

Allen-Bradley 22C-D022F103 Manual

Brand	Allen-Bradley
Product Series	22 Powerflex
Product Type	Fan & Pump

Description

The Allen-Bradley/Rockwell Automation 22C-D022F103 drive is a 3-phase AC-powered adjustable frequency drive. It has been designed and manufactured by Allen-Bradley as part of the PowerFlex 400 series. The 22C-D022F103 adjustable frequency drive needs to be connected to an external DC series bus inductor in order to operate. Its 3-phase AC input voltage range is between 380 and 480 Volts AC and its input frequency range is between 50 Technical specifications for 22C-D022F103

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 22C-D022F103

Product Line Powerflex 400

Drive Type Fan & Pump

Horsepower 15

Input Voltage 480 Volts AC

Phase Three-Phase

Enclosure Flange Mount - IP20, NEMA 1, Type 1 or

Amperage 22 Amps Description

The Allen-Bradley 22C-D022F103 PowerFlex 400 Adjustable Frequency AC Drive for fan and pump applications is a variable frequency AC drive in the Powerflex 400 family of cost-effective drives which provides cost-effective solutions for speed control in variable torque fan and pump systems. This drive is a flange-mounted device with an IP20 rated enclosure which provides an ambient temperature of up to 45 degrees Celsius (113 degrees Fahrenheit), and it comes with the fixed keypad and human-machine interface module, and an integral RS-485 serial communication port which is used for keypad programming or programming from a PC. The 22C-D022F103 has 3-phase AC input of 480 Volts AC, with a 22 Amps output current at 480 Volts AC, and a rated power output of 15 Horsepower. It also has an acceptable input range of 340 to 528 Volts AC, with 23 Amps rated input current and a real power output of 19.2KVA. It has 0.98 power factor across the entire speed range, with a rated drive efficiency of 97.5%, and it provides braking via an IGBT braking system. The 22C-D022F103 provides BUS voltage regulation, with microprocessor temperature control at the drive's heatsink, and it has a programmable current limiting capability for exceptional performance. It provides protection against ground fault plus phase-to-phase faults at the output, and it is designed to ride through 100 milliseconds of power loss.

It also provides class 10 electronic motor overload protection, with a drive overload capability of 110% for up to 1 minute, and it provides branch circuit protection with a specific fuse and circuit breakers. The 22C-D022F103 provides reliable motor control via a sine-coded pulse width modulated signal, and it has a programmable output frequency range of 0 to 320 Hertz which controls the drive's output voltage, and it has an adjustable output voltage range of 0 to the rated voltage. This drive features 2 independent and programmable acceleration and deceleration times, and it has programmable analog and digital I/Os for additional control functions. The 22C-D022F103 has a 2 lines by 16 characters integral LCD with a fixed keypad that allows for easy programming, and it also has an integral RS-485 serial port which also allows for easy programming via a PC and it can also be used in a multi-drop network configuration. This drive has operating temperature range -10 to 50 degrees Celsius (14 to 122 degrees Fahrenheit) around 0 to 95% non-condensing relative humidity, and it has a storage temperature range of -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit). The 22C-D022F103 has an average weight of 26.3 kilograms, with dimensions of 300 x 385 x 164 millimeters, and it is CE and cUL-us certified.

Technical Specifications

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 22C-D022F103

Product Line Powerflex 400

Drive Type Fan & Pump

Horsepower 15

Input Voltage 480 Volts AC

Phase Three-Phase

Enclosure Flange Mount - IP20, NEMA/UL Type Open

Amperage 22 Amps Description

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