



# Pump Control Panels

## Enclosed NEMA Starter and Soft Starter Solutions

### Features and Benefits

- Basic pump control to complex, full control offerings
- Fusible disconnect switch or circuit breaker types
- Includes service entrance rating
- Narrow enclosure sizes and enclosures with extra panel space
- NEMA Type 3R water-tight enclosure
- Up to 100 kA short-circuit rating

### Applications

- Crop irrigation
- Golf courses
- Oil & gas pumping
- Commercial fish farming
- Waste water treatment
- Marina slip power hook-ups



Soft Starter



NEMA Starter

## Overview

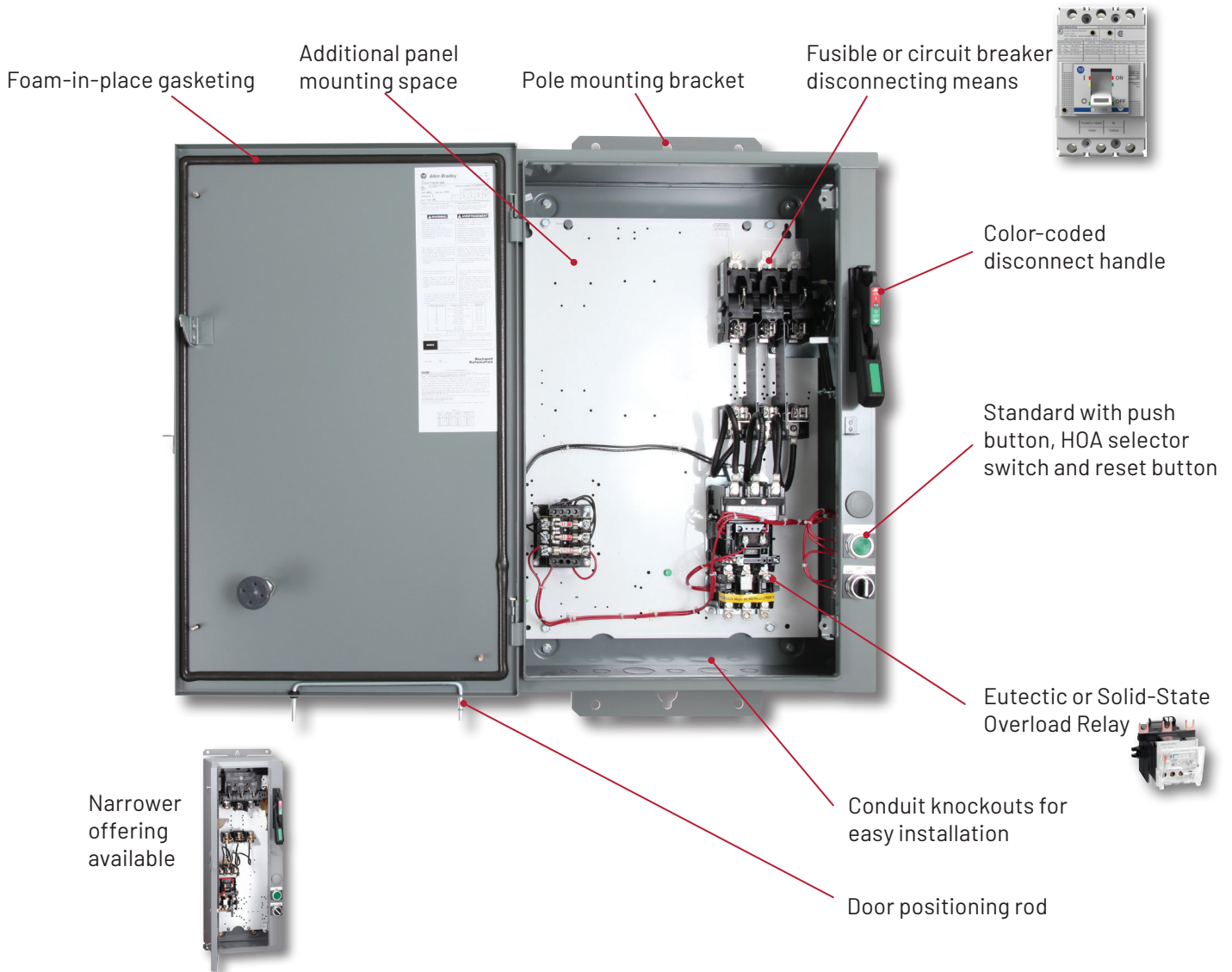
Rockwell Automation® offers a robust and complete range of Allen-Bradley® pump control panels designed for a wide variety of pumping applications. Our product offering includes durable direct-on-line (DOL) NEMA starters, the soft starting of Smart Motor Controllers (SMC™), and variable speed control of PowerFlex® drives.

