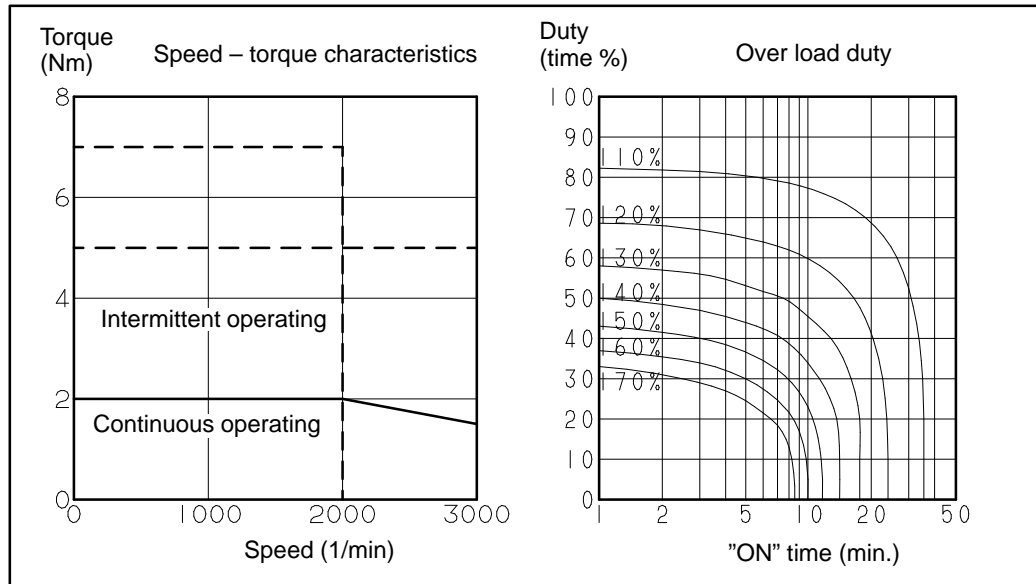


Model $\alpha 2/2000$

Specification : A06B-0372-B□□□

Model $\alpha 2/3000$

Specification : A06B-0373-B□□□

**Data sheet**

| Parameter | Symbol | Value | | Unit |
|-------------------------------------|--------|---------|---------|-------------------------|
| Rating output speed | Nmax | 2000 | 3000 | min ⁻¹ |
| Rated torque at stall (*) | Ts | 2.0 | 2.0 | Nm kgfcm |
| Rotor inertia | Jm | 0.00060 | 0.00060 | kgm ² |
| | | 0.0061 | 0.0061 | kgfcms ² |
| Continuous RMS current at stall (*) | Is | 2.2 | 2.9 | A (rms) |
| Torque constant (*) | Kt | 0.90 | 0.67 | Nm/A (rms) |
| | | 9.2 | 6.9 | kgfcm/A (rms) |
| Back EMF constant (*) | Ke | 31.3 | 23.5 | V/1000min ⁻¹ |
| | Kv | 0.30 | 0.22 | Vsec/rad |
| Armature resistance (*) | Ra | 2.44 | 1.38 | Ω |
| Mechanical time constant (*) | tm | 0.005 | 0.005 | s |
| Thermal time constant | tt | 20 | 20 | min |
| Static friction | Tf | 0.15 | 0.15 | Nm |
| | | 1.5 | 1.5 | kgfcm |
| Maximum allowable current | Im | 24 | 32 | A (peak) |
| Maximum theoretical torque | Tm | 16 | 16 | Nm |
| | | 160 | 160 | kgfcm |
| Maximum theoretical acceleration | | 26000 | 26000 | rad/s ² |
| Weight | | 4.3 | 4.3 | kg |

(*) The values are the standard values at 20°C and the tolerance is $\pm 10\%$.

The speed–torque characteristics vary depending on the type of software, parameter setting, and input voltage of the digital servo motor. (The above figures show average values.) These values may be changed without prior notice.

