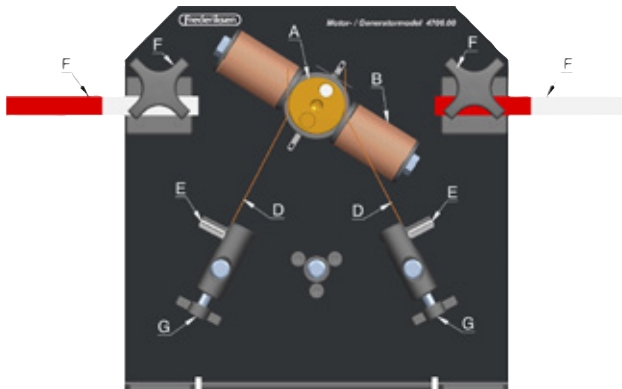


Motor-Generator Model, 4706.00

02.02.11

AE 470600



Motor-Generator Model, 4706.00

Simple model for demonstration of electrical machines

Overview

- A. The rotor axis with slip rings A₂ and A₃ (ends) and commutator A₁ (middle)
- B. Double-T-anchor with iron core
- C. Pole magnets (stator)
- D. Contact springs
- E. Bushings for electrical connection
- F. Fastening with knob screws for solenoid
- G. Fastening with knob screws for contact springs

On the back: Pulleys with belt transmission for manual operation.

Experiments with the Motor-Generator Model

Necessary equipment

- Power supply with smoothed DC voltage
- Incandescent lamp 1.5 V, 0.09 A (4250.15)
- Lamp holder (4120.15 or 4120.00)
- 2 safety cables (1056.10)

Generator

Best effect is achieved with the contact springs AC coupled and the magnets mounted as close to the rotor as possible.

DC motor

Contact springs DC coupled. To reduce friction the belt can be removed on the back. Set the T-anchor vertically and give it an initial push when the voltage (6-10 V) is connected.

The windings on the T-anchor are connected to the two brass parts which together form the slip ring A₂ and A₃ and A₁ commutator.

AC Coupling

Fit the contact springs against the slip rings A₂ and A₃.

DC Coupling

Both contact springs are in contact with the commutator A₁.