

# Altistart 48

Soft starters for advanced performance and flexible control



## Applications

Enclosed Altistart 48 soft starters are designed for use in state-of-the-art applications primarily found in construction, food and beverage, and chemical industries including:

- > Centrifugal machines
- > Pumps
- > Fans
- > Compressors
- > Conveyors
- > Mixers and agitators
- > Crushers and grinders

The Altistart™ 48 soft starter offers advanced electronic soft-start, soft-stop performance for three-phase squirrel cage asynchronous motors between 3 – 1,200 HP. The high performance algorithms of the Altistart 48 soft starter contribute significantly to its robustness, safety, and easy setup.

The cost-effective Altistart 48 features:

- > Motor protection functions
- > Control system communication functions
- > Ramp and starting torque adjustment
- > Bypass function with a contactor
- > An advanced torque control system providing:
  - Linear acceleration/deceleration independent of motor loading
  - Controlled acceleration for high inertia loads and air supply fans
  - Ability to control oversized motors by up to 30%

## Product benefits

- > Patented torque control system
  - Optimizes ramp control during soft starting and stopping
  - Minimizes motor temperature during acceleration
  - Requires minimal adjustment for most applications
- > Ease of use and maintenance
  - External changeover circuit unnecessary with dual ramp
  - Conforms to a majority of installations without adjustment
  - Preset for quick and easy set-up and installation
- > Reliability
  - Meets UL requirement for motor overload and ground fault protection without extra options
  - Conforms to (EMC) standards
  - Reduces nuisance tripping with  $\pm 5\%$  frequency tolerance for Class 3 Generator market
  - Meets a variety of application requirements — pump specific version not required to handle water hammer problems

Make the most of your energy<sup>SM</sup>

**Schneider**  
Electric

## Product features

### Functions facilitating the integration into your control systems:

- > Voltage range: 208 V to 575 V
- > I/O: four LI, two LO, one AO, three relay outputs, and plug-in I/O connectors
- > Functions for configuring a second motor and easy-to-adapt settings, display of electrical values, the state of the load, and the operation time

### Configuration and communication options:

- > SoMove™ software for easy testing and commissioning
- > Operator interface developed for quick and easy programming and real-time monitoring of motor and soft starter performance
- > Remote mount kit and remote terminal option available for increased input and output capability
- > Communication options include:
  - Web-based Ethernet
  - Modbus Plus
  - DeviceNet
  - Profibus DP

### Other features:

- > LED display — seven segment
- > IP20 and IP00 design
- > Simplified wiring with top and bottom connections
- > Integrated Modbus protocol
- > RJ45/RS485 communication port
- > Three current sensors
- > Thermal protection by I<sup>2</sup>t calculation, with PTC probes
- > Overload detection function
- > Bypass available on all ratings
- > Automatic restart
- > Integrated functional keypad
- > SCRs designed with 1,800 V PIV ratings
- > Frequency tolerance ±5%
- > Temperature ratings up to 60°C

## Product range overview

Voltage Range	208 VAC – 690 VAC 3-phase
Current Range (ICL)	17 to 1,200 A
Power Range (HP)	3 to 1,200
Control Voltage	110 VAC
Ramp Up Time	> 30 sec
Starts/hr	1 to 10
Enclosure Types	Available in Type 1, Type 12, Type 3R enclosures*

\* See Enclosed Altistart 48 for details.



For more information, visit  
[www.schneider-electric.com/us](http://www.schneider-electric.com/us)  
and enter key code **p701v**.

Enter key code

> OK



### Schneider Electric USA

Automation and Control Center of Excellence  
8001 Knightdale Blvd.  
Knightdale, NC 27545  
Tel: 888-778-2733  
[www.schneider-electric.com/us](http://www.schneider-electric.com/us)

### Schneider Electric Canada

19 Waterman Avenue  
Toronto, ON M4B 1Y2  
Tel: 1-800-565-6699  
[www.schneider-electric.com/ca](http://www.schneider-electric.com/ca)