



YILDIRIM
ELEKTRİK CİHAZLARI SANAYİ TİCARET LTD.ŞTİ.



Since
1980

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PROGRAMMABLE CATAPHORES PAINTING RECTIFIER USER MANUAL

Read user manual carefully before set up the rectifier.

SETTING UP THE RECTIFIER

Place the rectifier on a flat ground. Rectifier working space has to be not moist, wet and there must be enough distance around the rectifier for ventilation. Rectifier do not exposed to direct heat source.

Plug in energy cable to suitable grounded socket (AC 380 V 50 Hz., Mp and Ground). **RECTIFIER MUST BE GROUNDED.**

Rectifier has positive and negative output bars to make output connections. Red coloured bar is positive end (+, anode) and black coloured terminal is negative end (-, cathode). Take care of the connections are tighten.

PROGRAMMING

Before start the rectifier, rectifier running parameters have to be programmed and stored in system memory. When the system is shut down, the parameters not be lost. In case of to start the system, rectifier runs at programmed values.

Memory has 3 processing steps and 5 independent programs of each one includes these steps: These are ISLATMA (soaking), YUKSELME (rising), CALISMA (working) and P1, P2, P3, P4, P5.

P1, ... P5 programs independent of each other. For every (P) program, different ISLATMA, YUKSELME and CALISMA time values can be programmed. To enter parameters use RIGHT, LEFT, UP and DOWN ARROW buttons. RIGHT and LEFT ARROW buttons select the indicator that ready to accept increment or decrement.

To change process time, use RIGHT and LEFT buttons to go first digit of process program. Press UP and DOWN buttons to select desired process type which you want to modify (ISLATMA, YUKSELME or CALISMA) and set SAAT (hour), DAKIKA (minute), SANIYE (second) intervals.

PROCESS TIME

System has 3 process times. These are ISLATMA, YUKSELME and CALISMA.

1- ISLATMA : During "Soaking Time" rectifier output does not produce voltage. If do not want to use "Soaking Time", set 00:00:00.

2- YUKSELME : Rectifier reaches the voltage value that entered voltage digit, throughout "Rising Time". For example, to assume voltage 20 Volt and Rising Time 20 seconds, when ISLATMA time is end, voltage starts to rise 1 Volt per a second and reaches 20 Volts at 20 seconds.

3- CALISMA : It is the working period of time at programmed voltage. It puts into use afterwards Rising Time ends and when programmed period of time finishes, it automatically stops.

VOLTAGE PROGRAMMING

Rectifier operates voltage controlled. Before start to run rectifier, operating VOLTAGE have to be programmed to desired value. Rectifier gives fix voltage on output , but current changes according to the load.



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START / STOP

After required settings fixed, to start operation, press two coloured (red/green) START/STOP button. The colour of led indicator becomes green to indicate start of operation and time value begins countdown. During "Soaking Time" current and voltage displays are zero. At that time rectifier not gives output. When "Rising Time" begins voltage starts to rise. At the end of rising time, rectifier begins to working. When "Working Time" reaches to zero, rectifier stops automatically and led indicator becomes red. If you wish to stop rectifier manually in any time, press two coloured START/STOP button or GREEN one (it added for easy use). Rectifier cancel process and stops, led indicator becomes red. In this case all displays turn their programmed values.

WARNING MESSAGES

Rectifier has heat and phase protect systems. In the case of heat rises, rectifier responds with FAZLA ISI (over heat) warning message on program display and stops operation. Rectifier temperature might be over thermostat degree (thermostat have to be set to max. 70 °C) or thermostat degree might be reduced.

In case lack of any line, rectifier responds with EKSİK FAZ (lack phase) warning message on program display and stops. In such a situation make a qualified person to check main connection or availability of lines at the input of rectifier.

In the case of wrong phase connection rectifier does not operates, responds with TERS FAZ (wrong phase) warning message on program display. Switch and re-arrange phase connections.

ATTENTION! After correct the situation causes to warning message, Shut down the rectifier, wait 5 seconds and restart.