magneta	Mounting and Maintenance Instructions Electromagnetic brake type 14.110	07/00

Function:

The electromagnetic brake comprises the assembly groups stator and armature.

On applying a direct current (as specified on the name plate) to the stator coil the armature plate is pulled over the airgap $S_{Lü}$ into contact with the friction face of the stator. Braking now takes place. If the voltage supply is interrupted the armature plate is pulled back to its original position by the preloaded spring, the brake has now released free of residual torque.

Assembly information:

Mounting and maintenance work has

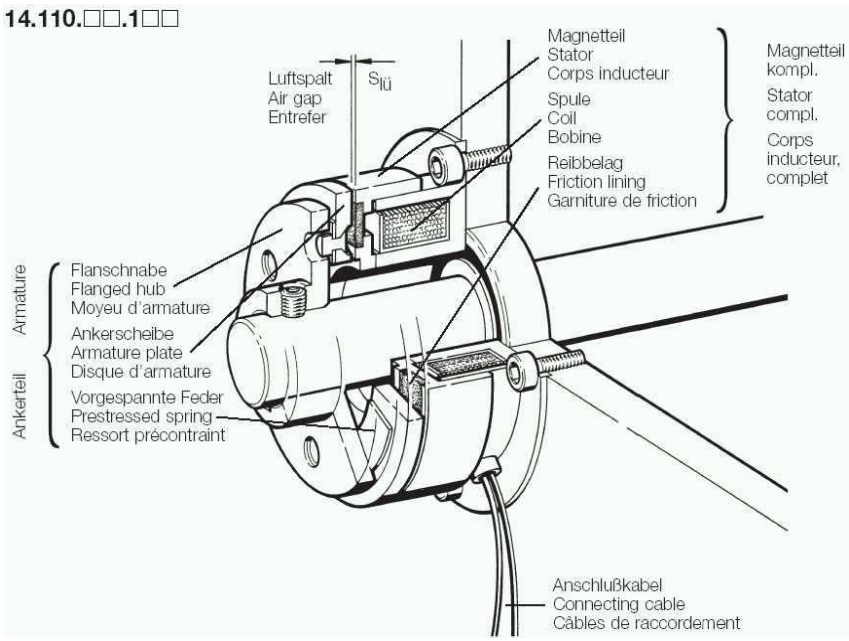
1. The stator is to be screwed to an even not convexed surface, centred internally or externally.

   0,03 mm concentricity of the stator to the bore of the armature is required.

2. Fix the armature on the shaft and set the operating airgap $S_{Lü}$ (see table). Check airgap using feeler gauge.

   The armature „1“ with flange hub is fastened using the setscrew. The armature plate of the armature „3“ is directly fitted to the part to be braked using the spring.

3. Connect the 2-pole connecting wires to d.c. voltage according to the specifications on the name plate of the stator.

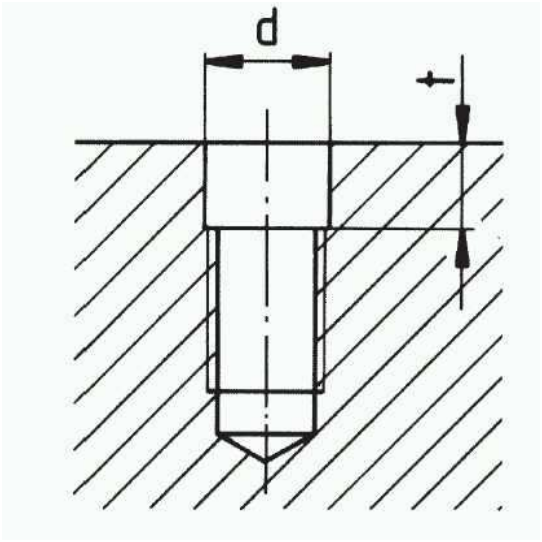


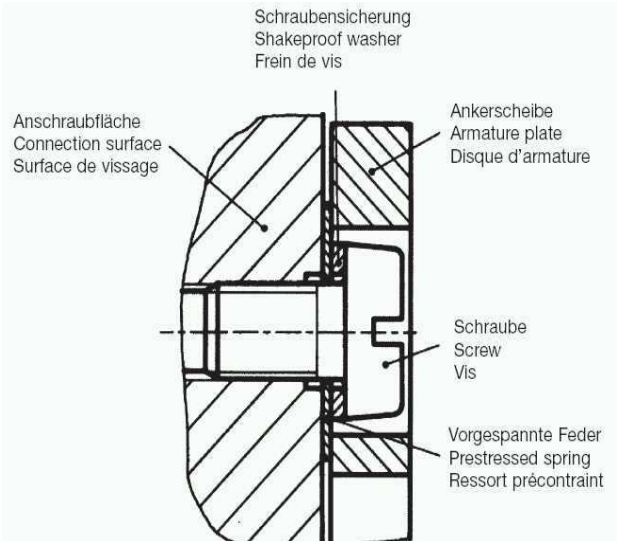
Note: **The friction surfaces must be kept completely free of any lubricant or grease. Cleaner are inadmissible !**

Screws, shakeproof washers and screw thread design to fix armature design 3 (using the springs of the armature plate) to the component that is to be braked.

Sizes	Screws		Schnorr-shakeproof washers	Ø d (mm)	t (mm)
01	M 2 x 5	DIN 84	Schnorr-shakeproof washer 2	2.1	0.5
02	M 2 x 5	DIN 84	Schnorr-shakeproof washer 2	2.1	0.5
03	M 2,5 x 6	DIN 84	Schnorr-shakeproof washer 2.6	2.6	0.5
04	M 3 x 9	DIN 84	Schnorr-shakeproof washer 3	3.1	0.8
05	M 3 x 8	DIN 84	Schnorr-shakeproof washer 3	3.1	0.8

Supplier:
Adolf Schnorr GmbH & Co. KG
P.O.Box 60 01 62 - D - 71050 Sindelfingen
Tel: ++49 (0) 7031 30 20 - Fax: ++49 (0) 7031 38 26 00





Airgap $S_{Lü}$ (mm)

Size	02	03	04	05
$S_{LÜ}$	0,1	0,15	0,15	0,2

Maintenance

The airgap $S_{Lü}$ should be checked at regular intervals. If it exceeds 2,5 times $S_{Lü}$ value, the airgap must be readjusted (see table). Slight scoring on the friction faces is quite normal and can be ignored. Do not reface the friction faces, otherwise the function of the brake may be affected. The brake can be readjusted several times. If the re-adjustment margin is fully used the complete brake needs to be replaced.