

# Allen-Bradley 22 Powerflex Series Service Manual

22B-V5P0F104

## 1. Description

The Allen-Bradley/Rockwell Automation 22B-V5P0F104 drive is an adjustable frequency drive from the PowerFlex 40 series. It uses its adjustable frequency to adjust the speed and torque of a motor in an Allen-Bradley PLC system. The 22B-V5P0F104 adjustable frequency drive operates with an output current rating of 5 Amps and a 1-phase input voltage rating of 120 Volts AC. It can be flange mounted inside an enclosure with an IP 20, IP 40, IP 54, or IP 65 environmental protection rating. The 22B-V5P0

## 2. Specifications

| Specification | Value                                                                                                                                                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer  | Rockwell Automation                                                                                                                                                                                                                                                                                     |
| Brand         | Allen-Bradley                                                                                                                                                                                                                                                                                           |
| Part          | Number/Catalog No. 22B-V5P0F104                                                                                                                                                                                                                                                                         |
| Product       | Line Powerflex 40                                                                                                                                                                                                                                                                                       |
| Voltage       | 120AC Volts                                                                                                                                                                                                                                                                                             |
| Enclosure     | Flange Mount - IP20, NEMA/UL Type Open                                                                                                                                                                                                                                                                  |
| HP            | 1 Horsepower                                                                                                                                                                                                                                                                                            |
| Amperage      | 5.0 A                                                                                                                                                                                                                                                                                                   |
| Phase         | 1 Phase                                                                                                                                                                                                                                                                                                 |
| Filter        | No CE Compliant Filter                                                                                                                                                                                                                                                                                  |
| Communication | RS-485                                                                                                                                                                                                                                                                                                  |
| Input         | Type Keypad                                                                                                                                                                                                                                                                                             |
| This          | performance-improving PowerFlex 40 Low Voltage AC Drive Module motor control by Allen Bradley provides OEM (Original Equipment Manufacturer) and a Sensorless Vector Control feature, designed to meet slow torque. The slow torque of this module, the 22B-V5P0F104, improves application performance. |

## 3. Product Information

The Allen-Bradley/Rockwell Automation 22B-V5P0F104 drive is an adjustable frequency drive from the PowerFlex 40 series. It uses its adjustable frequency to adjust the speed and torque of a motor in an Allen-Bradley PLC system. The 22B-V5P0F104 adjustable frequency drive operates with an output current rating of 5 Amps and a 1-phase input voltage rating of 120 Volts AC. It can be flange mounted inside an enclosure with an IP 20, IP 40, IP 54, or IP 65 environmental protection rating. The 22B-V5P0F104 adjustable frequency drive does not come with a filter.

Technical specifications for 22B-V5P0F104

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 22B-V5P0F104

Product Line Powerflex 40

Voltage 120AC Volts

Enclosure Flange Mount - IP20, NEMA/UL Type Open

HP 1 Horsepower

Amperage 5.0 A

Phase 1 Phase

Filter No CE Compliant Filter

Communication RS-485

Input Type Keypad

This performance-improving PowerFlex 40 Low Voltage AC Drive Module motor control by Allen Bradley provides OEM (Original Equipment Manufacturer) and a Sensorless Vector Control feature, designed to meet slow torque. The slow torque of this module, the 22B-V5P0F104, improves application performance.

This module, part of the Allen Bradley PowerFlex 40 Low Voltage AC Drive Module series has an uncomplicated programming structure, making it easy to control as well as install for a variety of applications.

The 22B-V5P0F104 module comes with a built-in Integral Keypad. It operates on a 50 or 60 Hertz frequency with a voltage rating of 100 or 120 Volts AC. It has an IP20 Flange Mount enclosure, the front being an IP20 NEMA/UL Type Open with an IP40/54/65 NEMA/UL Type 1/12/4/4X Back/Heatsink.

This module can operate at temperatures between 0 degrees Celsius (32 degrees Fahrenheit) and 60 degrees Celsius (140 degrees Fahrenheit). When not being operated, this module should be kept in temperatures between a minimum of -40 degrees Celsius and a maximum of 85 degrees Celsius (-40 and 185 degrees Fahrenheit).

The 22B-V5P0F104 follows several EMC (ElectroMagnetic Compatibility) standards, including Part 2 of the Generic Emission Standard (Industrial Environment), both EN 50081-2 EMC and EN 50082-2 EMC.

Weighing in at 4.53 kilograms, this unit's compact design measures approximately 250.0 x 244.0 x 94.3 millimeters.