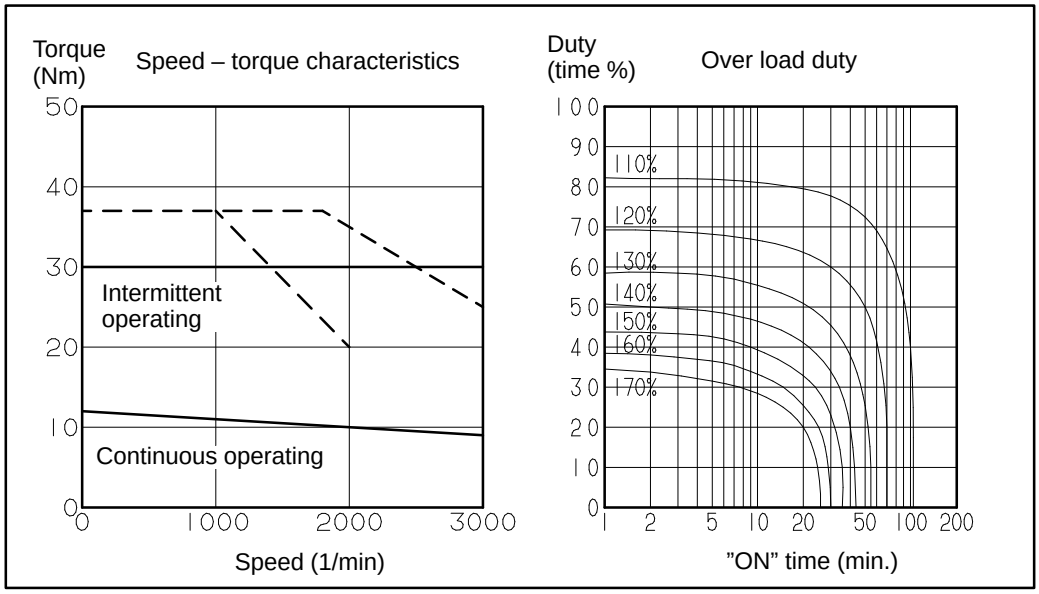
Model α12/2000 Specification : A06B–0142–B□□□

Model α12/3000 Specification : A06B–0143–B□□□



Data sheet

Parameter	Symbol	Value			Unit
Rating output speed	Nmax	2000	3000		min $^{-1}$
Rated torque at stall (*)	Ts	12 122	12 122		Nm kgfcm
Rotor inertia	Jm	0. 0062 0. 064	0. 0062 0. 064		kgm^2 kgfcms^2
Continuous RMS current at stall (*)	Is	8. 8	15. 5		A (rms)
Torque constant (*)	Kt	1. 36 13. 8	0. 77 7. 9		Nm/A (rms) kgfcm/A (rms)
Back EMF constant (*) (*)	Ke Kv	47 0. 45	27 0. 26		V/1000min $^{-1}$ Vsec/rad
Armature resistance (*)	Ra	0. 49	0. 17		Ω
Mechanical time constant (*)	tm	0. 005	0. 005		s
Thermal time constant	tt	60	60		min
Static friction	Tf	0. 8 8	0. 8 8		Nm kgfcm
Maximum allowable current	Im	70	120		A (peak)
Maximum theoretical torque	Tm	66 670	66 670		Nm kgfcm
Maximum theoretical acceleration		11000	11000		rad/s^2
Weight		18	18		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 (j)* Models α12, α22, α30, and α40

