

DKG-193

PHASE SELECTOR RELAY



DESCRIPTION

The Datakom DKG-193 Phase Selector Relay monitors mains phases to output one phase within preconfigured limits. This ensures power continuity for single phase systems by using the healthiest phase.

If the output phase voltage goes outside the programmed limits for the programmed fault duration, another phase is selected and supplied to the output of the device. If none of the input phases are within the limits, No Phase alarm LED turns on.

The unit's voltage limits and fault durations can be configured from the programming menu. In addition, one phase can be assigned priority and contactor blocking mode can be enabled and disabled. Relay outputs can also be enabled/disabled from the programming menu.

The **R-S-T** LEDs located on the front panel indicate which phase is being fed to the output. Alarm LEDs indicate fault status. Blocked contactors can be reset and alarms can be dismissed using the relevant buttons on the unit.

The unit is supplied by the phase input and does not require a DC supply.

FEATURES

DIN Rail Mounted

DC Supply Not Required

Contactor Blocking Mode

Configurable Mains Voltage High-Low Limit

Configurable Mains Voltage Instantaneous High-Low Limit

Priority Phase Configuration

Adjustable Hysteresis Voltage

Adjustable Mains Power Unavailable Limit

Adjustable Relay Transfer Timer

Adjustable Reaction Timers

3A/250VAC Contactor Outputs

Stuck Contactor Alarm

No Phase Available Alarm

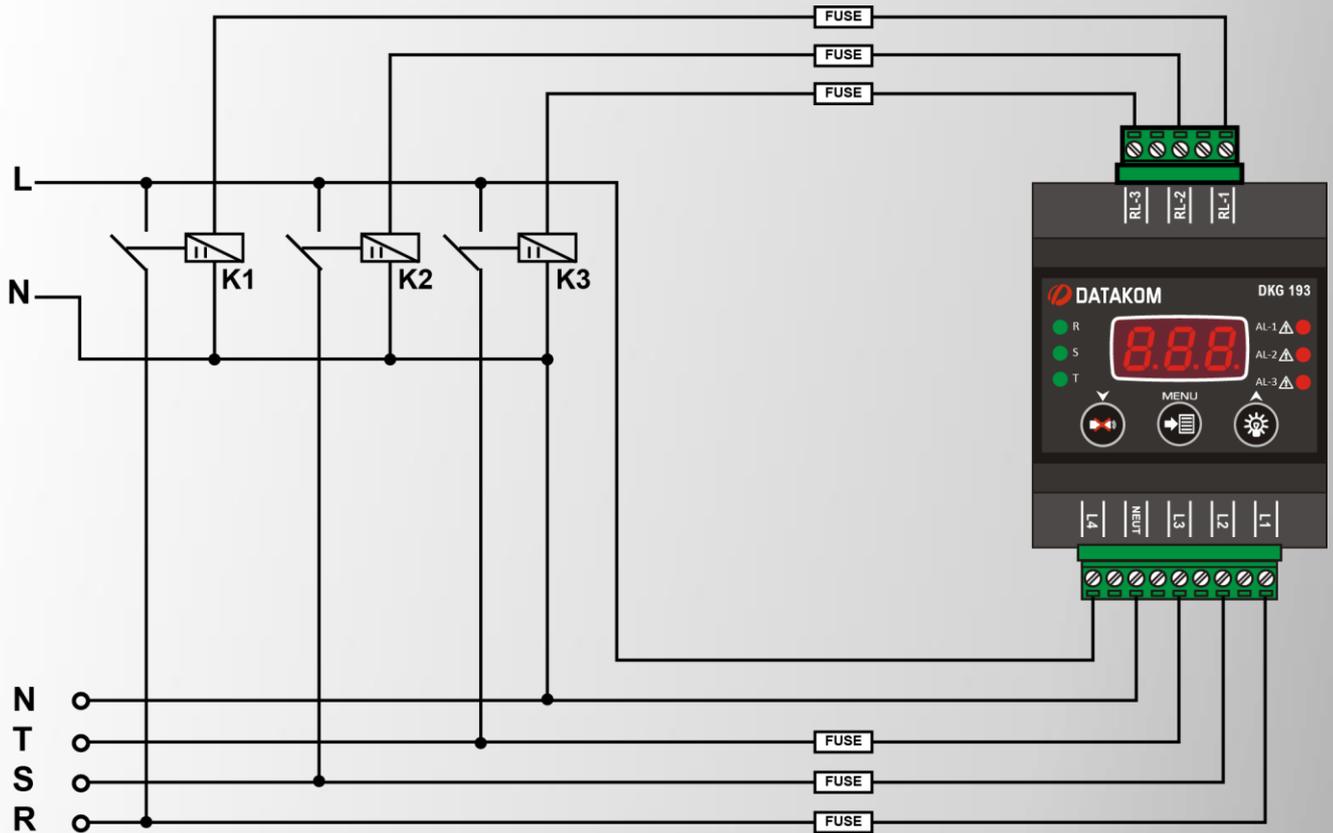
Contactor Fail To Close Alarm



EAC CE

 **DATAKOM**

TYPICAL CONNECTION



OPERATION

The unit switches one of the input phases within the preconfigured voltage limits to the relevant output terminal. If a priority phase is configured and within limits, that phase will always be supplied to the output.

When the **R-S-T** LEDs are lit green, this means that the relevant mains phase is active. If the LEDs are blinking, this means that the relevant phase is out of limits and the unit has started the fault timer. If the **AL-1** LED is lit red, this means that all of the phases are outside the limits and no phase is supplied to the output. If **AL-2** LED is lit red, indicates that the contactor failed to engage. If **AL-3** LED is lit red, this indicates a stuck contact.

TECHNICAL SPECIFICATIONS

Mains Measurement Inputs: 0-300 VAC (Ph-N)
Feedback Input: 0-300 VAC (Ph-N)
Mains Frequency: 50 Hz
Contactor Outputs: 3A @ 250 VAC
Operating Temperature: -30°C to 70°C
Storage Temperature: -30°C to 80°C
Maximum Relative Humidity: 95% non-condensing
Dimensions: 70x115x66mm (WxHxD)
Weight: 200g (approx.)
Mounting: DIN Rail mounted
Enclosure: High temperature resistant ABS/PC (UL94-V0)
IP Rating: IP20

