

PROJECT INFORMATION

By developing and manufacturing special technical solutions we are creating innovations for solving our customers' problems. Corresponding to their requirements we develop and manufacture different kinds of transformers, voltage stabilizers, chokes, power supply units and power resistors.

Thanks to higher quality, longer service life and lower operational costs RUHSTRAT technology brings you ahead with all kinds of application.

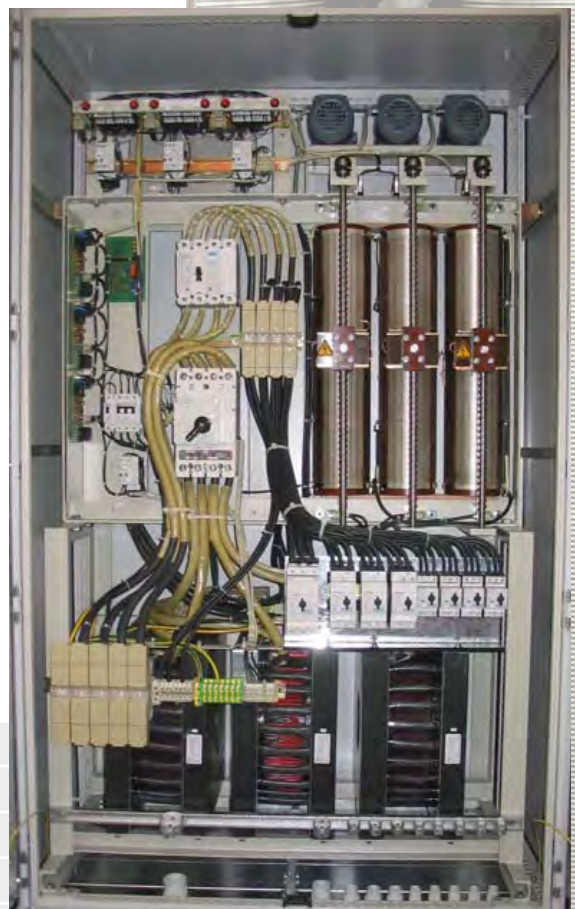
Three-Phase Voltage Stabilizer, Transformer Type

The voltage stabilizer consists of a variable transformer with servo motor, an additional series production transformer and an electronic regulation unit, inserted into a switch cabinet. The voltage stabilizer has the degree of protection IP 55 according to the standard of EN 60529. If the actual value deviates from the rated voltage, the electronic regulator effectuates a voltage adjustment of the variable transformer which, adjusts a voltage corresponding to the deviation via the additional series production transformer. In consideration of the adjustment time of 1.5 to 2.5 seconds the output voltage is kept constant with an accuracy of $\pm 1\%$ of the desired value.

The voltage stabilizer has a separate adjustment of each phase. The separate adjustment of all three phases of the single consumer loads can be differently distributed to the three phases and kept constant. In addition, the incoming mains voltage can be regulated individually for each phase. For this asymmetrical load the voltage deviation is acquired and corrected individually for each conductor.

An additional equipment the voltage stabilizer has a main switch (power switch) with undervoltage release in the input. In the output the voltage stabilizer disposes of 8 power switches.

This voltage stabilizer is used in the tobacco industry, as series connection unit for machines. The power supply system made available to the machines has a deviating voltage. By preconnecting the voltage stabilizers to the machines a constant voltage is available in the output, which guarantees a constant performance of the machine, independent from mains voltage deviations.



transit circuit power	120 kVA
input voltage	400V 3/N/PE, 50/60 Hz
deviation	+ 20%, - 20% from 320V to 480V
max. input current	222 A
output voltage	400V 3/N/PE, 50/60 Hz
load current	173 A
regulation accuracy	$\pm 1\%$
regulation speed	approx. 40V/s
vector group	IIINa0 ZT/SpT, separate adjustment of each phase
cooling	AN (natural air cooling)