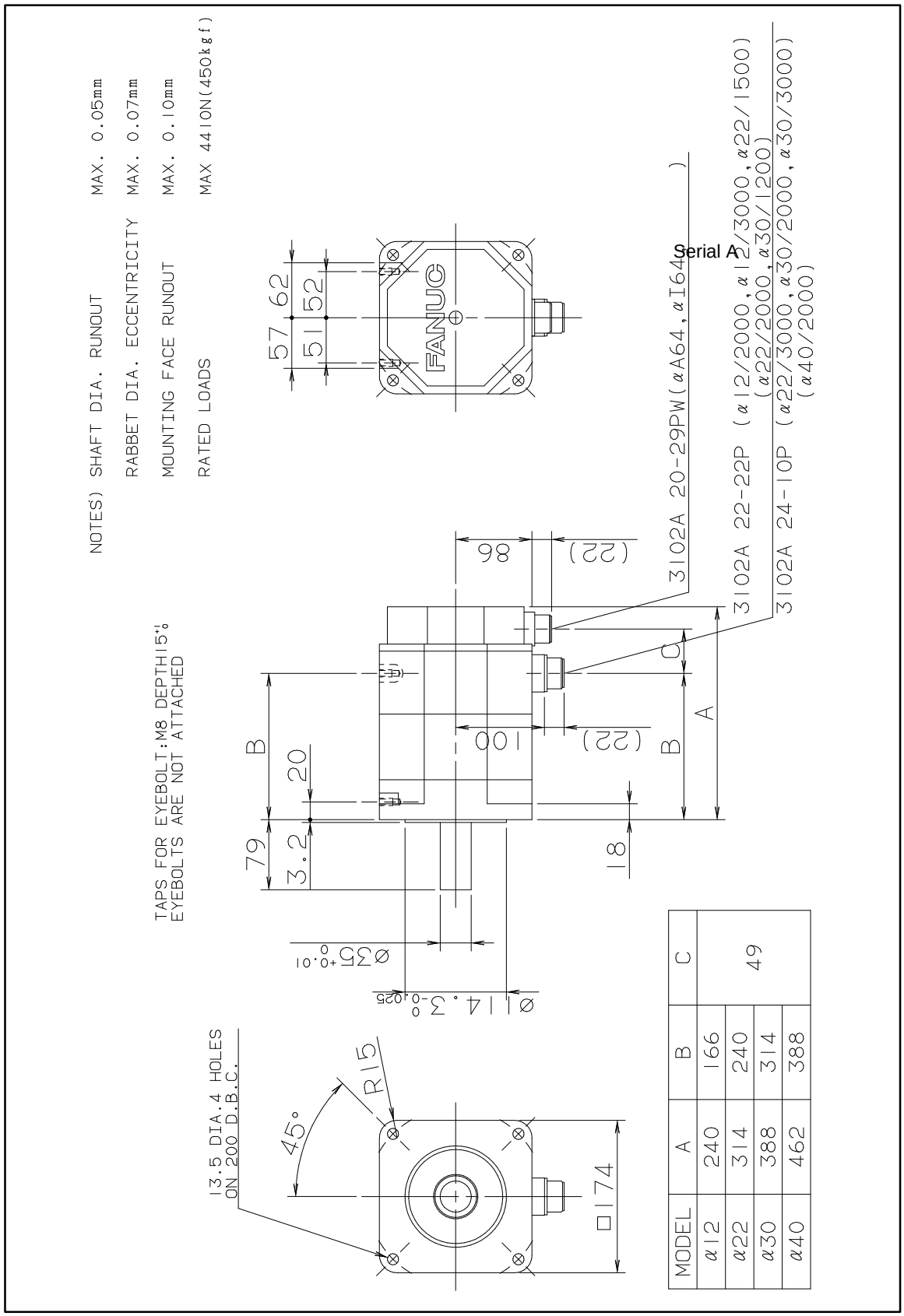
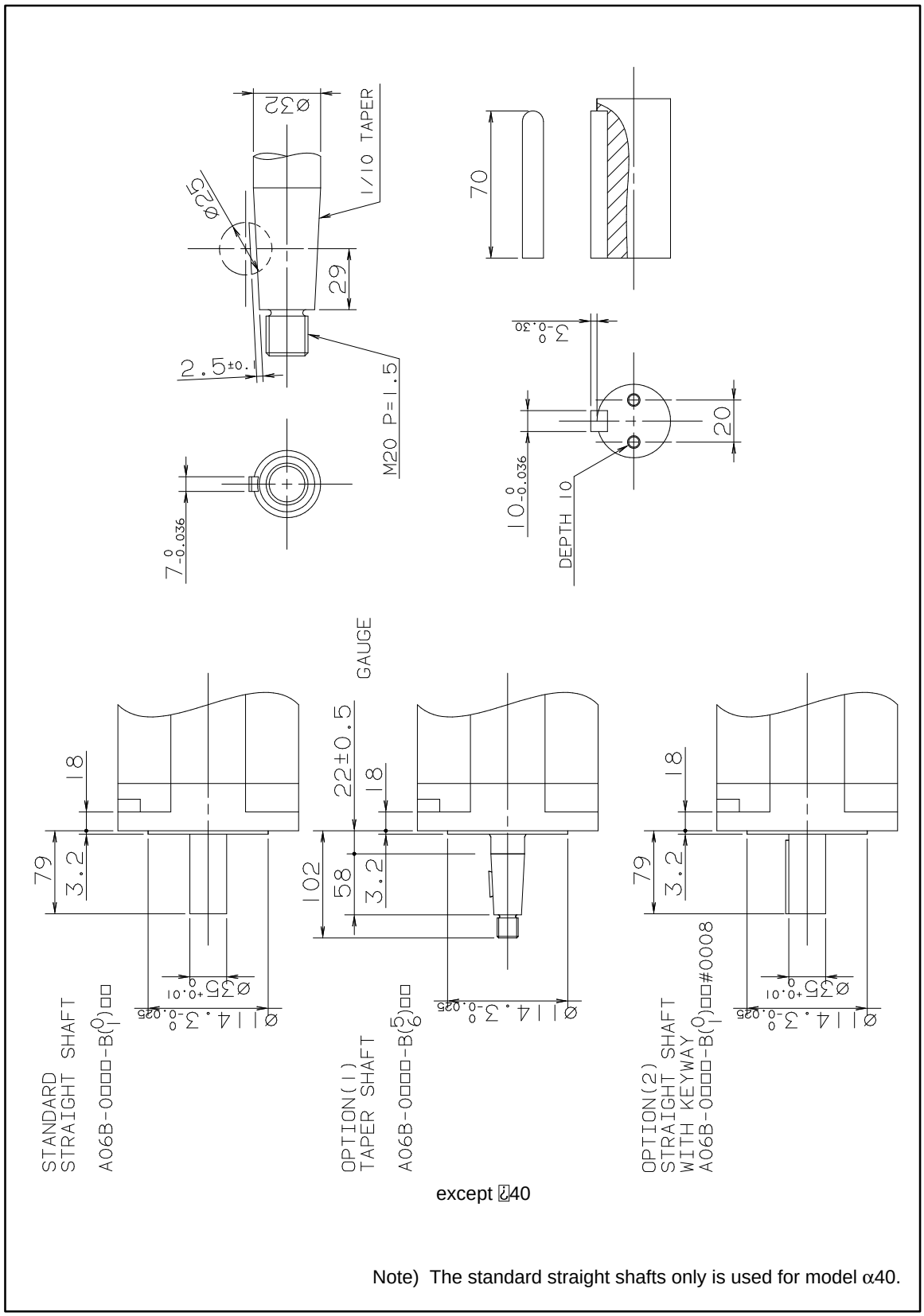


Fig. *3.3 (l)* Models α12, α22, α30, and α40 (shaft option)



Note) The standard straight shafts only is used for model α40.