Designed for standalone usage, the water-tight NEMA Type 3R enclosure can be placed either indoors or outdoors. The pole mounting brackets on the enclosure allow the panel to be installed on a utility pole or in a rack-mounting configuration. These panels offer solutions for a wide variety of pumping applications.

# Enclosed NEMA Starters

Available as a direct-on-line starters they provide a dependable and simple starting solution for pumping applications. The simple set-up and smaller footprint offer a reduced installation cost.

Features a fusible or circuit breaker disconnecting means, HOA selector switch, start push button, and an external reset. Additional factory installed options such as pilot lights, power monitor, and lightning arrestors are available.



## Bulletin Numbers: (up to 400 Hp)

- 1232/1233: NEMA 500 Size 1...3
- 1232X/1233X: NEMA 500 Size 1...6
- 1232T/1233T: NEMA 300 Size 1...6

## Features and Benefits:

- Lowest cost of ownership
- Quick installation
- Long mechanical and electric life
- Eutectic or Electronic Overload relay for overcurrent protection

## Operating Mode

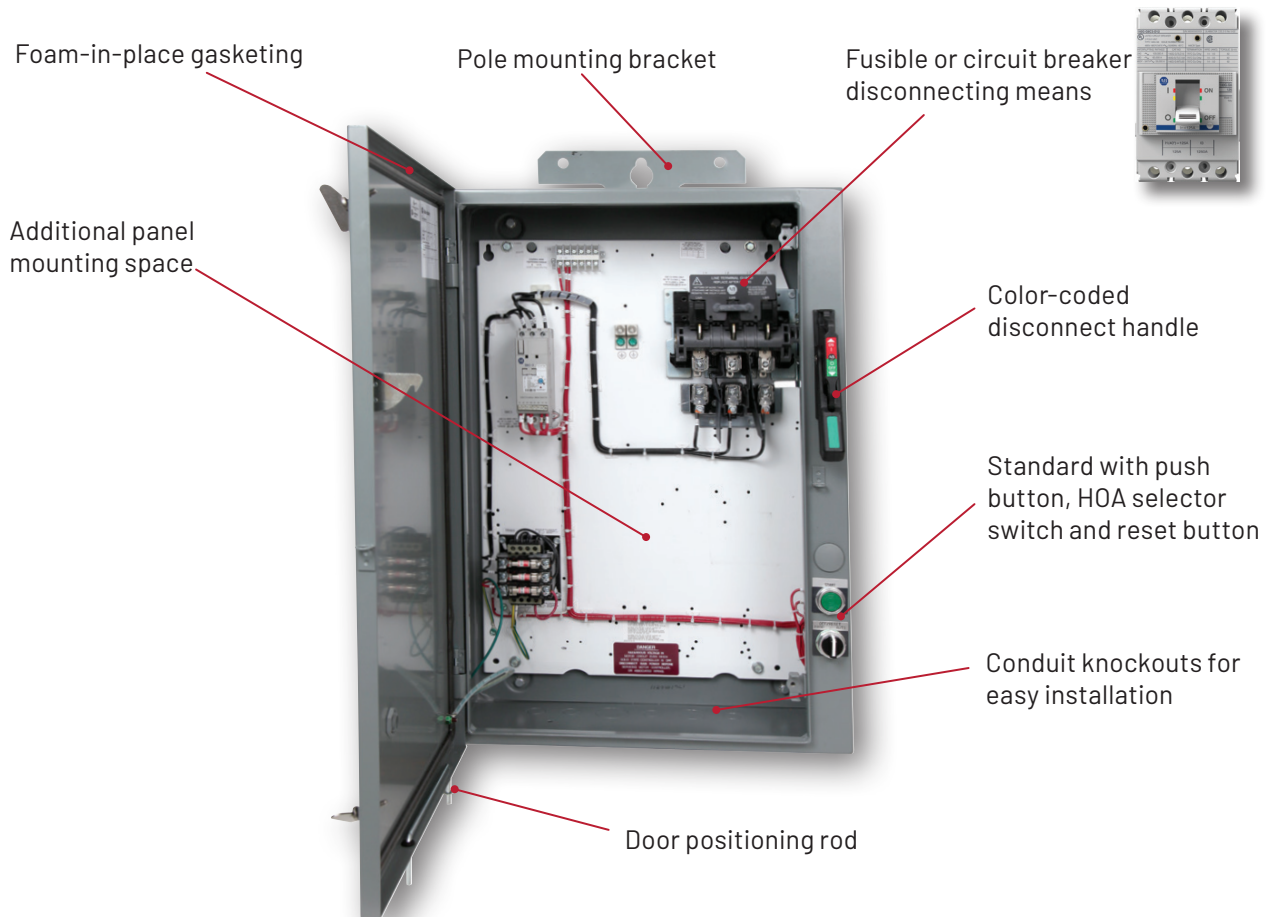


Direct-on-Line Starter

## Enclosed Soft Starters

The soft starting of Smart Motor Controllers is ideal for limiting the inrush of current to the pump. This limits the stress on the system by reducing the torque during startup and helps to avoid pressure surges and water hammer.

