

## A-Start soft starter adjusting guide

### **General**

**A-Start**<sup>®</sup> is a soft starter unit for AC motors. It is used in motors where mechanical jerks and/or starting current causes problems. The starting ramp of **A-Start**<sup>®</sup> is not adjusted with time. Instead of time you only need to adjust the starting current, no other adjustments needed. **A-Start**<sup>®</sup> automatically recognize when working rotation is reached.

### **Operation**

#### **Control unit DRV**

In the beginning **A-Start**<sup>®</sup> has about a half second magnetization cycle of the motor. After that it starts accelerating the motor with the adjusted current of the trimmer **Ts** (more information about adjusting read following title “Adjusting”). When working rotation is reached (lag approx. 10%), the by-pass contactor of the thyristor unit switch on and the motor works through the main circuit. The “Motor run” information can be seen on the by-pass contactor.

### **Coupling**

Use the circuit diagram delivered together with **A-Start**<sup>®</sup>. Most of the common circuit diagrams can be found also from our website [www.ateo.fi](http://www.ateo.fi).

### **Adjusting**

**A-Start**<sup>®</sup> soft starter is preliminary adjusted by manufacturer to 4 x In. To have right torque for your needs, start the motor and adjust the desired starting torque. For faster accelerating turn trimmer **Ts** clockwise (torque grows) and vice versa. Adjustment range 240°, about 2,5-5,5 x In depending on main voltage.

Make sure to have sufficient starting torque for the motor to reach working rotation and allow the by-pass contactor to switch on.

### **PLEASE NOTE!**

Use separate contactor for compensating condensator.