

## 5.10. DIAGNOSTIC DEVICE DD-1 (ΔY-1)

The device is intended for reception of three-phase voltage, which varies by amplitude and frequency, and is used for support and maintenance of guaranteed power supply units at nuclear power plants.

### *Technical specifications*

**Input voltage:** power supply voltage – 220V +/- 10% (single-phase).

### *Output voltage:*

- galvanically isolated from the input;
- 3-phase, phase-controlled;
- voltage regulation range 0...266 V (phase-based) – keyboard task;
- frequency control range 45...55 Hz – keyboard task;
- accuracy of the output voltage setting  $\pm 1$  V;
- accuracy of a frequency setting of the output voltage  $\pm 0,1$  Hz
- coefficient of nonlinear distortions of the output voltage at the rated load – no more than 4%;
- load power 0-250 W per phase (symmetric load with artificial midpoint).

### *Design features*

DD-1 (ΔY-1) is a portable device in a metal housing with digital indicator of the output voltage and frequency, and the buttons for adjusting the output parameters.

### *The device includes:*

- terminals for supply mains and load connection;
- control terminals for connecting external frequency meter and voltmeter.

