

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 Variable Transformer Aggregate

The three-phase variable transformer aggregate consists of a variable column transformer with three subsequently added single-phase high-current transformers. The variable column transformer is constructed with delta connection. This kind of connection permits proper adjustability and loading options, independent between the phases.

The variable transformer aggregate is used for electrical verification of filter circuits. The output voltage of the variable transformer aggregate is adjustable from 0 to 40 V with a rated current of 1000 A and it is switchable to 0 to 20 V, 2000 A resp. 0 to 10 V, 4000 A. With the adjustable voltages and by means of a current regulation one current value is adjusted for the verification and kept constant.

The adjustment of voltage and thus current is effected via push buttons. The adjustment of the regulation speed of the motor drive is carried out by means of variable toroidal transformers. Thus a quick adjustment can be achieved when only a rough adaptation is needed but it is also possible to set the current precisely by means of slow adjustment. This is advantageous when the automatic regulation for adapting the controlled system is car-

ried out. When switching over to automatic the push buttons are blocked and the motors react to the outputs of the electronic step controllers.

The values of current, voltage or power can be read off an instrument, depending on the selected kind of measurement. Due to the converter in front of the voltage measurement path the relatively small voltage values can be indicated with a good accuracy. A signal lamp shows the state (ON/OFF).



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| rated power | 69 kVA |
| rated input voltage | 400V / 50Hz |
| rated output voltage | 0 to 40 V -1000 A, switchable to 0 to 20 V -2000 A or 0 to 10 V -4000 A |
| vector group | Dyn5 |
| cooling | AN (air cooling) |
| degree of protection | IP20 according to EN 60529 |

Characteristics:

- variable transformer with compensation winding for the reduction of voltage drops under load
- hard silver-plated contacts in the current collector system provide constant transition resistances over long periods of operation
- drive via motor drive with interlocked reversing contactor circuit
- 1 limit switch each (min./max.)

