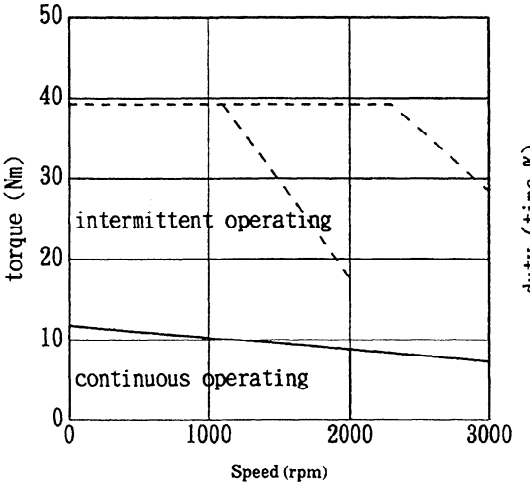
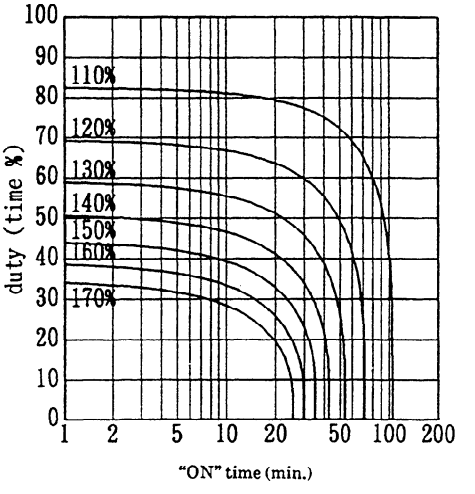
Model 10S (A06B-0315-B□□□)
Model 10S/3000 (A06B-0317-B□□□)

speed-torque characteristics (digital)



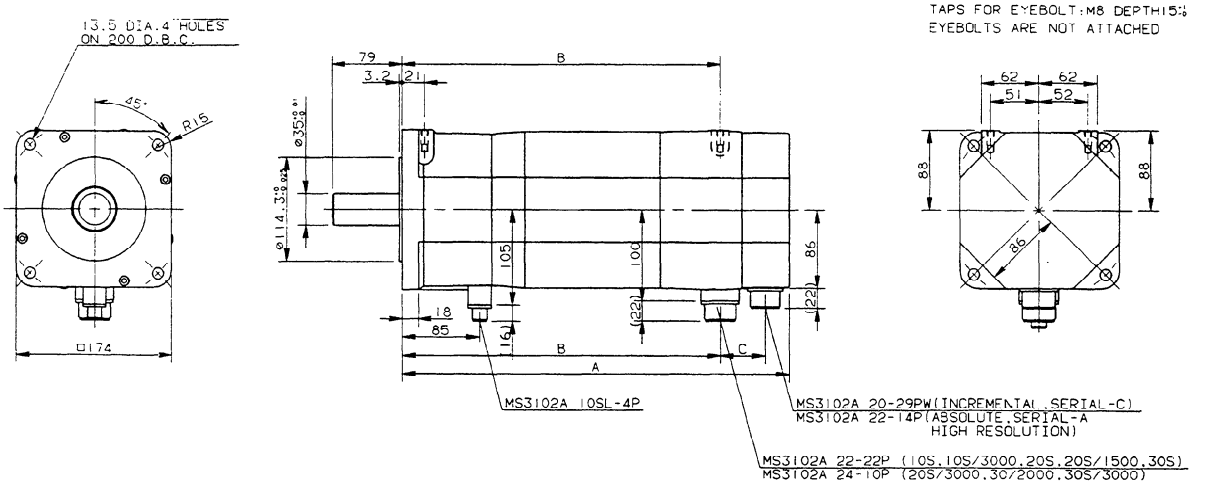
over load duty



Data sheet

Parameter	Symbol	Value			Unit
Maximum speed	Nmax	2000	3000		min^{-1}
Rated torque at stall(*)	Ts	11.8 120	11.8 120		Nm kgfcm
Rotor inertia	Jm	0.010 0.10	0.010 0.10		kgm^2 $kgfcmS^2$
Continuous RMS current at stall	Is	7.6	15.3		A(rms)
Torque constant(*)	Kt	1.54 15.7	0.77 7.9		Nm/A(rms) kgfcm/A(rms)
Back EMF constant (RMS voltage per phase)(*)	Ke Kv	54 0.51	27 0.26		$V/1000min^{-1}$ Vsec/rad
Armature resistance(*)	Ra	0.718	0.180		Ω
Mechanical time constant(*)	tm	0.009	0.009		s
Thermal time constant	tt	60	60		min
Static friction	Tf	0.8 8	0.8 8		Nm kgfcm
Maximum allowable current	Im	61	121		A(peak)
Max. torque	Tm	78 800	78 800		Nm kgfcm
Max. acceleration		8000	8000		rad/S^2
Maximum winding temperature rise	θ m	125	125		°C
Weight		23	23		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.



