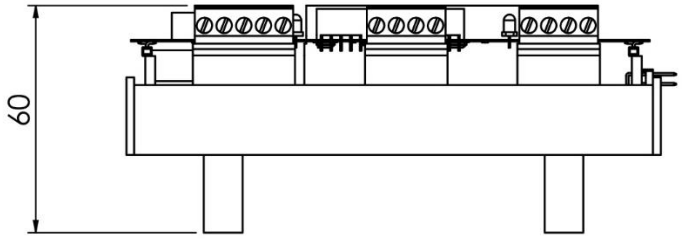
AKE.100.003.01.01

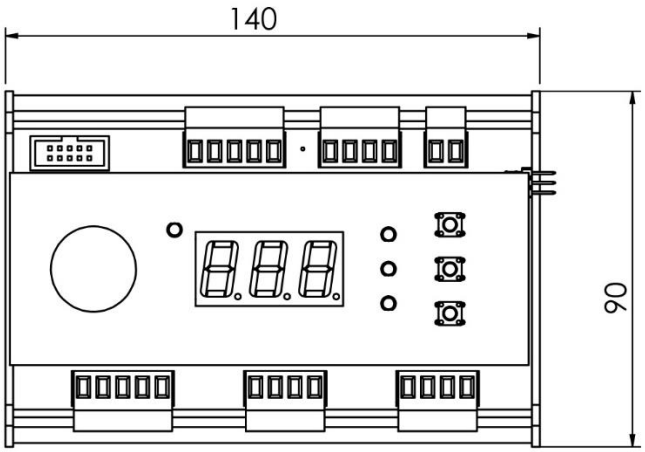
THRISTOR MODUL DRIVER CARD

USER MANUAL

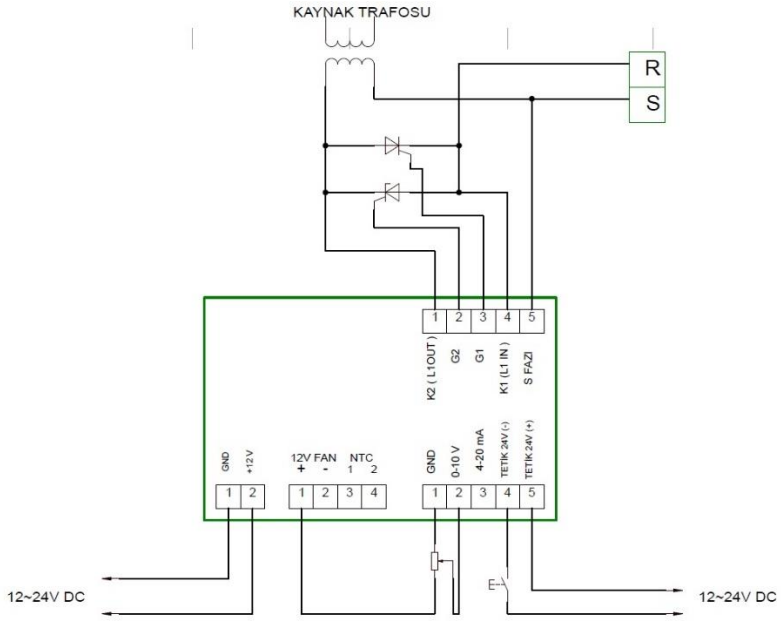
AKE TRONIC®
ELECTRONIC SYSTEMS

1.DEVICE DIMENSIONS





2.DEVICE CONNECTION DIAGRAM



3. CAUTIONS

- Be sure to read the operating instructions before using the appliance and follow the instructions and cautions in the manual when using the appliance. Otherwise the responsibility for accidents and damages that may belong to the buyer.
- Installation and connection of the device should be done by experienced technicians in accordance with the diagram. Otherwise the responsibility belongs to the buyer.
- The operating ambient temperature of the device should be between 0 to 50 °C.
- The supply voltage must be checked before the device is energized.
- Precautions must be taken to prevent liquid flow into the device and metal cips to conduct. Otherwise, there may be accidents such as fire and electric shock.
- In case of any malfunction, do not interfere with the device. If the malfunction continues, notify the service in writing with the explanation.
- Electrical and mechanical precautions must be taken to prevent accidents and damages if the device is broken while being attached to the machine.
- Never remove the warranty label. Otherwise, your device is not covered by the warranty. The appliance must be repaired by authorized service personnel.
- The cables carrying the sensor and input signals to the device shall be prevented from being moved and influenced separately as far as possible from the inductive load cables operating as feed, control, switching.
- Shielded cables should be selected for the cables that carry the sensor and input signals to the device, and the cable shield must be connected to the ground.
- If more than one electronic device is used, separate feeder lines for each device must be towed. Insulation traces and line filters should be used on the supply line where there is excessive electrical noise.
- No control circuit should be connected to the device supply line.
- The appliance should be cleaned with a soft, damp cloth with a front panel. Thinner etc. do not use substances.
- Please do not use high-torque screwdrivers when mounting the device.

