# Allen-Bradley Service Manual

150-F108NZD

## 1. Description

Solid State Controller with open enclosure, 108 A, 75 Hp @ 460V AC Controller Rating, and 230-690V AC, 3-phase, 50 and 60 Hz Input Line

## 2. Specifications

| Specification | Value |
|---|---|
| Manufacturer | **Allen Bradley** |
| Category | **Drives** |
| Product | **Line SMC-Flex** |
| Part | **Number 150-F108NZD** |
| Weight | **32.00 lbs (14.51 kg)** |
| Bulletin | **Number Solid State Controller** |
| Enclosure | **Type open** |
| Controller | **Rating 108 A, 75 Hp @ 460V AC** |
| Input | **Line Voltage 230-690V AC, 3-phase, 50 and 60 Hz** |
| Control | **Voltage 100-240V AC (5-480 A units)** |
| Rated | **Voltage 690/Y§V AC** |

## 3. Product Information

Solid State Controller with open enclosure, 108 A, 75 Hp @ 460V AC Controller Rating, and 230-690V AC, 3-phase, 50 and 60 Hz Input Line

Technical specifications for 150-F108NZD

Manufacturer Allen Bradley

Category Drives

Product Line SMC-Flex

Part Number 150-F108NZD

Weight 32.00 lbs (14.51 kg)

Bulletin Number Solid State Controller

Enclosure Type open

Controller Rating 108 A, 75 Hp @ 460V AC

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Input Line Voltage 230-690V AC, 3-phase, 50 and 60 Hz

Control Voltage 100-240V AC (5-480 A units)

Rated Voltage 690/Y§V AC

Description

The 150-F108NZD is an Allen-Bradley solid-state controller which belongs to the SMC – Flex series. It features a controller rating of 108 Amps, 75 Horsepower at 460 Volts AC. It also has a rated voltage of 690 Volts AC. The controller's input voltage is 230 to 690 Volts AC. It also has three-phase cage induction features. Moreover, it has three-phase, 50 and 60 Hertz frequency. The control voltage that is exhibited by this drive is 100 to 240 Volts AC which is also equivalent to 5 to 480 Amps. This device is made to drive squirrel cage induction and wye-delta motors. It is part of a product line of soft starters that includes non-combination models and combination models. It has seven embedded standard start modes. This device is also made to aid operators in controlling loads which are resistive.

The electronic motors overload protection in the 150-F108NZD helps to give it protection against excessive currents. The SCR bypass also offers additional protection. The enclosure that this device has serves to give it physical protection against damage. It also has an optional function which the user may use to support motor braking or an accu stop. Using this device aids operators in reducing energy costs while enhancing scalability. Moreover, it also has three standard operating modes which are the full voltage start, the soft start, and the current limit start. The 150-F108NZD can be controlled easily while starting, stopping and adjusting the module and its settings. The 150-F108NZD is designed to operate with an electromechanical motor starter. This starter aids this device especially when it needs to eliminate additional control wiring. This simplifies the process of installing this device. The electromechanical motor starter also helps the users to set up digital adjustments. If the operators feel that this device is not well protected, they can add another protective module to protect it further from damage.