automation

Our Product Introduction

Basic Information

- Place of Origin: USA
- Brand Name: Allen-Bradley
- Certification: ATEX
- Model Number: 22B-D6P0N104
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: carton
- Delivery Time: Negotiable
- Payment Terms: T/T
- Supply Ability: 100pcs per month



Product Specification

- Highlight: 2.2kW AC Drive, 480V PowerFlex 40P, Sensorless Vector Control Drive



Product Description

Allen-Bradley 22B-D6P0N104 PowerFlex 40P AC Drive

2.2kW, 480V, Sensorless Vector Control | Technical Specifications & Applications

Product Overview

The Allen-Bradley 22B-D6P0N104 is a high-performance AC drive from the PowerFlex 40P series, engineered for precision motor control in industrial automation. Designed with sensorless vector technology and a compact form factor, it delivers robust performance for applications requiring dynamic speed regulation, high starting torque, and energy efficiency. Its integrated features, including built-in EMC filtering and communication options, make it suitable for diverse industrial environments, from manufacturing to material handling.

Technical Specifications

Parameter	Specification
Model Number	22B-D6P0N104
Brand/Series	Allen-Bradley PowerFlex 40P
Input Voltage	380-480V AC, 3-Phase
Rated Output Current	6.0 A
Motor Power Rating	2.2 kW (3.0 HP)
Control Methods	Sensorless Vector Control, Volts per Hertz (V/Hz)
Communication Interface	Integrated RS-485; supports DeviceNet, ControlNet, EtherNet/IP (via optional modules)
Enclosure Rating	IP20 (Open Type)
Key Features	Built-in EMC Filter, StepLogic™ Sequencing, Flying Start, Process PID Control
Safety Compliance	Optional Safety Torque Off (STO) (PLd, SIL 2, Category 3)

Key Features

Advanced Control Capabilities: The drive supports sensorless vector control, enabling high starting torque (up to 150% at low speeds) and precise speed regulation without encoder feedback. This is critical for applications with variable loads or rapid dynamic responses.

Compact and Space-Efficient Design: Engineered for zero-gap side-by-side mounting, the drive minimizes control panel space while maintaining thermal performance. Its modular design allows DIN rail, panel, or flange mounting for flexibility in integration.

Integrated Communication and Connectivity: The built-in RS-485 port facilitates seamless integration into industrial networks. Optional communication modules (e.g., DeviceNet, EtherNet/IP) enable real-time data exchange and remote monitoring via platforms like Connected Components Workbench.

User-Friendly Configuration: An integrated LCD keypad and software tools simplify setup, reducing commissioning time. Features like StepLogic™ allow programmable sequence control for automated operations without external PLCs.

Enhanced Safety and Compliance: The optional Safety Torque Off (STO) function meets stringent safety standards (PLd, SIL 2), ensuring safe operation in high-risk environments. Conformal coating protection enhances durability in harsh conditions.

Application Scenarios

Material Handling Systems: Ideal for conveyors, sorters, and diverters requiring precise speed control and high torque for smooth operation.

Pump and Fan Control: Optimizes energy efficiency in fluid systems using built-in PID control to adjust motor speed based on demand.

Packaging Machinery: Maintains consistent line speeds and tension control in wrappers, fillers, and labelers.

OEM Equipment: Suitable for integration into industrial machinery like mixers, extruders, and textile systems where reliability and compactness are critical.



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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