

Soft Starter

Type SSAZ 1.5 - 3



Design

With the soft starter SSAZ a bi-directional power semi-conductor is integrated into **two of the three phases**.

By the time-dependant control of the ignition angle it is achieved, that initially only a small current flows into the phases, which progressively increases until the max. current flow angle is effective.

The rate of current rise (acceleration time) and the initial torque (boost) of the motor can be set separately. The setting-potentiometers are accessible by removing the front cover.

If, after the set-up time the maximum angle of current flow is effectively, the power semi-conductors are bypassed by integrated relay-contacts, so that the start-up electronic is no longer engaged.

Through the regulation of the 2 phases, an asymmetric rotating field is generated which causes a higher thermal loss of the motor. For this reason the switching frequency of the motor is limited. Generally, it can be said that the admissible switching frequency is reduced to 1/10.

Adjustment instructions

1. Set the potentiometer „boost“ on 0.
2. Set the potentiometer „acceleration-time“ to maximum.
3. Set the potentiometer „deceleration-time“ to minimum.
4. Start the motor. If the motor runs very slowly, switch the motor of and increase the “boost”. The optimum time setting is reached if the relay engages after completion of the acceleration phase.

The optimal timing for the deceleration is set according to the conditions at the plant

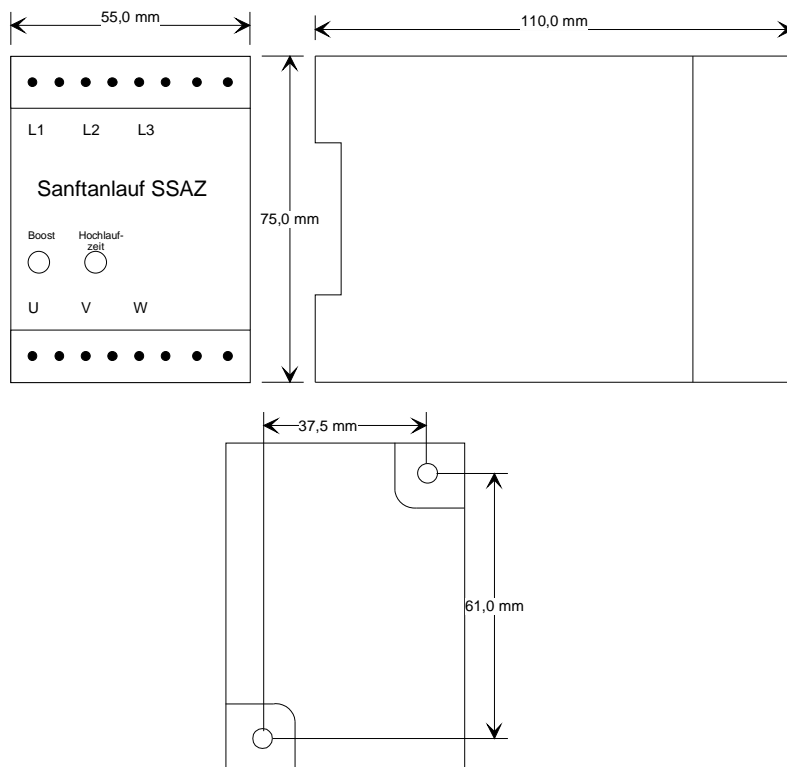
LED Functions

Yellow LED	Ready
Green LED (flashes)	Accelerates or decelerates
Green LED (Lights up)	Bypass-Relays have pulled

Technical Data

Type	SSAZ 1.5 – 3
Nominal voltage	400V
Frequency	50 Hz
Max. motorpower	1,5 – 3,0 kW
Running-up-time	0,3 s – 20 s
Storage-temperature	- 20 °C bis 75 °C
Operating-temperature	0 to + 40°C
Protection-class	IP 20

Dimension and Drill Plan



Connections

Anschlussplan

