

Allen-Bradley Service Manual

153H-F108FCD-50

1. Description

Solid-State Controller with Circuit Breaker, IP65 (Type 4/12) enclosure, 108 A, 75 Hp @ 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 153H-F108FCD-50
Weight	32.00 lbs (14.51 kg)
Bulletin	Number Solid-State Controller with Circuit Breaker
Enclosure	Type IP65 (Type 4/12)
Controller	Rating 108 A, 75 Hp @ 460V AC
Input	Line Voltage 500-575V AC, 3-phase, 50 and 60 Hz
Control	Voltage 120V AC
Rated	Voltage 500/575V AC
Control	Type Standard
Hp	Rating 100

3. Product Information

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Technical specifications for 153H-F108FCD-50

Manufacturer Allen Bradley

Category Drives

Product Line SMC-Flex

Part Number 153H-F108FCD-50

Weight 32.00 lbs (14.51 kg)

Bulletin Number Solid-State Controller with Circuit Breaker

Enclosure Type IP65 (Type 4/12)

Controller Rating 108 A, 75 Hp @ 460V AC

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

Control Voltage 120V AC

Rated Voltage 500/575V AC

Control Type Standard

Hp Rating 100

Description

The Allen-Bradley 153H-F108FCD-50 drive is a type of solid-state controller that contains a circuit breaker and that belongs to the SMC-Flex product line. It has an enclosure type that is rated as an IP65 (Type 4/12) enclosure with a controller rating of 108A, 75 HP at 460V AC. The input line voltage is 500-575V AC 3-phase input voltage at 50 & 60 Hz. Moreover, for control, the voltage rating is 120V AC and its HP output rating is 100. The 153H-F108FCD-50 device is wired to operate 3-phase squirrel cage induction motors and wye-delta motors. The line involves soft-starters that belong to grouping and non-combination models. The 153H-F108FCD-50 has different modes of operation, an SMC flex controller, and standard and surplus motor protection. When matched with the appropriate short circuit protection, excess protection is provided to safeguard the motor, the motor controller, and the power cabling against overheating that is triggered by an extreme overcurrent.

The motor may experience locked-rotor flows and develop high-force intensities if it jams. Such a condition can result in winding separation failure. The 153H-F108FCD-50 SMC flex controller provides the users with both jam and system protection. For the stall protection, it permits the users to program a concentrated stall protection delay of between 0 and 10 seconds. That delay is made in the totaling of the preset start and it begins when the start time has programmed out. If the 153H-F108FCD-50 controller detects that the motor is jammed, it immediately shuts down after the interruption period has expired. The users are alerted by the jam detection before the motor reaches full speed.