

The Compact Soft Starter with Integrated Bypass

Altistart™ 22

Soft start/soft stop motor control for commercial and light-duty industrial applications



Make the most of your energySM

Schneider
Electric



Altistart 22 soft start/ soft stop unit

The Altistart 22 soft start/soft stop unit uses both voltage and torque control to provide a soft start and soft stop for three-phase asynchronous motors between 17 A and 590 A.



Innovative,
economical
and safe



Customer values:

- Reduce your wiring cost and installation time
- Save your valuable mounting space
- Decrease your operating cost
- Improve your machine performance

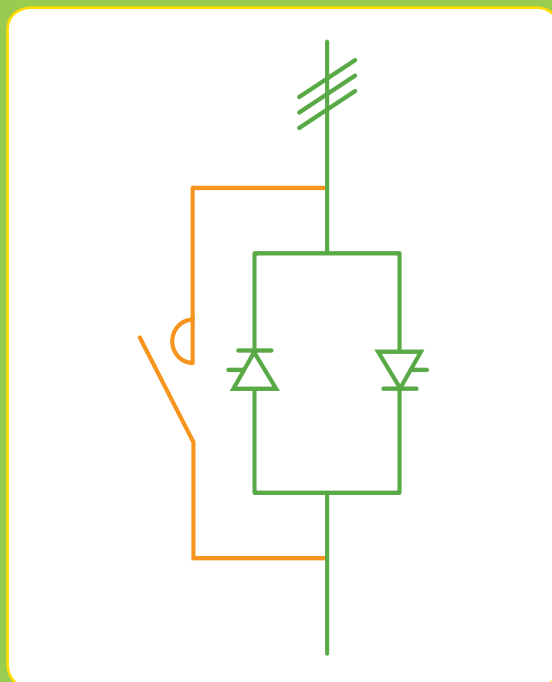
Your benefits with an integrated bypass contactor



Installation couldn't be simpler

- ✓ Integrated bypass reduces the number of external components: power wiring, contactor and control wiring for coil
- ✓ Wiring 6 terminals instead of 12 saves time and cost
- ✓ Fewer components and wiring points reduces heat dissipation allowing for a smaller enclosure
- ✓ Fewer components improves the reliability of the installation and decreases maintenance cost

Integrated bypass contactor



50%

reduction in
wiring time

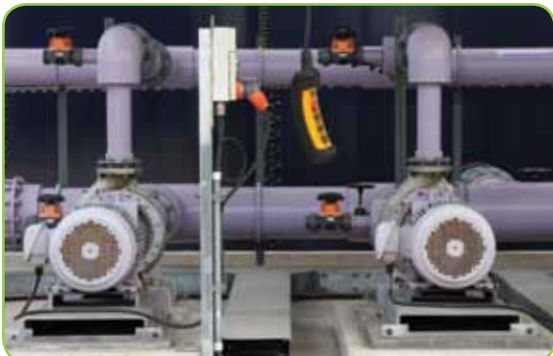
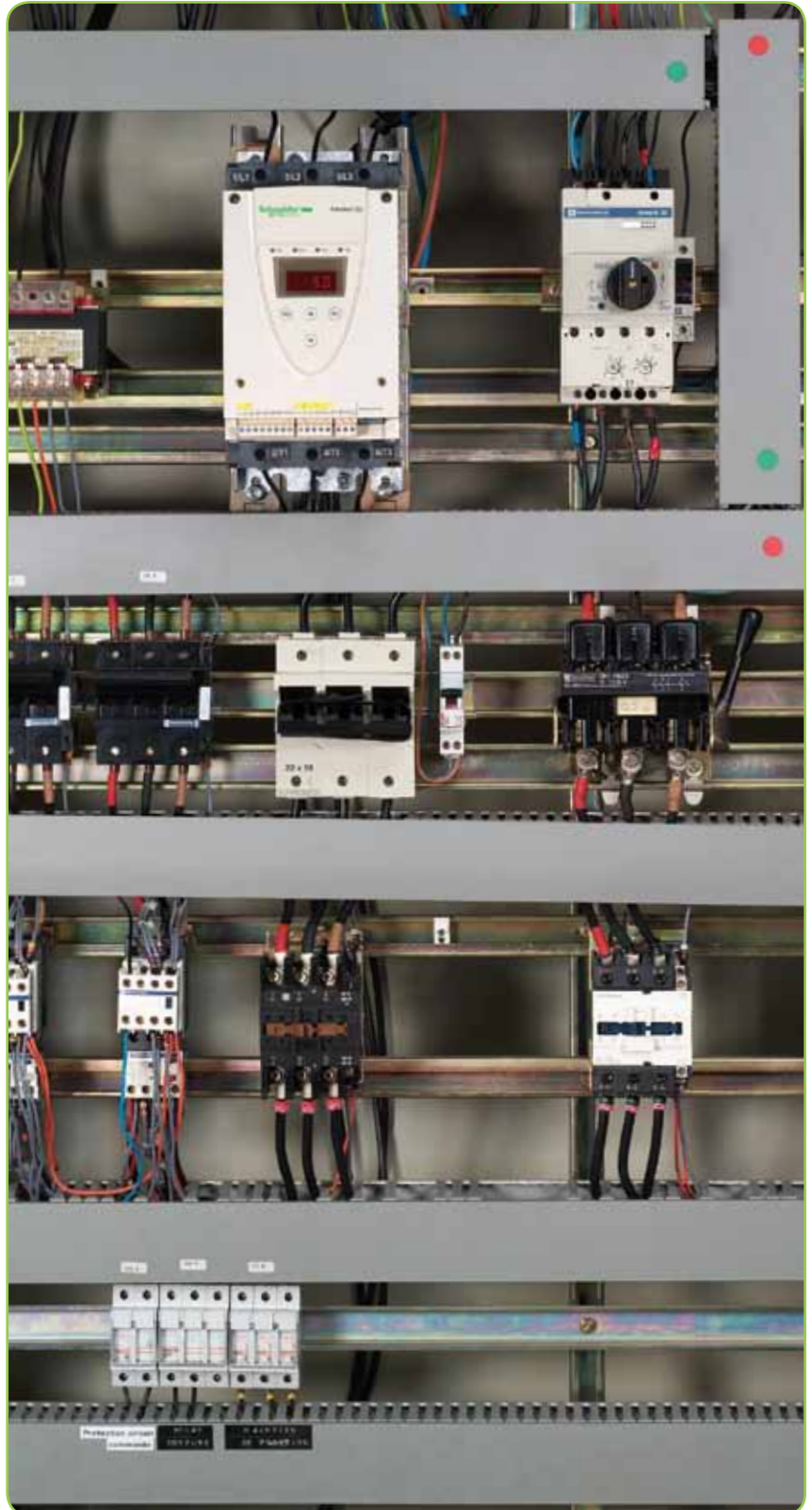
Bypass the stress

