Allen-Bradley Service Manual

150-F108FHD

1. Description

Solid State Controller with IP65 (Type 4/12) enclosure, 108 A, 75 Hp @ 460V AC Controller Rating, and 200-208V 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-F108FHD**
Weight	**32.00 lbs (14.51 kg)**
Bulletin	**Number Solid State Controller**
Enclosure	**Type IP65 (Type 4/12)**
Controller	**Rating 108 A, 75 Hp @ 460V AC**
Input	**Line Voltage 200-208V AC, 3-phase, 50 and 60 Hz**
Control	**Voltage 100-240V AC (5-480 A units)**
Rated	**Voltage 200/208V AC**

3. Product Information

Solid State Controller with IP65 (Type 4/12) enclosure, 108 A, 75 Hp @ 460V AC Controller Rating, and 200-208V AC, 3-phase, 50 and 60 Hz Input Line

Technical specifications for 150-F108FHD

Manufacturer Allen Bradley

Category Drives

Product Line SMC-Flex

Part Number 150-F108FHD

Weight 32.00 lbs (14.51 kg)

Bulletin Number Solid State Controller

Enclosure Type IP65 (Type 4/12)

Controller Rating 108 A, 75 Hp @ 460V AC

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Input Line Voltage 200-208V AC, 3-phase, 50 and 60 Hz

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

Rated Voltage 200/208V AC

Description

The Allen-Bradley 150-F108FHD is a Solid-State Controller which belongs in the SMC-Flex Series. It is protected by an IP65 (Type 4/12) enclosure. This module’s control voltage is 100-240V AC (5-480 A units) and a controller rating of 108 A, 75 HP at 460V AC. It also has a voltage rating of 200-208V AC, 3-phase, at 50 and 60 Hz. The 150-F108FHD solid-state controller exhibits several modes of operation including a soft start which covers most general applications. The motor exhibits an initial torque setting that is adjustable. The selectable kickstart feature helps in the breaking away of loads by providing a boost at startup. For a period of time, this feature provides a current pulse.

The 150-F108FHD controller exhibits linear speed acceleration which is a closed-loop feedback system that helps in maintaining a constant motor acceleration. The DC tachometer which is coupled to the motor provides the required feedback signal. The kickstart is also available for this mode. This controller has an SMB or Smart Motor Braking option which enables the motor to stop in a quicker way than a coast to rest mode by providing motor braking. The compact design of the solid-state controller has been fully integrated with a braking control with an automatic zero-speed shut-off system.

The compact design of the 150-F108FHD solid-state controller facilitates a straightforward and clean installation. It also eliminates the need for additional hardware like resistors, speed sensors, braking contractors, and timers. The function of the microprocessor-based braking system is to apply a braking current to a squirrel-cage motor. The strength of the braking current is also special because it is programmable by the users. This controller exhibits an accu-stop option which is used in applications which need controlled position stopping. The slow speed can be programmed for either high (15%) or low (7%) speed.