NOTES) Shaft dia.runout: Max. 0.05mm
Rabbet dia. eccentricity: Max. 0.07mm
Mounting face runout: Max. 0.10mm
Rated loads: Radial 4410N(450kgf)

	INCREMENTAL PULSE CODER SERIAL PULSE CODER C			ABSOLUTE PULSE CODER HIGH RES. PULSE CODER SERIAL PULSE CODER A		
MOTOR	A	B	C	A	B	C
MODEL 10	350	275	49	365	275	54
MODEL 20	425	350		440	350	
MODEL 30	500	425		515	425	

Fig. 3.3(s) Models 10S, 10S/3000, 20S, 20S/1500, 20S/3000, 30S, 30/2000, and 30S/3000 (with the brake)

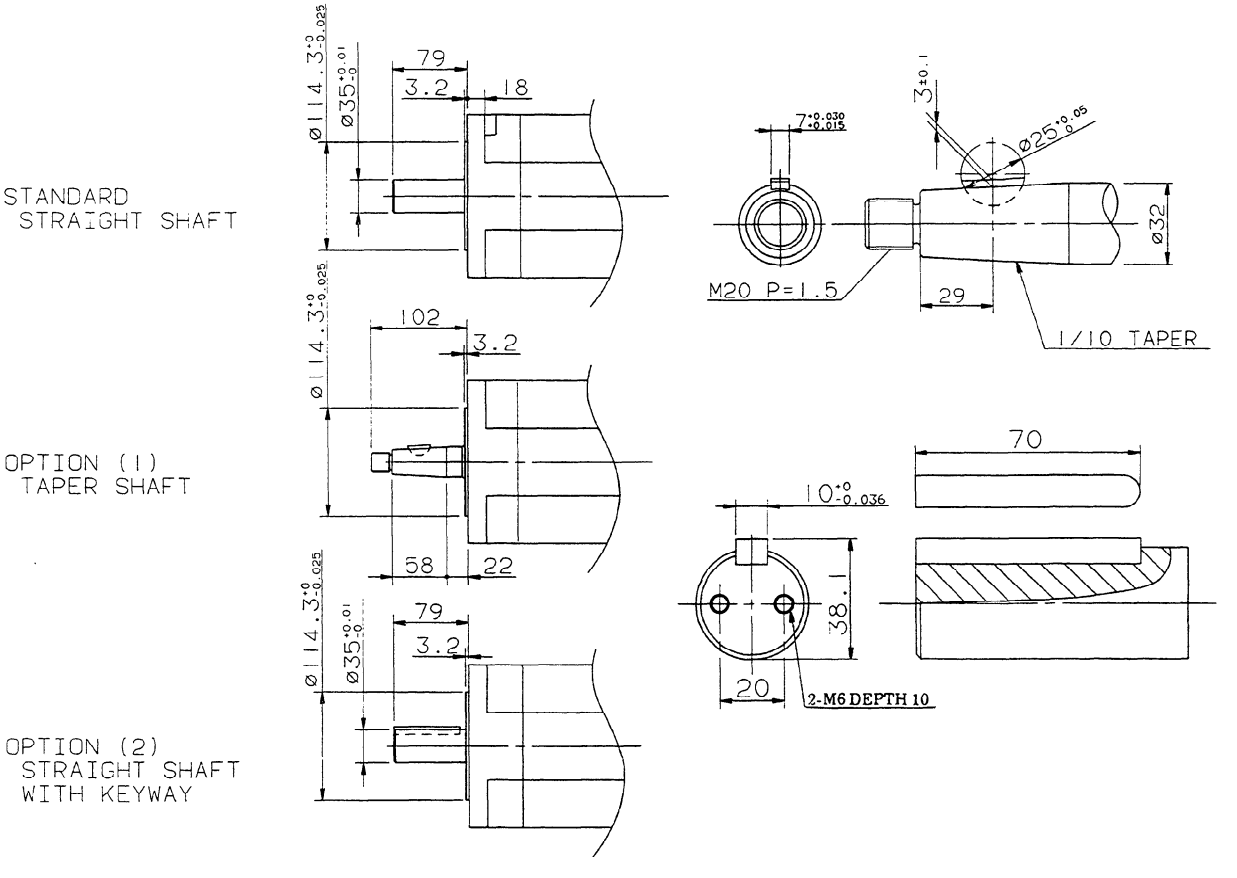


Fig. 3.3(t) Shaft option (models 10S, 10S/3000, 20S, 20S/1500, 20S/3000, 30S, 30/2000, 30S/3000)