

## Allen-Bradley 150-F251NBD SMC-Flex Soft Starter with 251A 480V Smart Motor Control for Industrial Applications

Our Product Introduction

### Basic Information

- Place of Origin: USA
- Brand Name: Allen-Bradley
- Certification: ATEX
- Model Number: 150-F251NBD
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: carton
- Delivery Time: Negotiable
- Payment Terms: T/T
- Supply Ability: 100pcs per month



### Product Specification

- Highlight: 251A Soft Starter, 480V SMC-Flex Soft Starter, Smart Motor Control Soft Starter

for more products please visit us on [achieversinstruments.com](http://achieversinstruments.com)

Product Description

Allen-Bradley 150-F251NBD SMC-Flex Soft Starter: 251A, 480V, Smart Motor Control

Product Overview

The Allen-Bradley 150-F251NBD is a solid-state soft starter from the Bulletin 150 SMC-Flex series, designed to provide smooth acceleration and deceleration for industrial motors. It reduces mechanical stress and inrush current during startup, extending equipment lifespan while supporting programmable control modes and embedded safety features. Ideal for pumps, conveyors, and heavy-duty machinery, this controller combines reliability with advanced diagnostics for demanding applications.

Technical Specifications

Parameter	Specification
Model Number	150-F251NBD
Brand/Series	Allen-Bradley Bulletin 150 SMC-Flex
Rated Current	251A (standard load)
Input Voltage	200-480V AC, 3-Phase, 50/60Hz
Motor Power Range	75-125HP (200V) / 100-250HP (480V) (varies by load type)
Control Methods	Voltage Ramp Start, Current Limit Start, Programmable Acceleration/Deceleration
Control Voltage	24V DC (external) or 100-240V AC (optional)
Communication	Optional modules (DeviceNet, EtherNet/IP, Profibus)
Protection Features	Overload, Phase Loss, Motor Stall, Under/Over Voltage, Overheat (IEC 60947-4-1)
Enclosure Rating	IP20 (requires panel mounting)
Dimensions (W × H × D)	150mm × 250mm × 150mm
Weight	~5kg

Key Features

**Flexible Control Modes:** The starter supports nine programmable start/stop modes and three low-speed settings, enabling customization for applications like pump control or braking operations. This versatility ensures smooth motor operation while minimizing mechanical wear.

**Integrated Diagnostics and Protection:** With built-in electronic motor overload protection and real-time temperature monitoring, the device safeguards against faults like phase loss, stalling, or voltage fluctuations. Its conformal coating enhances durability in harsh environments.

**Space-Efficient Design:** The compact chassis allows DIN rail or panel mounting, optimizing control cabinet space. Optional bypass contactors further improve energy efficiency during continuous operation.

**Advanced Communication Options:** Through add-on modules, the starter integrates into industrial networks (e.g., EtherNet/IP, DeviceNet), enabling remote monitoring and control via PLCs or HMIs. The built-in LCD display simplifies local programming and diagnostics.

**Safety Compliance:** The controller meets international standards (IEC 60947-4-1) and includes features like torque control and braking options, ensuring safe operation in high-inertia applications such as crushers or mixers.

Application Scenarios

**Pump and Fan Systems:** Reduces water hammer and pressure surges in fluid handling systems by enabling gradual acceleration, extending pump lifespan and lowering maintenance costs.

**Conveyor and Material Handling:** Provides smooth acceleration/deceleration for belts and sorters, preventing product spillage and minimizing belt wear in logistics or manufacturing facilities.

**Heavy-Duty Machinery:** Suitable for high-torque equipment like compressors, crushers, or mixers, where controlled startups avoid current spikes and mechanical stress.

**OEM Industrial Equipment:** Ideal for integration into automated machinery requiring reliable motor management, with programmable logic (StepLogic) supporting standalone operation without external controllers.

*Note: Specifications are based on manufacturer data and industry sources. Verify parameters against the latest technical documentation for specific applications.*



Since Year 2012

#### About Achievers Automation Limited

Achievers Automation Limited is a well-established player in the field of industrial automation with over 12 years of experience. The company provides a comprehensive range of industrial automation components and instruments to customers in over 45 countries worldwide.



#### Frequently Asked Questions

**Q: Are the Products Genuine OEM Units?**

A: These items have been certified by Achievers Automation Limited to be genuine OEM Units obtained through OEM or independent third-party channels.

**Q: How will you arrange shipment?**

A: We can arrange shipment based on your request. We have cooperated forwarders who can arrange shipment via FedEx, DHL, TNT with competitive pricing.

**Q: What is the warranty of goods?**

A: One-year Warranty.



**Achievers Automation Limited**

13828861501

joanna@achieversautomation.com

achieversinstruments.com

RM 509, 5/F, THE CLOUD, 111, TUNG CHAU STREET, TAI KOKTSUI, KOWLOON, HONG KONG