Fig. 3.3 (d) Models α1 and α2

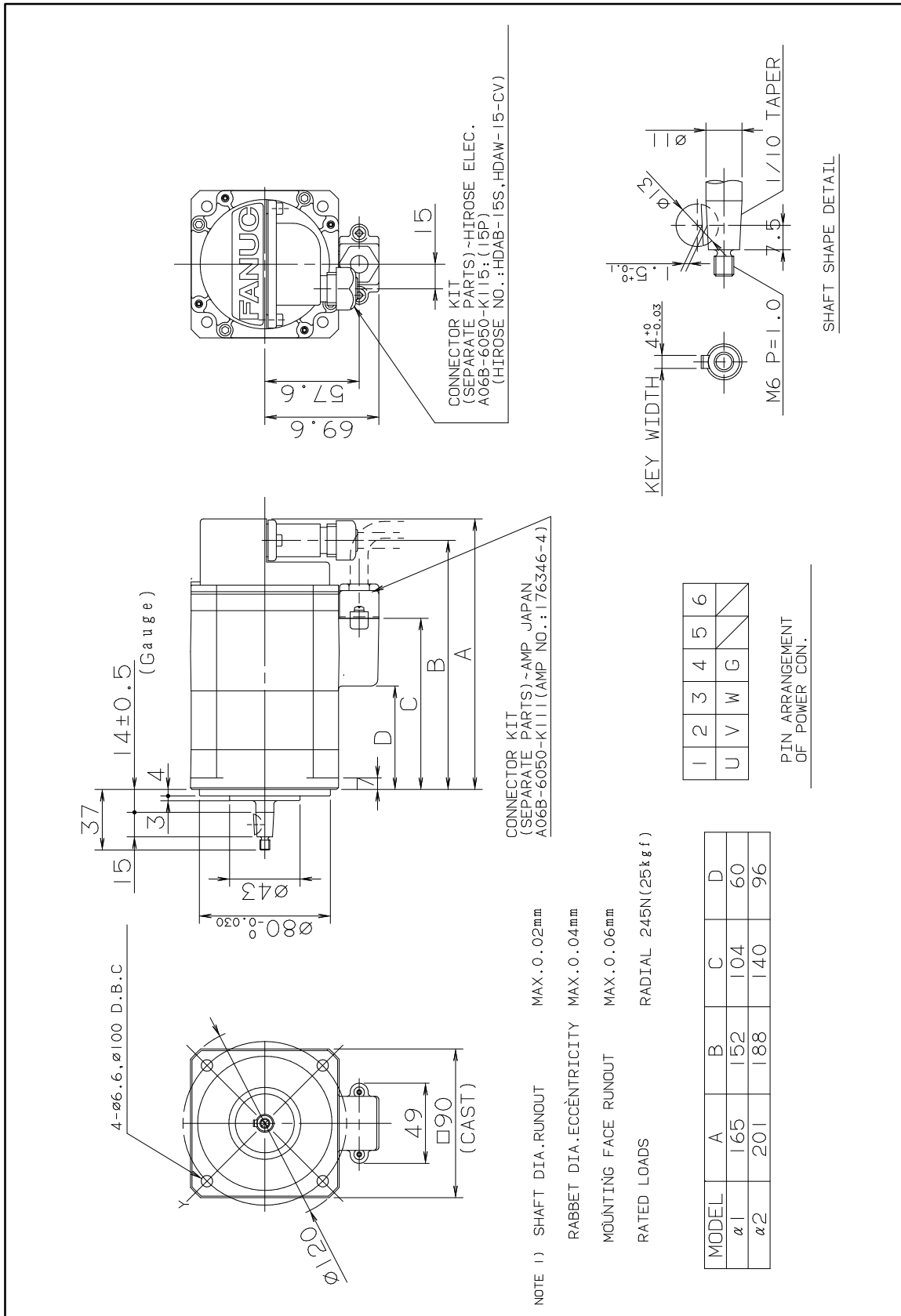


Fig. 3.3 (f) Models α1 and α2 (shaft option)

