Best suited for high-frequency operation—— A rank above others

- Compact, lightweight and low-noise TA series reducer
- Easy-to-use long-life clutch/brake types

Features

COMPACT
The clutch/brake is directly connected between the motor and the reducer as an assembly and requires only a small installation space. In addition, the time for installation and centering is reduced compared to combining units.

BALANCE
The torque of the clutch/brake is optimally adjusted in consideration of the motor capacity and load conditions. The clutch/brake and reducer operate in balance offering greater durability.

RADE UP
Because of the unique design of the clutch/brake and the reducer housing construction, heat is quickly dissipated, which enables frequent on-off switching. Because the TA series has a reputation for low noise and durability, high reliability is ensured. A wide range of types are available (0.1 kW-3.7 kW, reduction ratios of 1/5-1/200), providing a perfect match for any application.

AINTEINANCE EASY
The clutch/brake includes an automatic gap control system that eliminates the need for performing troublesome gap adjustment as the friction plate wears, ensuring reliable operation for a long time. Since the reducer uses an enclosed grease bath and changing grease is often not necessary, maintenance is not necessary for a long time.

Structure

![Diagram of GMTA040-24L25CB]

1. Motor
2. L case
3. M bracket
4. Housing
5. Motor flange
6. Clutch
7. Brake
8. Motor shaft
9. Input shaft with pinion
10. 1st stage wheel
11. 2nd shaft with pinion
12. Output shaft with wheel
## Operating principle

### 1. Stopping

- **Motor:** ON or OFF
- **Clutch:** OFF
- **Brake:** OFF

### 2. Clutching

- **Motor:** ON
- **Clutch:** ON
- **Brake:** OFF

(Output shaft rotating)

(For three-step reduction, the direction of rotation is reversed.)

### 3. Braking

- **Motor:** ON
- **Clutch:** OFF
- **Brake:** ON

(Output shaft stopped (braked))