Allen-Bradley Service Manual

150-F108FCD

1. Description

Solid State Controller with IP65 (Type 4/12) enclosure, 108 A, 75 Hp at 460V AC Controller Rating, and 500-575V 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-F108FCD**
Weight	**32.00 lbs (14.51 kg)**
Bulletin	**Number Solid State Controller**
Enclosure	**Type IP65 (Type 4/12)**
Controller	**Rating 108 A, 75 Hp at 460V AC**
Input	**Line Voltage 500-575V AC, 3-phase, 50 and 60 Hz**
Control	**Voltage 100-240V AC (5-480 A units)**
Rated	**Voltage 500/575V AC**

3. Product Information

Solid State Controller with IP65 (Type 4/12) enclosure, 108 A, 75 Hp at 460V AC Controller Rating, and 500-575V AC, 3-phase, 50 and 60 Hz Input Line

Technical specifications for 150-F108FCD

Manufacturer Allen Bradley

Category Drives

Product Line SMC-Flex

Part Number 150-F108FCD

Weight 32.00 lbs (14.51 kg)

Bulletin Number Solid State Controller

Enclosure Type IP65 (Type 4/12)

Controller Rating 108 A, 75 Hp at 460V AC

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Input Line Voltage 500-575V AC, 3-phase, 50 and 60 Hz

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

Rated Voltage 500/575V AC

Description

This 150-F108FCD unit is an Allen Bradley Solid State Controller, which comes in the enclosure type of IP65 (Type 4/12). The product line of this device is SMC-Flex; this unit is used to operate standard three-phase squirrel cage induction motors. The input line voltage of the 150-F108FCD unit ranges from 500 to 575 Volts AC and Wye-Delta (6-lead) motors. Featuring a 50 to 60 Hertz frequency, the controller rating of the device is 108 A and 75 Horsepower at 460 Volts AC. It also features SCR/Run bypass and built-in electronic motor overload protection. This 150-F108FCD unit also features Undervoltage protection that will stop the motor operation if a drop is detected in the incoming line voltage. When it comes to the overvoltage protection, it will stop motor operation if the rise in the incoming line voltage is detected. The electronic motor overload protection of this unit is achieved electronically with an I2t algorithm. It features keypad programming that is accomplished through a five button keypad on the front of the controller.

This module's auxiliary contacts include four fully programmable hard contacts, which are furnished as standard with the controller. The power monitoring parameters of the 150-F108FCD unit feature power in kW or mW, power factor, elapsed time, three-phase current, motor thermal capacity usage, three-phase voltage and power usage in kWh or MWh. Other features of the 150-F108FCD unit are staff protection and jam detection, DPI communication capabilities, LCD display, network I/O, ground fault input, PTC input, tach input, excessive starts per hour, voltage unbalance protection, and underload protection.