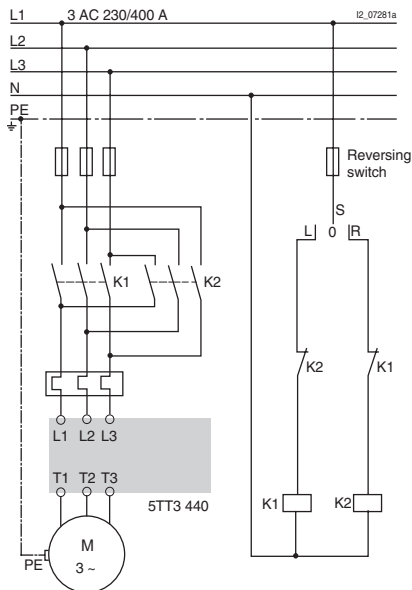


Schematics

Switching example: 5TT3 440



The soft-starting device is an electronic control for the soft startup of 3-phase asynchronous machines. Two of three phases are influenced by the phase control such that the current rises steadily. This also increases the motor torque and the drive starts up smoothly.

Because drive elements are handled more gently they can be designed more cost-effectively. As well as a considerable reduction in startup noise, this also helps prevent the tipping or sliding of materials to be transported. The starting current is minimized.

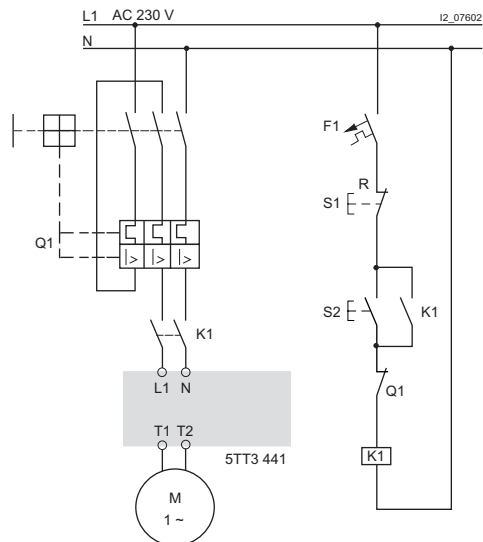
To prevent losses in the device, the power electronics are bridged with relay contacts after startup.

Note:

There is no speed adjustment. There is no marked soft start behavior without a mechanically connected load. In the case of high switching frequencies, we recommend installing a thermistor motor protection for monitoring the permissible motor temperature.

The soft-starting device must not be operated with capacitive load. There must be no source of heat located underneath the device. However, soft-starting devices can be arranged next to each other.

Switching example: 5TT3 441



The soft-starting device is an electronic control for the soft startup of one-phase asynchronous machines. A phase control causes the current to rise steadily. This also increases the motor torque and the drive starts up smoothly.

Because drive elements are handled more gently they can be designed more cost-effectively.

As well as a considerable reduction in startup noise, this also helps prevent the tipping or sliding of materials to be transported. The starting current is minimized.

To prevent losses in the device, the power electronics are bridged with relay contacts after startup.

Note:

There is no speed adjustment. There is no marked soft start behavior without a mechanically connected load. If the power semiconductor is to be protected against short circuits or ground faults during startup, a super-quick fuse must be installed. Otherwise, the usual line and motor protective measures must be used. In the case of high switching frequencies, we recommend installing a thermistor motor protection for monitoring the permissible motor temperature.

The soft-starting device must not be operated with capacitive load. In order to ensure the safety of persons and systems, only suitably qualified personnel should work on these devices.