Allen-Bradley Service Manual

150-F108NCD

1. Description

The 150-F108NCD motor controller is a solid-state smart motor controller from the Allen-Bradley/Rockwell Automation SMC Flex controller series. It comes with an open type of enclosure. The 150-F108NCD solid-state smart motor controller has a line voltage rating of 200 to 600 Volts AC and a current rating of 108 Amps. Additionally, it has a control voltage rating of 100 to 240 Volts AC. The 150-F108NCD solid-state smart motor controller supports 7 different starting and stopping modes.

2. Specifications

Specification	Value
Manufacturer	**Allen Bradley**
Category	**Drives**
Product	**Line SMC-Flex**
Part	**Number 150-F108NCD**
Weight	**21.00 lbs (9.53 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 100-240V AC (5-480 A units)**
Rated	**Voltage 500/575V AC**

3. Product Information

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Technical specifications for 150-F108NCD

Manufacturer Allen Bradley

Category Drives

Product Line SMC-Flex

Part Number 150-F108NCD

www.autronexa.com

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Description

The Allen-Bradley 150-F108NCD SMC-Flex Smart Motor Controller in the Allen-Bradley SMC-Flex controller series, with an open type enclosure rating that provides microprocessor starting for a 3-phase induction motor in a variety of industrial applications. The 150-F108NCD has ratings of 108 Amps and 75 Horsepower output power at 460 Volts AC, with an input line voltage range of 200 to 575 Volts AC at 50/60 Hertz. It has a power circuit with -15% to +10% tolerance range, and with 2,200 Volts AC circuit dielectric withstand. Its maximum short-circuit rating is 30KA, and it offers high DV/DT protection using an RC Network. The 150-F5FAD has a 100 to 200 Volts AC control circuit with a 1600-Volt circuit dielectric withstand, and it has 2 programmable relays (1 NO/NC) contact programmed for up-to-speed and normal operation.

The 150-F108NCD provides programmable protective and diagnostic features like stalling, jamming, undervoltage, overvoltage, phase reversal, and overload protection, and it also provides electronic motor overload protection by using the I2T protection algorithm. It has LED indicators which show the controller's status, and it communicates via it built-in DPI communication interface, that allows for multiple communication modules. The 150-F5FAD has a functional temperature range of 23 to 122 degrees Fahrenheit, with a storage temperature range of 23 to 104 degrees Fahrenheit at a non-condensing 5% to 95% relative humidity range, and it is designed to withstand a 1G peak vibration. It is also made to withstand a 15G operating shock for 11 milliseconds, it operates without de-rating at a height of 2000 meters above sea level. The 150-F5FAD has CE, UL, cUL-us, and CCC certifications, and it has a net weight of 15 kilograms, with a shipping volume of 443.7 x 196.4 x 205.2 millimeters.