



BRAKE DESCRIPTION

The Delphi ATDC series brake is an electromagnetic brake with negative operation, whose braking action is exercised in the absence of power supply. The brake insulation class is F. The brake lining is asbestos-free, as per most recent EEC Directives in terms of Workplace Hygiene and Safety. All brake assemblies are protected against corrosion by painting and/or heat galvanizing. The parts most subject to wear are treated in special atmospheres that provide considerable wear resistance to the parts. The standard supply voltage of the brake is 230V ±10% 50/60Hz on the AC of the brake power pack

BRAKE OPERATION

When the power supply is interrupted, the excitation coil ⑦ is no longer powered and therefore doesn't exert the magnetic force necessary to restrain the mobile armature ①, which, pushed by the pressure springs ②, compresses the brake disk ③ against the motor flange ④ on one side and the armature itself on the other, thereby creating a braking action.

ADJUSTMENT

Two different types of adjustment are possible

S air gap adjustment

For proper operation, the air gap S between electromagnet ⑦ and the mobile armature ① must be between the following indicated limits:

MOTOR TYPE	S AIR GAP (mm)
63-71	0.40-0.50
80-160	0.50-0.60

The adjustment is made by using the threaded bushes ⑩, using a thickness gauge to make sure that the wished air gap is reached.

Braking torque adjustment

The braking torque can be increased by tightening the adjuster screws ⑨. The setting has already been made by motive at the max value, and therefore we suggest to not to intervene on it.

- ① Mobile armature
 - ② springs
 - ③ Brake disc
 - ④ Driver
 - ⑤ Motor shaft
 - ⑥ Motor flange
 - ⑦ Electromagnet
 - ⑧ Release lever
 - ⑨ Adjuster screws
 - ⑩ Threaded bush
- S** Air gap