The SMC™-3 soft starter offers five start/stop modes and built-in overload protection. They come standard with start push button, HOA selector switch, transformer, and external reset. Other factory installed options are available. The SMC-3 soft starter is a cost efficient full speed solution with basic control and easy startup.



### Bulletin Numbers: (up to 300 Hp)

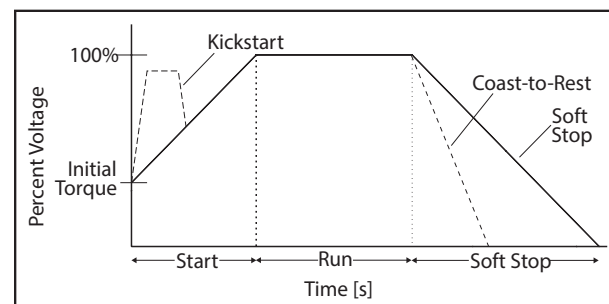
152H-C\*XBD\* - SMC-3 with Disconnect

153H-C\*XBD\* - SMC-3 with Circuit Breaker

### Features and Benefits:

- Internal bypass to reduce heat; long mechanical life
- Cost-effective replacement solution for traditional electro-mechanical soft starting methods.
- Control start-up torque to less mechanical and thermal stresses on motor winding and bearings
- Lower peak currents during starting reduces system maintenance, driving operating costs down
- Line and motor diagnostics detect single-phase conditions, protecting against motor damage

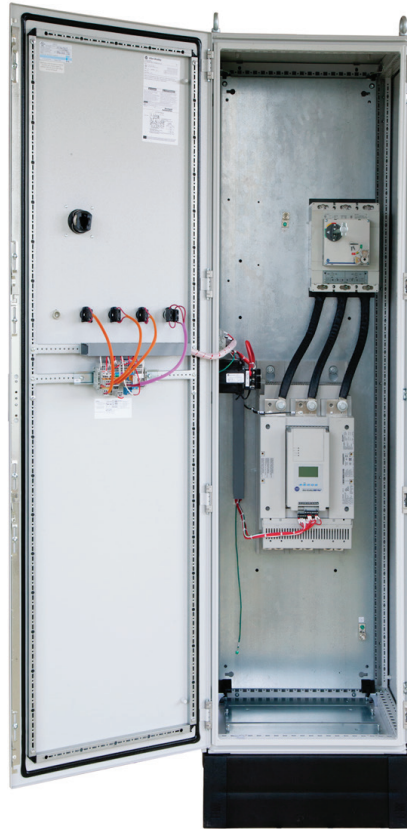
### Operating Mode



Soft Starter

Additional features of the SMC Flex with optional Pump Control Module include:

- Built-in LCD display and flexible communications providing advanced performance, diagnostics and protection
- Modular design for simple installation and commissioning



The SMC™ Flex soft starters available in floor-standing enclosures as 152F-\*-PC\* or 153F-\*-PC\*

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