Decrease your operating cost

The Altistart 22 soft start/soft stop unit controls motor current in-rush, reducing your electrical demand cost. Conformal coated printed circuit boards provide enhanced resistance to harsh environments, increasing the service life of your installation and reducing maintenance cost.

Improve your machine performance

- The Altistart 22 soft start/soft stop unit incorporates true three-phase control with other protection functions to monitor and protect your machine to sustain up-time
- The soft start and soft stop reduces mechanical stress on your machine increasing productivity while protecting your delicate goods



Programming and communication made simple

Altistart 22 communicates easily

- The integrated keypad display provides access to configuration menus and provides real-time visual feedback
- The easy start menu guides you through the basic parameters to get you up and running quickly
- The multi-function integrated Modbus® port allows connection to either:
 - » A remote-mount keypad to allow access outside of the enclosure
 - » Connection to a Modbus network for remote communication
 - » SoMove™ PC software for configuration and diagnostics



- ✓ Safe
- ✓ Practical
- ✓ Also available in IP65 version



Integrated functions to optimize your machine

Centrifugal pump

- Soft slowdown and stopping reduces water hammer
- Protection against underloads and reversed rotation

Piston pump

- Monitors pump priming and direction of rotation
- Voltage boost on start up

Fan

- Underload parameter for broken belt detection
- Brakes torque on stopping

Turbine blowers

- Thermal monitoring of the motor with an electrically-isolated PTC probe

Refrigerant compressor

- Monitors starting characteristics
- Manages number and time lapse of starts

Screw compressor and centrifugal compressor

- Protection against reversed rotation
- Contact for automatic draining on stopping

Conveyor

- Overcurrent threshold and time delay parameter for load monitoring
- Second set of motor parameters based on the load carried

Screw conveyor




- Input to monitor external state or condition

Agitator, mixer

- Displays the current indicating the density of the material
- Automatic cooling fan control



Altistart product family

| Model | Altistart 01 | Altistart 22 | Altistart 48 |
|---------------------------------|---|--|--|
| |  |  |  |
| Voltage range | 110 Vac to 480 Vac single-phase 110 Vac to 480 Vac three-phase | 208 Vac to 575 Vac three-phase | 230 Vac to 415 Vac three-phase 208 Vac to 690 Vac three-phase |
| Current range (ICL) | 3 A to 12 A, single-phase 6 A to 32 A, three-phase | 17 A to 590 A | 17 A to 1200 A |
| Control power options | 24 Vdc, 24 Vac or 120 Vac | — | — |
| Horse power range | 1/4 HP to 2 HP, single-phase 1/2 HP to 20 HP, three-phase | 3 HP to 500 HP | 3 HP to 1200 HP |
| Communication | — | Embedded Modbus | Embedded Modbus Available options: Web-based Ethernet, FIPIO®, Modbus Plus, Devicenet |
| Software | — | SoMove | PowerSuite/SoMove |
| IP | IP20 | IP00, IP20 | IP00, IP20 |
| Starts per hour | Minimum of 10 | 6 standard-duty only | 10 standard-duty, 5 severe-duty |
| Motor start/stop control method | Reduced voltage starting; torque limiting on start-up | Current limit on starting, acceleration and deceleration time settings for voltage ramp | Exclusive torque control system (TSC) for linear starting and stopping, or by current limit adjustment up to 5 times the device rating |
| Analog inputs | none | 1 PTC probe | 1 PTC probe |
| Logic inputs | none | 3 | 4 |
| Analog outputs | none | none | 1 |
| Logic outputs | none | none | 2 |
| Relay outputs | none | 2 (N.C./N.O.) | 3 |
| Human interface | Adjustment dials and two indicator LEDs | 4 LED (Ready, Communication, Run and Trip), 4 seven segment display | 3 seven-segment display |

Due to possible changes in standards and equipment, the features described in this document in the form of text and images are subject to confirmation by Schneider Electric.

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