

3.03. VOLTAGE (CURRENT) REGULATORS RENAP-3V (PEHAП-3B)

They are intended for regulating rectified current of up to 500 A in the windings with a voltage of up to 500 V of electromagnetic separators. As a part of electromagnetic system of rotor separators with a high-intensity (high-gradient) magnetic field, RENAP-3V are widely used at the mining-and-processing integrated plants, factories for feebly magnetic ore enrichment, and factories for deep cleaning of quartz and other types of sands from feebly magnetic contaminants.



RENAP-3V regulators provide:

- regulation and stabilization of rectified current in windings of electromagnetic separators;
- optimal characteristics of high-gradient magnetic field taking into account the magnetic system parameters changing during the separator operation;
- optimal transient start-up procedures and regulation in electromagnetic system characterized by large winding inductances in combination with a complex geometry of their arrangement in the separator cases;
- high purity of the magnetic product during feebly magnetic ore enrichment and high degree of feebly magnetic mineral extraction during sand separation.

More than 50 systems of electromagnetic rotor separators with RENAP-3V regulators are successfully used at the enterprises of Ukraine, CIS countries, and East Asia.