Allen-Bradley Service Manual

150-F108NCR

1. Description

Solid State Controller with open enclosure, 108 A, 75 Hp @ 460V AC Controller Rating, and 200-575V 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-F108NCR**
UPC	**662073060277**
Weight	**40.00 lbs (18.14 kg)**
Bulletin	**Number Solid State Controller**
Enclosure	**Type open**
Controller	**Rating 108 A, 75 Hp @ 460V AC**
Input	**Line Voltage 200-575V AC, 3-phase, 50 and 60 Hz**
Control	**Voltage 24V AC/DC (5-480 A units)**
Rated	**Voltage 500/575V AC**

3. Product Information

Solid State Controller with open enclosure, 108 A, 75 Hp @ 460V AC Controller Rating, and 200-575V AC, 3-phase, 50 and 60 Hz Input Line

Technical specifications for 150-F108NCR

Manufacturer Allen Bradley

Category Drives

Product Line SMC-Flex

Part Number 150-F108NCR

UPC 662073060277

Weight 40.00 lbs (18.14 kg)

Bulletin Number Solid State Controller

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Enclosure Type open

Controller Rating 108 A, 75 Hp @ 460V AC

Input Line Voltage 200-575V AC, 3-phase, 50 and 60 Hz

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

Rated Voltage 500/575V AC

Description

The Allen-Bradley 150-F108NCR is an open-type, solid-state SMC Flex smart motor controller which has a 200 to 575V AC three-phase input line voltage at a line frequency of 50-60 Hz and it comes with a 24V AC/DC control voltage. At a 500/575V AC rated voltage, the 150-F108NCR's motor current ranges from 27 to 108A, 75 maximum kW at 50 Hz, and 100 maximum HP at 60 Hz in particular. Its controller rating consists of 108 A and 75 HP at 460V AC. This controller's ambient temperatures range from -4 to 167 °F while it is in storage or non-operational and the temperatures range from 23 to 104 °F and it has an operating altitude of not more than 2000 m. The 150-F108NCR controller is suitable for use with Wye-Delta motors, six-lead motors, and with standard squirrel-cage motors.

This controller comes with a keypad input placed at the front, 1 DPI port, 4 auxiliary contacts that users can fully program, a backlit LCD, and status indicators. These status indicators are capable of alerting users of various faults present on the 150-F108NCR controller, including undervoltage, communication fault, underload, phase reversal, power loss, voltage unbalance, open gate, overload, excessive starts per hour, stall, overvoltage, line fault, controller temp, and jam. Start and stop modes available that users can choose from are the dual ramp start, the current limit start, the preset slow speed, the soft stop, the soft start, the full voltage, and the linear speed acceleration.