

Allen-Bradley Service Manual

150-F780JBE

1. Description

Solid State Controller with IP54 (Type 12) enclosure, 780 A, 600 Hp @ 460V AC Controller Rating, and 400-460V 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-F780JBE
Weight	225.00 lbs (102.06 kg)
Bulletin	Number Solid State Controller
Enclosure	Type IP54 (Type 12)
Controller	Rating 780 A, 600 Hp @ 460V AC
Input	Line Voltage 400-460V AC, 3-phase, 50 and 60 Hz
Control	Voltage 110/120V AC (625-1250 A units)
Rated	Voltage 400/415/460V AC

3. Product Information

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Technical specifications for 150-F780JBE

Manufacturer Allen Bradley

Category Drives

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Enclosure Type IP54 (Type 12)

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Description

The Allen-Bradley 150-F780JBE is an SMC Flex solid-state, three-phase smart motor controller that has an input line voltage of 400 to 460V AC at a frequency of 50 and 60 Hz, as well as a 110/120V AC control voltage and it is used for line connected motors, specifically Wye-delta, six-lead motors and standard squirrel-cage induction motors. At 460V AC, it has controller ratings of 780 A and 600 HP and its enclosure ratings are NEMA Type 12, IP54. At a rated voltage of 400/415/460V AC, the non-combination 150-F780JBE controller has a motor current that ranges from 260 to 780 A, a maximum kW rate of 450 kW at 50 Hz, and a maximum HP rating of 600 HP at 60 Hz. The room temperature of this controller should range from -5 to 40 °C when in use and from -20 to 75 °C when it is kept in storage or being transported.

There are multiple modes of starting and stopping available for users to choose from with the 150-F780JBE controller and these are soft stop, soft start, preset slow speed, current limit start, linear speed acceleration, dual ramp, and full voltage. For protection, this controller has the capacity to diagnose various faults that may occur or are occurring in the controller and these detectable faults include voltage unbalance, phase reversal, power loss, excessive starts per hour, line fault, overvoltage, undervoltage, jam, stall, controller temp, overload, underload, open gate, and communication fault. The 150-F780JBE controller also features a backlit LCD display, front keypad, status indicators, and 4 fully programmable auxiliary contacts.