

# 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.

## Single-Phase Variable Transformer Aggregate

The variable transformer aggregate is used for the adjustment of different tripping points with power switches in the low voltage range. With this test the power switches are loaded with different current values of up to 6300 A, thereby, their tripping characteristics are verified.

For the necessary secondary rated current of 6300 A a high-current transformer is used as so-called high-current actuator coil. This high-current actuator coil consists of a wire-wound band ring core with the primary excitation winding through which

a high-current bus bar or a high-current cable is induced. The necessary variable voltage of 0 to 10 V is induced to this high-current bus bar or high-current cable. Due to the high degree of protection (IP 54) the high-current actuator coil can be mounted close to the consumer. Thereby, voltage drops on the leads track are kept small.

The variable column transformer is used for the voltage adjustment of the secondary rated voltage at the high-current transformer.

The digital display equipment is determined for the registration of the measured values (volts, amps, hertz) and can store certain measured values. The variable transformer aggregate is completely mounted and wired so that it is ready for connection.



rated power	72 kVA
rated input voltage	400V / 50 Hz
rated output voltage	0 to 10 V, steplessly adjustable, induction of the secondary voltage to a high-current bus bar / high-current cable
current collection	6.300 A
vector group	10/I(i0)
cooling	AN (air cooling)
degree of protection	IP20 (variable transformer) / IP54 (high-current transformer)

### Characteristics:

- variable transformer with compensation winding for the reduction of voltage drops under load
- constantly low transition resistances in the contact systems due to hard silver-plating
- drive via motor drive with interlocked reversing contactor circuit
- 1 limit switch each (min./max.)

