

Bulletins 150, 152 and 153 Enclosed Smart Motor Controllers



SMC™ -3, SMC™ Flex and SMC™ -50 soft starters

Advantages

- Reduced mechanical system stress, wear and maintenance
- Lower voltage/current spikes and line disturbances
- Decreased water hammer in pumping applications
- Snap-together wiring technology for faster, easier installation
- Lower peak electrical use and demand charges
- Floor standing indoor/outdoor rated enclosure has compact footprint requiring less space

Functionality

Enhanced Control Options

- User programmability
- Scalable to critical nature of application
- Local, manual and automatic modes

Inherent Diagnostics

- Current, voltage, power and energy monitoring
- Faults and alarms

Lowest Installed Cost with Network Integration

- Ease of communication linkage (e.g. multi protocol, AOPs)
- Localized I/O and control
- Wire reductions

Enclosed soft starters offer a balance of performance, versatility and price.



Overview

The capabilities and flexibility of the enclosed SMC-3, SMC Flex and SMC-50 soft starters make them ideal for almost any application. They minimize mechanical wear that results from full-voltage starting, enabling longer starting. This prolongs system life and lowers line disturbances, reducing downtime and increasing efficiency. Factory-built, enclosed soft starters are customized solutions tailored to your specific application, but pre-engineered for standardization and quick delivery available through regional configuration centers.

Offering

Enclosed SMC-3, SMC Flex and SMC-50 soft starters are available as non-combination, combination fusible disconnect or combination circuit breaker. Solutions can be fully customized with any selection of a wide variety of factory-installed options, and are pre-engineered for quick factory lead times.

With industry-leading customization, available options, and functionality, these soft starters are a clear-cut choice for diverse and specialized applications.

LISTEN.
THINK.
SOLVE.™

Enclosed Soft Starting Solutions

Enclosed soft starting solutions encompass all the starting, stopping, protection and diagnostics benefits of Allen-Bradley® soft starters, in a customizable, pre-engineered solution. Factory-built enclosed soft starters are shipped ready to install, with quick lead times.

Enclosed SMC-3 soft starter

Compact, cost-effective solution for on-machine or pumping applications

- Available 3...480 A
- Snap-together wiring technology¹

Bulletins 150C, 152C, 153C

APPLICATIONS: *Conveyors • Fans • Pumps • Chillers • Mixers • Lifts*



Enclosed SMC Flex soft starter

Modular design with advanced performance and communications flexibility

- Available 5...1250 A
- Snap-together wiring technology¹
- Optional full-numeric keypad, door-mounted HIM

Bulletins 150F, 152F, 153F

APPLICATIONS: *Compressors • Pumps • Fans • Conveyors
Bandsaws • Chillers • Centrifuges*

Enclosed SMC-50 soft starter

Scalable solution, satisfying a wide variety of control needs

- Available 90...520 A
- Snap-together wiring technology¹
- Normal and heavy-duty ratings
- Optional start- or run-duty external bypass
- Optional door-mounted HIM with easy-selection arrows and soft keys for navigation
- Optional digital and analog I/O expansion modules and protection

Bulletins 150S, 152S, 153S

APPLICATIONS: *Pumps • Compressors • Fans • Conveyors • Bandsaws • Mills •
Crushers • Grinders • Shredders • Centrifuges*



¹Snap-together wiring available from 90... 520 A

Soft Starter Feature Comparison

	SMC-3 soft starter	SMC Flex soft starter	SMC-50 soft starter
True 3-Phase control	Yes	Yes	Yes
Bypass	Integral	Integral	External
Protection and Diagnostics	Basic	Advanced	Industry leading
Start/stop modes	5	9	17
Enclosure type	1/12/4 or 3R	1/12/4 or 3R	1/12/4 or 3R
Factory-installed communication modules (optional)	None	RS-485, DeviceNet™, Ethernet/IP, ControlNet™, ProfiBUS	RS-485, DeviceNet™, Ethernet/IP, ControlNet™, ProfiBUS
Voltage range	200....575V AC	200....575V AC	200....575V AC
Control voltage	100....240V AC	100....240V AC	100....240V AC
Option offering and customization	Moderate	Extensive	Extensive
Customization through modified standards	Yes	Yes	Yes

Soft Starter Enclosures

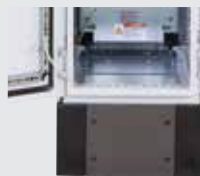
Standard enclosure sizes are available in three widths:

- 400 mm (15.7 in.)
- 600 mm (23.6 in.)
- 1000 mm (39.4 in.)



Enclosure accessories are available for each width

- Mounting rail for door installation
- Enclosure mounting foot, high strength plastic
- Enclosure mounting foot, sheet steel



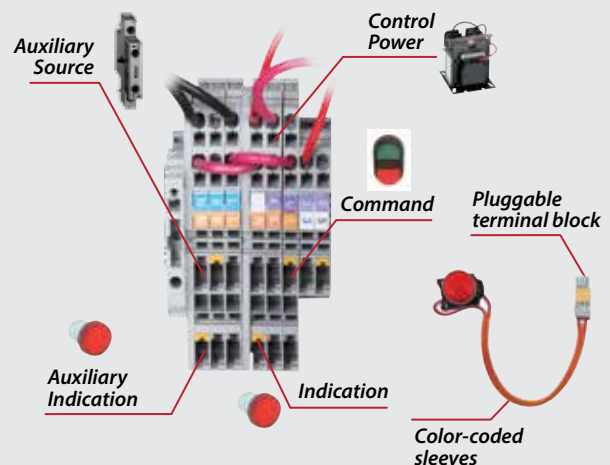
Ratings and Environmental Specifications

- Standards compliance: UL 508A
- Enclosure and ambient operating temperature: -5...40 °C (23...104 °F)
- Altitude: 2000 m (6560 ft)
- Humidity: 5...95% (non condensing)

Snap-together Wiring Technology

Wiring Made Easy

Many of our enclosed soft starters¹ now feature component wiring that is color-coded by function. The wiring sleeve cover corresponds to a colored label on the terminal block, reducing wiring errors and allowing quicker installation times.



¹Snap-together wiring available from 90...520 A

Modified Industrial Controls

The Modified Industrial Controls business at Rockwell Automation® can take your panel design needs from conception to completion. We provide a unique engineer-to-engineer relationship that helps to ensure that every aspect of your panel is designed, developed and delivered according to your specifications, schedule and budget.

Customizable panels include:

- Programmable controllers
- Starters
- Distributed I/O
- Servo drives
- Push buttons and pilot lights
- Partner products and other third-party devices



Find out more about
Modified Industrial Controls:

www.rockwellautomation.com/go/lit/icp-modified



Regional Configuration Centers

The Rockwell Automation regional configuration centers are located in your area to help you get the right product, right when you need it.

Availability

- Products ship within 5 days

Flexibility

- Factory-installed modifications
- Comply with regional needs and standards

Enclosed soft starters are assembled in the Central and Western regional configuration centers.



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