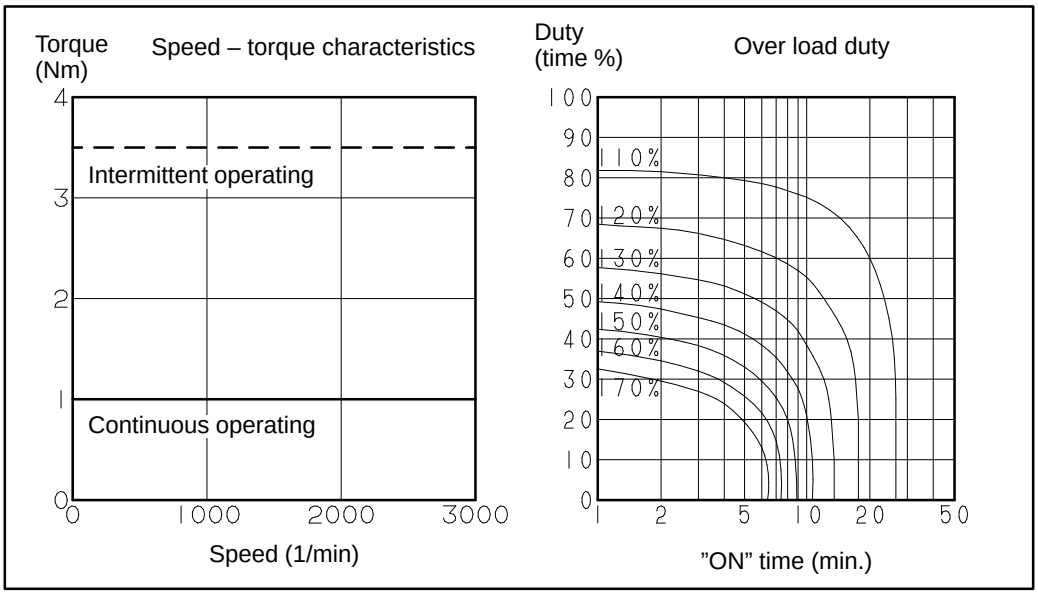
Model α1/3000 Specification : A06B–0371–B□□□



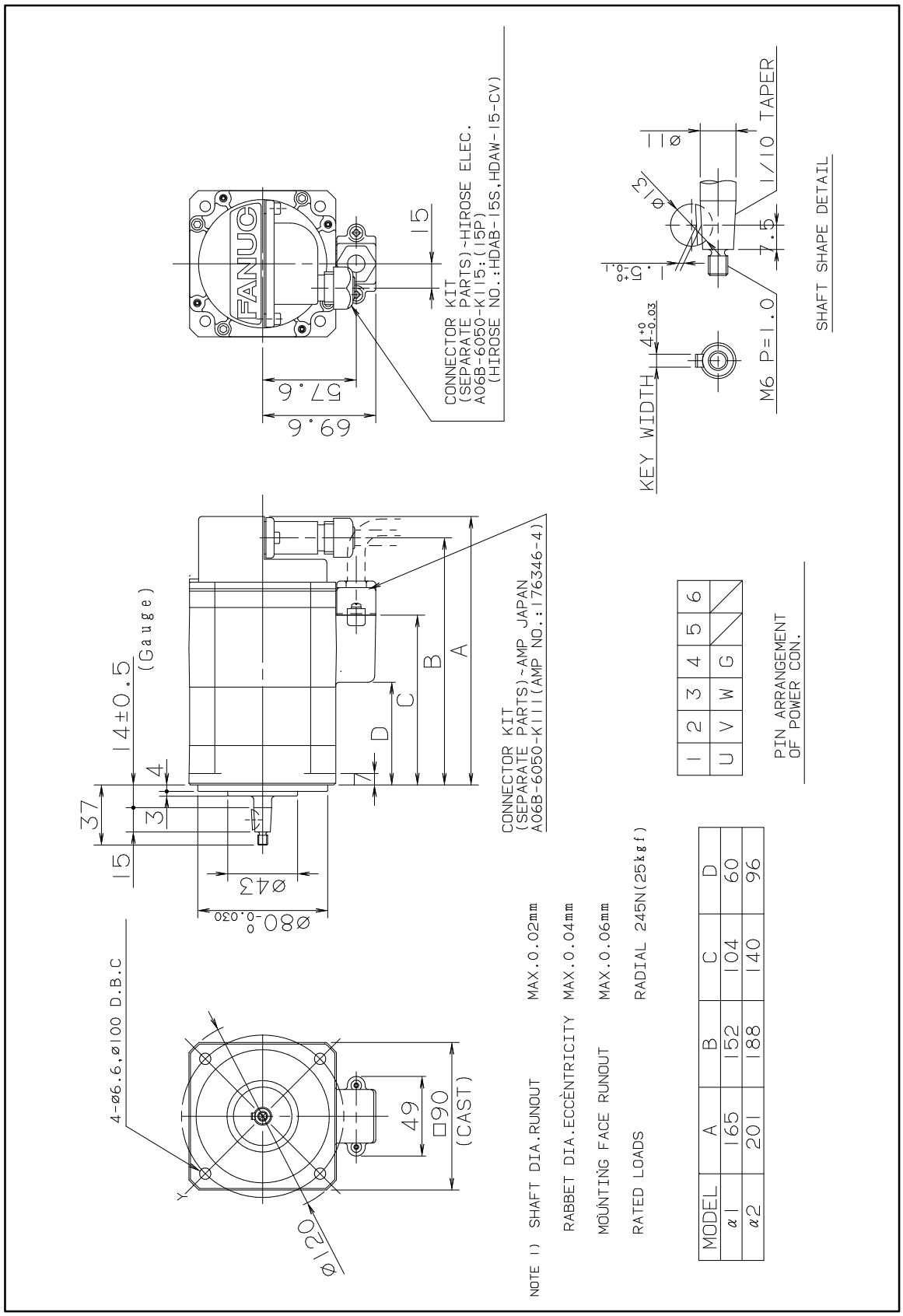
Data sheet

Parameter	Symbol	Value			Unit
Rating output speed	Nmax	3000			min^{-1}
Rated torque at stall (*)	Ts	1. 0 10			Nm kgfcm
Rotor inertia	Jm	0. 00036 0. 0037			kgm^2 $kgfcms^2$
Continuous RMS current at stall (*)	Is	2. 2			A (rms)
Torque constant (*)	Kt	0. 44 4. 5			Nm/A (rms) kgfcm/A (rms)
Back EMF constant (*) (*)	Ke Kv	15. 5 0. 15			$V/1000min^{-1}$ Vsec/rad
Armature resistance (*)	Ra	1. 73			Ω
Mechanical time constant (*)	tm	0. 010			s
Thermal time constant	tt	15			min
Static friction	Tf	0. 10 1			Nm kgfcm
Maximum allowable current	Im	24			A (peak)
Maximum theoretical torque	Tm	8 80			Nm kgfcm
Maximum theoretical acceleration		22000			rad/s^2
Weight		2. 8			kg

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

The speed–torque characteristics very 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



MODEL	A	B	C	D
α1	165	152	104	60
α2	201	188	140	96

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