

Bulletin 150, 152 & 153 Enclosed Smart Motor Controllers



Featuring the SMC™-3, SMC™ Flex & SMC™-50

The capabilities and flexibility of the Enclosed SMC-3, SMC Flex and SMC-50 make them ideal for almost any application. They minimize mechanical wear resulting from full-voltage starting, enabling longer system life and also lower line disturbances, reducing downtime and increasing efficiency.

Factory-built, Enclosed SMCs are customized solutions tailored to your specific application, but pre-engineered for standardization and quick delivery.



Enclosed SMC Flex

Advantages

- Reduced mechanical system stress, wear and maintenance
- Lower voltage/current spikes and line disturbances
- Decreased water hammer in pumping applications
- Simplified compliance to local utility code
- Lower peak electrical use and demand charges

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 (i.e., multi protocol, AOPs)
- Localized I/O and control
- Wire reductions

Offering

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

Enclosed SMCs offer a balance of performance, versatility and price.

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

Enclosed SMC-3

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

- Available 3...480 A
- Combination pump panels available in Type 3R enclosure in 7 controller ratings (460V, 25...480 A)

Bulletins 150-C, 152H-C, 153H-C



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

Enclosed SMC Flex

Modular design with advanced performance and communications flexibility

- Available 5...780 A (up to 1250 A through Modified Standards)
- Optional full-numeric, door-mounted HIM

Bulletins 150-F, 150B-F, 152H-F, 152B-F, 153H-F, 153B-F



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

Enclosed SMC-50

Scalable solution, satisfying a wide variety of control needs

- Available 90...520 A
- 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 150-S, 150B-S, 152H-S, 152B-S, 153H-S, 153B-S



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

SMC Feature Comparison

| | SMC-3 | SMC Flex | SMC-50 |
|--|---------------|---|--|
| 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 12 | 1/12/4 or 12 |
| 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 |

Common factory-installed options include transformers (standard and extra capacity), pilot devices, HIM, protective modules, communication modules and auxiliaries. Others available.



Scan this code to visit the SMC online catalog for product configuration and options or for general SMC information go to <http://ab.rockwellautomation.com/Motor-Control/Soft-Starters>



Scan this code to visit the SMC family brochure for feature and application information or for general SMC information go to <http://ab.rockwellautomation.com/Motor-Control/Soft-Starters>

Modified Standards

Our Modified Standards program is available to build Enclosed SMCs that are customized with features or components that are not standard options or are third-party devices. Special product needs typically supported include:

- Type 4X or custom enclosures
- Voltage meters, ammeters and hour meters
- Shunt trips
- Control relays
- Vacuum contactors

Modified Standards designs utilize the layouts and wiring practices of a standard product offering, providing a consistent panel appearance across multiple orders.



Keep your complex projects moving quickly with the Modified Standards quick quoting process. Contact your local Allen-Bradley distributor or Rockwell Automation sales office to place an order.

ProposalWorks

Enclosed SMCs may be configured with the easy-to-use ProposalWorks interface.

Find the exact catalog number you need, access current pricing, view related documents and photos, and include them in a Word document.



Ratings and Environmental Specifications

Enclosed Product

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)

Open Style

Standards compliance:
UL 508
CSA C22.2 No. 14
EN/IEC 60947-1
EN/IEC 60947-4-2

Certifications:

cULus Listed (Open Type)
(File No. E96956, Guides NMFT, NMFT7)
CSA Certified (File No. LR 1234)
CE Marked
CCC Certified

Rockwell Automation offers a breadth of quality Allen-Bradley® components to fit your specific needs. In order to assist you with your component selection, we offer a variety of configuration and selection tools.



Local Distributor

Call 1.800.223.3354 to contact your local Distributor today.
<http://www.rockwellautomation.com/distributor/>



On-Line Product Directory

Our extensive product portfolio is designed to improve your processes through every stage of your manufacturing cycle.
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Product Selection Toolbox

Our powerful range of product selection and system configuration tools assist you in choosing and applying our products.
<http://www.rockwellautomation.com/en/e-tools/>



Catalogs

Within our catalogs you'll find an extensive selection of essential Allen-Bradley component products.
<http://www.ab.com/catalogs/>

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