# Allen-Bradley Service Manual

20F11FD040AA0NNNNN

## 1. Description

The 20F11FD040AA0NNNNN is an adjustable frequency drive from Allen Bradley's PowerFlex 753 series. It is designed for effective motor control with a normal output power of 30 HP and a continuous output current of 40 A.

## 2. Specifications

| Specification | Value |
|---|---|
| Manufacturer | **Allen Bradley** |
| Product | **Type Adjustable Frequency Drive** |
| Product | **Line PowerFlex 753** |
| Part | **Number 20F11FD040AA0NNNNN** |
| Weight | **25.00 lbs (11.34 kg)** |
| Output | **Current (Continuous) 40 A** |
| Output | **Power (Normal) 30 HP** |
| Mounting | **Style Flange Mount** |
| Enclosure | **Rating (Back) Type 4X / 12** |
| DC | **Bus Voltage 650 VDC** |
| CM | **Jumper Removed** |
| Input | **Phase Three** |
| Input | **Voltage 480 VAC** |
| Input | **Type AC with DC Terminals** |
| Filtering | **Integrated EMC Filter** |
| Input | **Frequency Range 48–63 Hz** |
| Braking | **Type Internal DB Transistor** |
| Control | **Methods V/Hz, Vector, IPM** |
| Cooling | **Method Air Cooled** |
| Powerflex | **753 VFD Cat. No.: 20F11FD040AA0NNNNN Frame: 3 Horsepower: 30 KW Power: 22 Voltage: 480 Amperage: 40 Phases: 3 Phase Options Mounting Type: Wall Mount** |

## 3. Product Information

The 20F11FD040AA0NNNNN is an adjustable frequency drive from Allen Bradley's PowerFlex 753 series. It is designed for effective motor control with a normal output power of 30 HP and a continuous output current of 40 A.

Technical specifications for 20F11FD040AA0NNNNN

Manufacturer Allen Bradley

Product Type Adjustable Frequency Drive

Product Line PowerFlex 753

Part Number 20F11FD040AA0NNNNN

Weight 25.00 lbs (11.34 kg)

Output Current (Continuous) 40 A

Output Power (Normal) 30 HP

Mounting Style Flange Mount

Enclosure Rating (Back) Type 4X / 12

DC Bus Voltage 650 VDC

CM Jumper Removed

Input Phase Three

Input Voltage 480 VAC

Input Type AC with DC Terminals

Filtering Integrated EMC Filter

Input Frequency Range 48–63 Hz

Braking Type Internal DB Transistor

Control Methods V/Hz, Vector, IPM

Cooling Method Air Cooled

Powerflex 753 VFD Cat. No.: 20F11FD040AA0NNNNN Frame: 3 Horsepower: 30 KW Power: 22 Voltage: 480 Amperage: 40 Phases: 3 Phase Options Mounting Type: Wall Mount

Description

The Allen Bradley 20F11FD040AA0NNNNN represents a versatile adjustable frequency drive within the PowerFlex 753 series. This device has an output power rating of 30 HP and can sustain a continuous output current of 40 A. It is designed to be mounted using a flange style, ensuring a secure fit.

Electrically, the drive operates on a three-phase input of 480 VAC and features input terminals for both AC and DC connections. The DC bus voltage is rated at 650 VDC. The drive is equipped with an integrated EMC filter to mitigate interference and improve performance. The frequency range for input signals is between 48 Hz and 63 Hz, enhancing its applicability for various settings.

The braking type utilized in this drive is an internal DB transistor, allowing for precise control during motor deceleration. Control methods include V/Hz, vector control, and interior permanent magnets (IPM) technique, providing flexibility for different applications. To maintain optimal operating temperature, an air-cooled method is employed, ensuring the drive remains efficient under various load conditions. The enclosure rating for the back of the unit is classified as Type 4X and Type 12, ensuring protection from environmental factors.