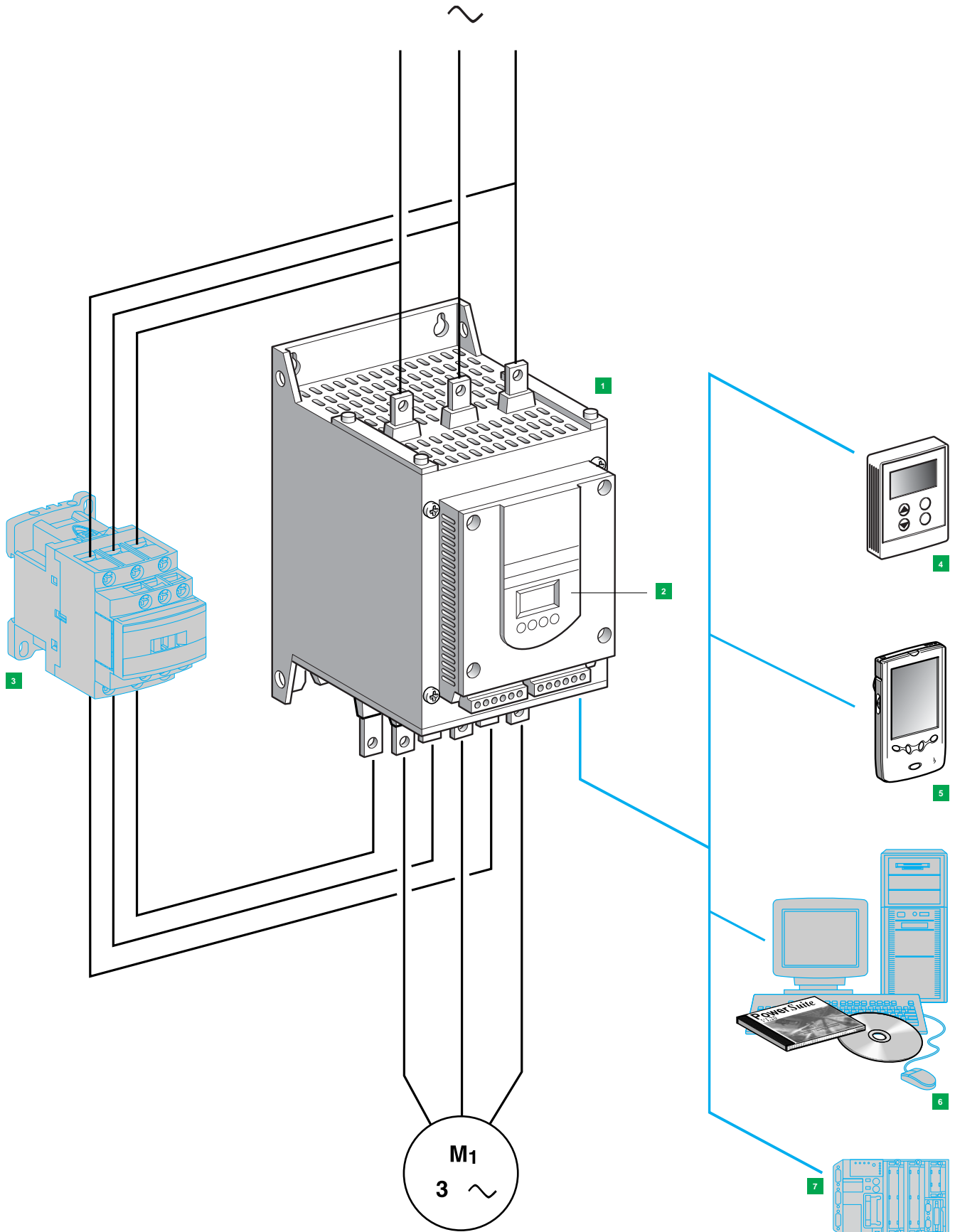


Soft starters for asynchronous motors

Altistart 48 soft start - soft stop units



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Applications

The Altistart 48 soft start - soft stop unit is a controller with 6 thyristors which is used for the torque-controlled soft starting and stopping of three-phase squirrel cage asynchronous motors in the power range between 4 and 1200 kW.

It offers soft starting and deceleration functions along with machine and motor protection functions as well as functions for communicating with control systems. These functions are designed for use in state-of-the-art applications in centrifugal machines, pumps, fans, compressors and conveyors, which are primarily to be found in the construction, food and beverages and chemical industries. The high-performance algorithms of the Altistart 48 contribute significantly to its robustness, safety and ease of setup.

The Altistart 48 soft start - soft stop unit is a cost-effective solution which can:

- reduce machine operating costs by reducing mechanical stress and improving machine availability,
- reduce the stress placed on the electrical distribution system by reducing line current peaks and voltage drops during motor starts.

The Altistart soft start - soft stop unit offer comprises 2 ranges:

- three-phase voltages 230 to 415 V, 50/60 Hz,
- three-phase voltages 208 to 690 V, 50/60 Hz.

In each voltage range, the Altistart soft start - soft stop units are dimensioned for standard and severe applications.

Functions

The Altistart 48 soft start - soft stop unit (**1**) is supplied ready for use in a standard application with motor protection class 10 (see page 60526/5).

It comprises a built-in terminal (**2**) which can be used to modify programming, adjustment or monitoring functions in order to adapt and customise the application to meet individual customer requirements.

■ Drive performance functions:

- exclusive Altistart torque control (patented by Schneider Electric),
- constant control of the torque supplied to the motor during acceleration and deceleration periods (significantly reducing pressure surges),
- facility for adjusting the ramp and the starting torque,
- the starter can be bypassed using a contactor (**3**) at the end of the starting period whilst maintaining electronic protection (by-pass function),
- wide frequency tolerance for generator set power supplies,
- the starter can be connected to the motor delta terminals in series with each winding.

■ Machine and motor protection functions:

- built-in motor thermal protection,
- processing of information from PTC thermal probes,
- monitoring of the starting time,
- motor preheating function,
- protection against underloads and overcurrents during continuous operation.

■ Functions facilitating the integration of the unit into control systems:

- 4 logic inputs, 2 logic outputs, 3 relay outputs and 1 analogue output,
- plug-in I/O connectors,
- function for configuring a second motor and easy-to-adapt settings,
- display of electrical values, the state of the load and the operating time,
- RS 485 serial link for connection to Modbus.

Options

A remote terminal (**4**) can be mounted on the door of a wall-fixing or floor-standing enclosure.

PowerSuite advanced dialogue solutions:

- PowerSuite Pocket PC with PPC type terminal (**5**),
- PowerSuite software workshop (**6**).

A range of wiring accessories for connecting the starter to PLCs via a Modbus connection (**7**).

Bus communication and Ethernet, Fipio, DeviceNet and Profibus DP network communication options.