

Allen-Bradley 22 Powerflex Series Service Manual

22D-E019F104

1. Description

The 22D-E019F104 adjustable frequency drive is an Allen-Bradley/Rockwell Automation PowerFlex 40P series adjustable frequency drive. It can control the torque and speed of compatible variable speed motors in Allen-Bradley programmable logic controller or PLC systems. The 22D-E019F104 adjustable frequency drive operates with a 3-phase input voltage rating of 600 Volts AC at 50 to 60 Hertz. It can be flange-mounted inside an

Technical specifications for 22D-E019F104

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 22D-E019F104
Product	Line Powerflex 40P
Amperage	19.0 A
Phase	Three-Phase
Enclosure	Open NEMA Type -Flange Mount (IP20)
Input	Power 600 Volts AC
Horsepower	15 Horsepower
Filter	No CE Compliant Filter
Type	Standard
Frame	Size C Description
The	Allen-Bradley 22D-E019F104 is an AC adjustable frequency drive that belongs to the PowerFlex 40P series. This PowerFlex 40P series offers an improved speed regulation and a basic position control respecting the previous series. The Allen-Bradley 22D-E019F104 PowerFlex 40P AC adjustable frequency drive operates at a voltage rating of 600 Volts AC, an output current of 160 to 600 Volts, and a rating of 19 Amps, 11 kW (15 HP) The Allen-Bradley 22D-E019F104 PowerFlex 40P AC adjustable frequency drive features a NEMA type 1 enclosure that protects the whole unit from particles that could build up and affect the functioning of the unit. The unit should not be exposed to a corro

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To guarantee reliable and smooth operations while the unit is operating at its maximum rating, it should not be located too far from the motor due to reflected wave phenomena.

Additionally, a clearance space is required between this unit and other units around in order to allow a proper cooling convection mechanism. The Allen-Bradley 22D-E019F104

PowerFlex 40P AC adjustable frequency drive has an increased power loss ride through and other important features such as a slip calculation, a standard traverse, and P-jump, a speed ratio over communication commands, synchronized input ramps, and a configurable dual channel incremental encoder. This unit can also operate as an independent position controller for a single time, annulling this way the need for multiple sensors. The control mechanism of this unit is by the means of a sinusoidal PWM, Volts/Hertz, and sensorless Vector.