

Data sheet

Parameter	Symbol	Value		Unit
Maximum speed	Nmax	3000		min ⁻¹
Rated torque at stall(*)	Ts	2.9		Nm
		30		kgfcm
Rotor inertia	Jm	0.0020		kgm ²
		0.020		kgfcmS ²
Continuous RMS current at stall	Is	4.6		A(rms)
Torque constant(*)	Kt	0.64		Nm/A(rms)
		6.5		kgfcm/A(rms)
Back EMF constant (RMS voltage per phase)(*)	Ke	22		V/1000min ⁻¹
		0.21		Vsec/rad
Armature resistance(*)	Ra	0.645		Ω
Mechanical time constant(*)	tm	0.009		s
Thermal time constant	tt	45		min
Static friction	Tf	0.3		Nm
		3		kgfcm
Maximum allowable current	Im	53		A(peak)
Max. torque	Tm	26.5		Nm
		270		kgfcm
Max. acceleration		13500		rad/S ²
Maximum winding temperature rise	θ m	125		°C
Weight		10		kg

Note) The values are the standard values at 20°C and the tolerance is ±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.

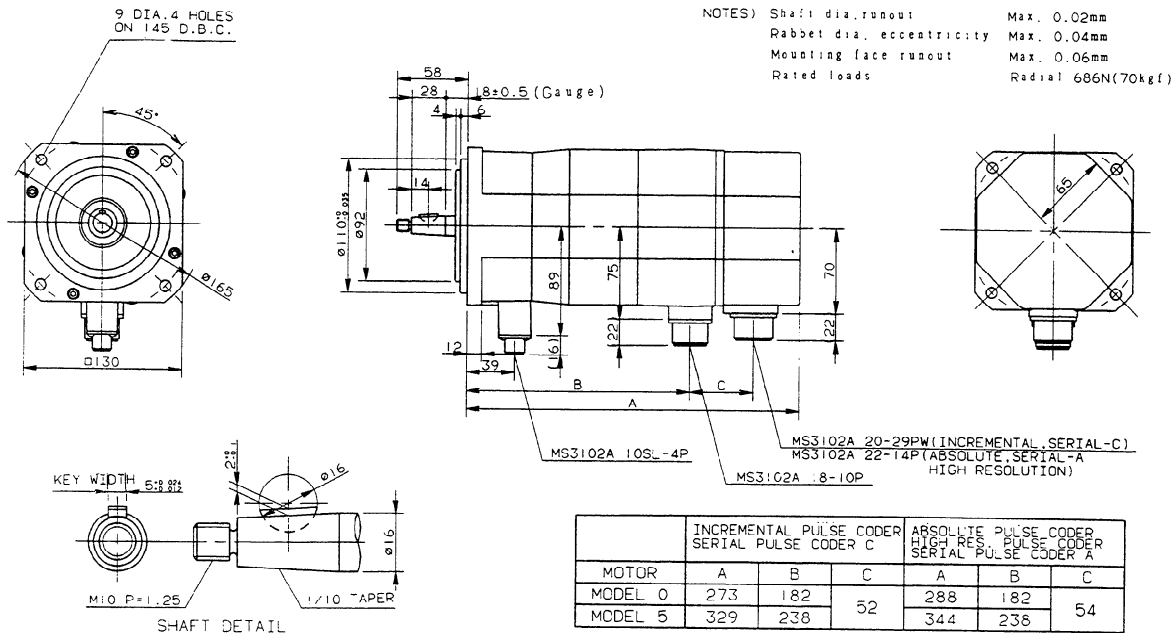


Fig. 3.3(m) Models 0S, 5S, and 5S/3000 (with the brake)

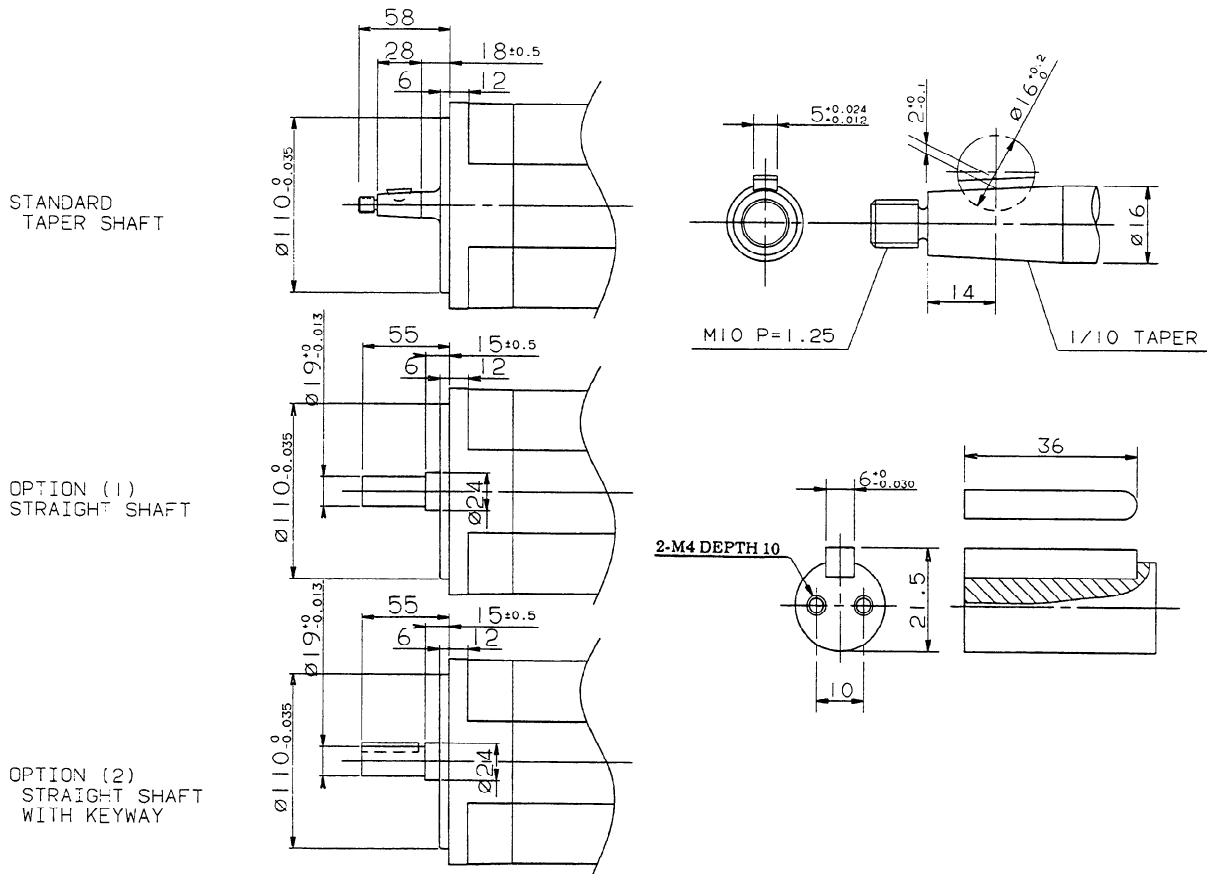


Fig. 3.3(n) Shaft option (models 0S, 5S, and 5S/3000)