Allen-Bradley Service Manual

150-F108NBR

1. Description

Solid State Controller with open enclosure, 108 A, 75 Hp @ 460V AC Controller Rating, and 200-460V 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-F108NBR**
UPC	**662073060031**
Weight	**30.25 lbs (13.72 kg)**
Bulletin	**Number Solid State Controller**
Enclosure	**Type open**
Controller	**Rating 108 A, 75 Hp @ 460V AC**
Input	**Line Voltage 200-460V AC, 3-phase, 50 and 60 Hz**
Control	**Voltage 24V AC/DC (5-480 A units)**
Rated	**Voltage 200-460V AC**

3. Product Information

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Technical specifications for 150-F108NBR

Manufacturer Allen Bradley

Category Drives

Product Line SMC-Flex

Part Number 150-F108NBR

UPC 662073060031

Weight 30.25 lbs (13.72 kg)

Bulletin Number Solid State Controller

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Enclosure Type open

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Control Voltage 24V AC/DC (5-480 A units)

Rated Voltage 200-460V AC

Description

The Allen-Bradley 150-F108NBR SMC-Flex smart motor controller by Allen-Bradley is a versatile and flexible solid-state motor controller with 7 motor starting options. It incorporates technology that is an advanced alternative to direct-on-line or star/delta motor starting technology. The 150-F108NBR motor controller is an industrial solution for applications with special mechanical effects in the machine or with an unstable power supply system that suffers from voltage dips. It is delivered in a NEMA open type of enclosure (IP 00) and it has an HMI with control and programming buttons and a backlit LCD. All 7 of its starting modes can be digitally controlled and adjusted over this control interface. The 150-F108NBR motor controller accepts 3-phase input voltage from 200 to 460 Volts AC. Its output power and current ratings are 75 Horsepower and 108 Amps, respectively. On the front panel, there are 6 status indicators for the starting, at speed, stopping, stopped, alarm, and fault statuses.

The Allen-Bradley 150-F108NBR motor controller has a 24 Volts AC/DC control circuit, with a 2 kV dielectric withstand and with the on-state input voltage rated at 19.2 Volts DC or 20.4 Volts AC. This motor controller has 4 fully programmable auxiliary contacts. They are electromagnetic relays that can behave as normally-open or as normally-closed contacts. Their execution times are around 800 milliseconds, and their rated operating currents are 3 Amps at 120 Volts AC and 1.5 Amps at 230 Volts AC. The unit is UL listed and CE marked to meet low-voltage directives. The 150-F108NBR motor controller can show the users all the relevant metering data, and it supports external metering device connecting, like a tachometer for example. If a tachometer is installed, then the controller can calculate and show the percentage of motor base speed being used on the screen.