Allen-Bradley Service Manual

150-F1250NCA

1. Description

Solid State Controller with open enclosure, 1250 A, 1000 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-F1250NCA**
Weight	**32.00 lbs (14.51 kg)**
Bulletin	**Number Solid State Controller**
Enclosure	**Type open**
Controller	**Rating 1250 A, 1000 Hp @ 460V AC**
Input	**Line Voltage 200-575V AC, 3-phase, 50 and 60 Hz**
Control	**Voltage 230/240V AC (625-1250 A units)**
Rated	**Voltage 500/575V AC**

3. Product Information

Solid State Controller with open enclosure, 1250 A, 1000 Hp @ 460V AC Controller Rating, and 200-575V AC, 3-phase, 50 and 60 Hz Input Line

Technical specifications for 150-F1250NCA

Manufacturer Allen Bradley

Category Drives

Product Line SMC-Flex

Part Number 150-F1250NCA

Weight 32.00 lbs (14.51 kg)

Bulletin Number Solid State Controller

Enclosure Type open

Controller Rating 1250 A, 1000 Hp @ 460V AC

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

Control Voltage 230/240V AC (625-1250 A units)

Rated Voltage 500/575V AC

Description

The Allen-Bradley 150-F1250NCA is an SMC Flex Smart Motor Controller. This Allen-Bradley manufactured Bulletin 150 device provides microprocessor controlled soft starting abilities for standard motor types. The 150-F1250NCA is a solid-state controller, which can be paired with an open enclosure. This SMC controller provides the most power in the 150 series, with 1250 A and 1000 Hp at 460 Volts AC. It has an input line voltage of 200 to 575 Volts AC three-phase at 50 to 60 Hertz, and a control voltage of 230 to 240 Volts AC. Contacts can be programmed (1NO / 1NC). Resistive loads can be controlled by this smart motor controller, which supports soft start, soft stop, full voltage start, kickstart, current limit start, dual ramp start, preset slow speed, and linear speed acceleration. Protection and diagnostic features are implemented through power loss, voltage unbalance, line fault, excessive starts per hour, phase reversal, under/over voltage, controller temp, stall, jam, open gate, overload/underload, and communication fault protections. The 150-F1250NCA has a metering capability (current transformer integrated) for kW, kWh, A, V, elapsed time, power factor, and motor thermal capacity usage. The heat production during application runtime is reduced with a mechanical run contactor implemented on each phase that is supplied to the motor.

Parameters are structured in a three-level menu and in programming groups. The 150-F1250NCA has dimensions of 1041.1 x 596.9 x 346.2 millimeters (41.0 x 23.5 x 13.63 inches). The product’s weight is approximately 224 kilograms (495 pounds) and its operating temperature range is -5 to 50 degrees Celsius (23 to 122 degrees Fahrenheit).