4. INTRODUCTION

Solid state relay unit is elektronic switching device. It facilitate controlling operation with high switching speed, longer lifetime and operating feature in hard conditions.

4.1 STANDARD TECHNICAL SPECIFICATIONS

- Integrated Operation with all thristor modules
- 1 unit 3 digit 7 segment display
- 12 VDC operating voltage
- Warning Buzzer System
- 4 units caution led
- 4-20mA, 0-10V, on-off operating options
- Over temperature protection
- Parametric operating order
- Parameter setting system with 3 buttons
- Single Phase or Tri-Phase Controlling Feature
- 85-400VAC controlling voltage

5.DEVICE FUNCTIONS

5.1 MANUFACTURER PARAMETERS

When energized, the system opens first with the worksheet. To make parameter settings of the card, enter the menu with any button while it is on the operation page. First, the following screen appears.

On this screen, you can press the arrow button and enter the password. Set the password to 42 and press the arrow button to start parameter setting from the menu.

You can switch between parameters in the menu with the up and down buttons.

5.1.1 CURRENT PARAMETER

From the menu, we can select the current control option by pressing the arrow key by coming to the parameter P0.

If P0 parameter P0.1 is selected, the current setting is 0-10V.

If parameter P0 is selected P0.2, the current setting is to be done with 4-20mA.

If the P0 parameter P0.3 is selected, the current setting will be made from the A0 parameter on the card's menu.

5.1.2 CURRENT TIME PARAMETER

From the menu, we can select the source time control option by pressing the arrow key by coming to the P1 parameter.

If the P1 parameter is selected as P1.1, the welding time will not be a fixed time. Welding last as long as the trigger.

If the P1 parameter is selected as P1.2, the welding time will be the value which is entered with the help of T0 parameter on card menu. In this parameter a trigger must be present to start the welding. After the trigger, welding is done for the set time. The trigger must be released and re-activated to restart the source

NOTE : The password section is provided for the manufacturer to protect the current and time parameter settings mentioned above. The password can be entered from L0.

5.1.3 KAYNAK MİNİMUM PARAMETRESİ

Please use UP/DOWN buttons to reach q0 parameter and then touch OK. button to adjust minimum welding parameter.

5.1. WELDING MAXIMUM PARAMETER

Please use UP/DOWN buttons to reach q01 parameter and then touch OK. button to adjust maximum welding parameter.

5.1.5 RAMP SETTING

Please use UP/DOWN buttons to reach C0 parameter and then touch OK. button to adjust ramp value between 0 and 100.

5.2 USER PARAMETERS

User should randomly touch a button to access setting menu . The L0 parameter is password entrance . User should not manage this page.

5.2.1 WELDING DELAY TIME

T1 parameter provides delaying for T1 time. After the trigger arrives, the welding operation does not start immediately and starts with a delay of T1 times. In this menu, 0.1 second sensitivity can be adjusted. If the arrow key is pressed after the setting is made, it is saved.

5.2.2 KAYNAK SÜRESİ

The user can only see this item if the P1 parameter is set to P1.2. This parameter can set the welding time with 0.1 second precision. If the arrow key is pressed after the setting is made, it is saved.

5.2.3 WELDING CURRENT SETTING

The user can only see this item if the P0 parameter is set to P0/3. This parameter can set the welding time with 0.1 second precision. his parameter allows the source current to be set to a value between 0 and 100. If the arrow key is pressed after the setting is made, it is saved.
If the arrow key is pressed after the setting is made, it is saved.

Not: After making adjustments in the menu, it returns to the worksheet after a certain period of time on the main menu page. Or if you select the L0 parameter 1 and press the arrow key, it returns to the workshee

Not: The display flashes on the setting pages. The screen is fixed on the worksheet.

Not: The L1 and L2 LEDs are lit when the reference phases of the card arrive. When the trigger comes, the signal is lit.