Allen-Bradley Service Manual

150-F1250NCE

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-F1250NCE**
UPC	**662074803002**
Weight	**387.00 lbs (175.54 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 110/120V AC (625-1250 A units)**
Rated	**Voltage 500/575V AC**

3. Product Information

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Technical specifications for 150-F1250NCE

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Category Drives

Product Line SMC-Flex

Part Number 150-F1250NCE

UPC 662074803002

Weight 387.00 lbs (175.54 kg)

Bulletin Number Solid State Controller

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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 110/120V AC (625-1250 A units)

Rated Voltage 500/575V AC

Description

The 150-F1250NCE is one of the more recent installations in the Allen Bradley series of industrial Solid-State Controllers. This device features some of the latest technological advancements, while still delivering appropriate features that meet the needs of facilities which are still relying on older equipment and hardware choices. This device is part of Allen Bradley's range of SMC-Flex Solid-State Controllers and can be used to deliver power output and control features over a number of different motors, including 3-phase induction motors (squirrel case type motors) and 6-lead Wye-Delta motors. The 150-F1250NCE has a controller rating of 1250 Amps, which makes this motor controller compatible with a wider range of motors than most other controllers on the market in the modern industrial sector. Additionally, a power output range of up to 1000 horsepower means this device can be used to power and control even the more demanding hardware settings of industrial facilities. this device has an input voltage requirement of 460 Volts AC. Input line voltage of this device can be set between 200 and 55 Volts AC. this device also provides an adjustable input frequency range, which can be configured to accompany either 50 or 60 Hertz.

The three-phase output power option featured on the 150-F1250NCE ensures adequate power output can be delivered to a connected induction or Wye-Delta motor. The control voltage of this device is highly configurable and can be adjusted based on the needs of the facility and, of course, the hardware that is connected. Control voltage features are set to 110 to 120 Volts AC, with an Ampere unit control of 625 to 1250 Amps. The 150-F1250NCE comes with an open-type enclosure. This ensures that the installation of this Solid-State Controller is easier than the majority of closed-type enclosures and provides a more compact option for facilities that require a Solid-State Controller to be installed in a smaller space.

Programming this device is relatively easy and can usually be performed by operational managers, thanks to the included instructions manual. All programming can be done directly on this device, as it comes featured with a programming keypad, as well as an LCD display unit for feedback on configurations and settings.