

Mounting Information Power Off Brakes (Permanent Magnet)

Brake Type PMB Function

- Ogura (PM) Brakes are classed as Power-Off devices and, as such, require the application of an electric current to disengage the braking action. The braking effect is created by a magnetic force generated by the built-in rare-earth permanent magnet material.
- When an electric current is applied, the electromagnetic coil counteracts the magnetic field of the permanent magnet material, cancelling the holding force of the brake and, in turn, the braking torque. [See figure 1].
- When the electrical supply is interrupted, the magnetic field generated by the coil collapses, the permanent magnet field again becomes prominent and the holding force generating the braking torque is re-established. [See figure 2].

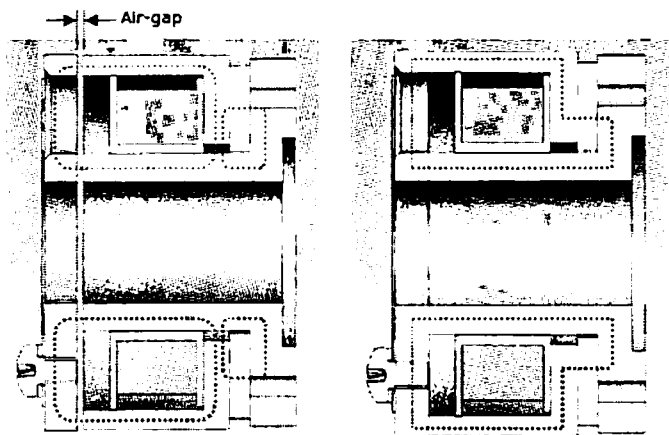


Figure 1

Figure 2

Brake Type PMB Flange Mounting (A) and Spigot Mounting (B)

1. Ensure all friction faces are clean and free from steel particles, oil and grease.
2. Mount the Brake Field square to the shaft, using OA1 , OA2 or OE4 to ensure concentricity.
3. For split-shaft applications, ensure the input shaft is within 0.05 T.I.R. of the output shaft.
4. Apply an electrical supply to the brake field during installation to aid setting of the air-gap.
5. If using a type C.L. Armature sub-assembly, ensure any hubs, pulleys etc. are counterbored to clear the screw or rivet heads of the armature sub-assembly.
6. Position the Armature Sub-assembly as required (use shims or spacers if necessary) and set-air-gap 'g'. Tighten the clamping screw if using a type C.C. Armature Sub-assembly.
7. Switch-off the electrical supply. The device should now be in the braked position as shown in figure 2.

General Notes

We recommend the use of Thread Locking Adhesive and shakeproof washers on all screws. Always re-new armature and friction face together after prolonged use. When ordering please use the correct code to ensure quick and accurate delivery.

The standard voltage is 24Vd.c. - but specials can be supplied.