

## Genel

DGK-01 and DGK-01W voltage control relays are designed to block monophase loads malfunctions arising from network.

## Device Usage and Working Principle

To set the **high voltage value**, set the "U>" control knob to the desired value.

To set the **low voltage value**, set the "U<" control knob to the desired value.

To set the **delay time**, set the "t" control knob to the desired value.

The set values is displayed on the display when adjusting with the setting knobs. 2 seconds after releasing the set knob then on the display shows the measured voltage value.

If the voltage is between the set high "U>" and low "U<" voltage set values, the "Out" LED turns on and the relay is energised.

## Protection Functions

**High Voltage Protection - To enter the error state:** If the voltage, goes above the high voltage set value, the "U>" LED is on, the device waits until the set delay time "t", after the time has elapsed the relay gets de-activated and the "Out" LED is off.

**High Voltage Protection - Exiting the error state:** When the voltage drops below 5V of the high voltage set value, the device waits for the delay time "t". After the time passes, the "U>" LED is off, the relay gets de-activated and the "Out" LED is on.

**Low Voltage Protection - To enter the error state:** If the voltage goes below the low voltage set value, the "U<" LED is on, the device waits until the set delay time "t", after the time has elapsed the relay gets de-activated and the "Out" LED is off.

**Düşük Gerilim Koruması - Hatadan Çıkma:** When the voltage goes above 5V of the low voltage set value, the device waits for the reset time "t". After the time passes, the "U<" LED is off, the relay gets activated and the "Out" LED is on.

## Relay States

**Relay is Activated:** 2 (COM) and 3 (NC) short circuit, 1 (NC) and 2 (COM) open circuit.

**Relay is De-activated:** 2 (COM) and 1 (NC) short circuit, 3 (NC) and 2 (COM) open circuit.

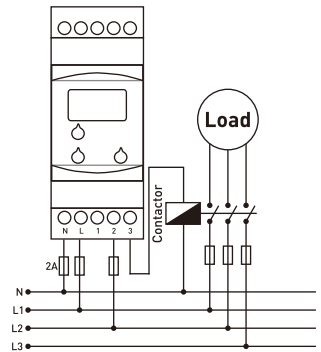
## Warnings

- Please use the device according to the manual.
- Don't use the device in wet.
- Include a switch and circuit breaker in the assembly.
- Put the switch and circuit breaker nearby the device, operator can reach easily.
- Mark the switch and circuit breaker as releasing connection for device.

## Maintenance

Switch off the device and release from connections. Clean the trunk of device with a swab. Don't use any conductor or chemical might damage the device. Make sure device works after cleaning.

## Connection Diagram



## Technical Specifications

Operating Volt.(Un) : 220V AC

Operating Freq. : 50/60 Hz.

Operating Voltage : DGK-01: 140V - 290V (L-N)

Range DGK-01W: 100V - 270V (L-N)

Operating Power : <6VA

Operating Temp. : -20°C.....+55°C

High Voltage Set : 230V - 280V

Low Voltage Set : 150V - 210V  
110V - 210V (on the DGK-01W)

Waiting Time : 0,1sec. - 10sec.

Display : 3x LEDs, 1x3 digit display

Connection Type : Assembled on the din rail.

Weight : 220gr.

Contact : 5A 250V AC Resistive Load

Operating Altitude : <2000m

Cable Diameter : 2,5mm<sup>2</sup>

## Dimensions

