

Allen-Bradley 25B-V4P8N104 Manual

Brand	Allen-Bradley
Product Series	22 Powerflex
Product Type	Open

Description

The 25B-V4P8N104 is a PowerFlex 525 Adjustable Frequency AC Drive from Allen-Bradley. This drive operates when supplied with voltage of 120VAC, 1-Phase. It delivers output power of 0.75 kW or 1.0 HP for both normal and heavy-duty operation. The drive's output Current is 4.8 Amperes with an IP20 NEMA / Open rated enclosure.

Technical specifications for 25B-V4P8N104

Brand Allen-Bradley

Part Number/Catalog No. 25B-V4P8N104

Output Current 2.5 A

Manufacturer Rockwell Automation / Allen-Bradley

Product Family: PowerFlex 525

Input Voltage: 120VAC

Input Phase: 1-Phase

Output Voltage: 0-230VAC

Output Phase: 3-Phase

Output Power: 0.75 kW or 1.0 HP

I/O: Discrete Inputs: Seven (7) Sink / Source Discrete Outputs: One (1) N.O.; One (1) N.C. Contacts; Two (2) Digital / Optocoupler

Analog Input: Two (2) Analog Input 0-10VDC; 0- 20mA Analog Output: One (1) Analog Input 0-10VDC; 0- 20mA

Installation: Panel Mount / DIN Rail

Zero Stacking: Supported

Enclosure Rating: IP20 / NEMA UL Type Open

Control Method: Volts per Hertz (V/Hz), Sensorless Vector Control (SVC), Closed loop velocity vector control, and Permanent Magnet motor control.

PointStop Technology: Integrated

Integrated safety: Safe-Torque Off (STO) functionality

Built-in communication port: Ethernet I/P / RS485

Series PowerFlex 525 Drive

Voltage One Phase, 120 VAC

Enclosure Type IP20 NEMA / Open Type

Interface Module Standard

Frame Size Frame B

EMC Filtering Options No Filter

The Allen-Bradley 25B-V4P8N104 is an adjustable Frequency AC Drive. This drive is a Frame B drive that operates when supplied with 120VAC, 1-phase voltage input with frequency range of 47-63 Hz. This drive features a compact and scalable hardware, supporting Zero stacking installation which effectively maximizes available panel space. With Zero stacking installation, an array of PowerFlex drives may be installed with almost no clearance in between. Additionally, this drive, being able to implement basic and advanced motor controls, supports simple installation such as Din rail and direct panel mounting.

The 25B-V4P8N104 comes with an output power of 0.75 kW or 1.0 HP for both normal and heavy-duty operation as well as 4.8 Ampere output current. Additionally, it comes with integrated EMC filter that enables this drive to be used out-of-the-box. It also comes with embedded Human Interface module (HIM) that has a set of embedded keypad for local operation, configuration of the

drive. Additionally, it has an LCD readout that provides monitoring of drive status and implementing error diagnostics, in the event of drive malfunction.

Speed control can be done in a variety of ways. These available speed control options support manual and automatic speed control which effectively simplifies and increases operational efficiency.

Its control I/O is composed of two analog inputs (unipolar and bipolar ones), seven digital inputs - six of which are programmable, one jumper selectable analog output, two relay outputs, and two opto-outputs. Its frame size of B fits into the IP20 NEMA/ Open Type enclosure and it has a standard interface module. The 25B-V4P8N104 PowerFlex 525 AC drive comes with a variety of motor control options that include Closed loop velocity vector control, Permanent Magnet motor control, Sensorless Vector Control (SVC), and Volts per Hertz (V/Hz). It offers a range of positioning controls, from PointStop, point-to-point positioning mode, and closed-loop feedback with an added encoder card, and it has an embedded Ethernet/IP port for control, data collection, and configuration over the network. Its integral RS485/DSI communications supports a multi-drop network configuration and it also has optional communication cards such as DeviceNet, Dual-port EtherNet/IP, and PROFIBUS DP; plus two PID loops that further enhance application flexibility. The 25B-V4P8N104 has built-in safety features to help protect equipment and personnel. In the event of no power or low voltage conditions, it allows the selection of the 1/2 line voltage operation for critical applications where continued drive output is required. When the circuit is tripped, the Safe-Torque-Off Function removes rotational power to keep the entire drive from shutting down. With embedded safety, the requirement for installation space and wiring is cut down to a minimum. This AC drive meets ISO 13849-1 standards with safety ratings including SIL 2/PLd.

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Series PowerFlex 525 Drive

Voltage One Phase, 120 VAC

Enclosure Type IP20 NEMA / Open Type

Inter

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