



Servo Motor's Characteristics 1

Servo Motor Model (APM-□□□□□)		SAR3A	SAR5A	SA01A	SB01A	SB02A	SB04A
Flange Size (□)		□40			□60		
Rated Power	[kW]	0.03	0.05	0.1	0.1	0.2	0.4
Rated Torque	[N · m]	0.095	0.159	0.318	0.318	0.637	1.274
	[kgf · cm]	0.97	1.62	3.25	3.25	6.50	13.0
Maximum Instantaneous Torque	[N · m]	0.286	0.477	0.955	0.955	1.912	3.822
	[kgf · cm]	2.92	4.87	9.74	9.74	19.5	39.0
Rated rpm	[r/min]	3,000					
Maximum rpm	[r/min]	5,000					
Moment of Inertia	[kg · m ² × 10 ⁻⁴]	0.011	0.021	0.045	0.114	0.182	0.321
	[gf · cm · s ²]	0.0112	0.0214	0.0459	0.116	0.186	0.327
Allowable Load Inertia Ratio		30 times of motor inertia			20 times of motor inertia		
Rated Power Rate	[kW/S]	5.57	10.52	23.80	8.92	22.26	50.65
Speed, Position Transducer	Standard	Incremental 5V Line Drive 2,048P/R			2,500P/R		
	Option	Absolute, Manchester communication					
Specification & Features	Protective Method	Totally enclosed, Non ventilated IP55(Excluding the shaft-through section and connectors.)					
	Rated Time	Continuous					
	Ambient Temp.	Operating Temp : 0~50[°C] · Storage Temp : -20~80[°C]					
	Ambient Humidity	Lower than 90[%](avoid condensation)					
	Atmosphere	Avoid direct sunlight, no corrosive gas, inflammable gas, oil mist, or dust					
	E/V	Elevation/Vibration 49[m/s ²](5G)					
Weight	[kg]	0.3	0.4	0.52	0.84	1.11	1.63

Rotation Speed-Torque's Characteristics

