

Servo-amp Specifications

Servo-amp model			MR-J2S-			10A	20A	40A	60A	70A	100A	200A	350A	500A (Note 5)	700A (Note 5)	10A1	20A1	40A1	
Servo-amp	Power-supply	Voltage/frequency (Note 1)	3-phase 200 to 230V AC 50/60Hz or 1-phase 230V AC 50/60Hz (Note 2)							3-phase 200 to 230V AC 50/60Hz (Note 2)					1-phase 100 to 120V AC 50/60Hz				
		Permissible voltage fluctuation	3-phase 170 to 253V AC 50/60Hz or 1-phase 207 to 253V AC 50/60Hz							3-phase 170 to 253V AC 50/60Hz					1-phase 85 to 127V AC 50/60Hz				
		Permissible frequency fluctuation	±5% max.																
	Control system		Sine-wave PWM control/current control system																
	Dynamic brake		Built-in (Note 3)																
	Speed frequency response		550Hz or more																
	Safety features		Overcurrent shutdown, regeneration overvoltage shutdown, overload shutdown (electronic thermal), servomotor overheat protection, encoder fault protection, regeneration fault protection, undervoltage/sudden power outage protection, overspeed protection, excess error protection																
	Position control mode	Maximum input pulse frequency	500 kpps (when using differential receiver), 200 kpps (when using open collector)																
		Positioning feedback pulse	Resolution per encoder/servomotor rotation : 131072 p/rev																
		Command pulse multiple	Electronic gear A/B multiple, A: 1 to 65535 or 131072, B: 1 to 65535 1/50<A/B<500																
		Positioning complete width setting	0 to ±10V DC (command pulse unit)																
		Excess error	±10 rotations																
		Torque limit	Set by parameters or external analog input (0 to ±10V DC, max. torque)																
	Speed control mode	Speed control range	Analog speed command 1:2000, internal speed command 1:5000																
		Analog speed command input	0 to ±10V DC/rated speed (Note 4)																
		Speed fluctuation rate	±0.01% max. (load fluctuation 0 to 100%) 0% (power fluctuation ±10%) ±0.2% max. (ambient temperature 25°C ±10°C (77°F±50°F)), when using analog speed command																
		Torque limit	Set by parameters or external analog input (0 to ±10V DC, max. torque)																
	Torque control mode	Analog torque command input	0 to ±8V DC max. torque (input impedance 10 to 12kΩ)																
		Speed limit	Set by parameters or external analog input (0 to ±10V DC, rated speed)																
	Structure		Self-cooling, open (IP00)							Fan cooling, open (IP00)					Self-cooling, open (IP00)				
	Environ-ment	Ambient temperature	0 to 55°C (32 to 131°F) (non freezing), storage: -20 to 65°C (-4 to 149°F) (non freezing)																
		Ambient humidity	90% RH max. (non condensing), storage: 90% RH max. (non condensing)																
		Atmosphere	Inside control panel; no corrosive gas, inflammable gas, oil mist, or dust																
		Elevation	1000 meters or less above sea level																
		Oscillation	5.9 m/s² max.																
	Weight	kg (lb)	0.7 (1.5)	0.7 (1.5)	1.1 (2.4)	1.1 (2.4)	1.7 (3.7)	1.7 (3.7)	2.0 (4.4)	2.0 (4.4)	(Note 5)			0.7 (1.5)	0.7 (1.5)	1.1 (2.4)			

- Note: 1. Rated output capacity and rated speed of the servomotor used in combination with the servo-amp are as indicated when using the power-supply voltage and frequency listed.
The output capacity and speed cannot be guaranteed when the power-supply voltage is less than specified.
2. When combined with a servomotor, torque characteristics are those in the case of 3-phase 200~230VAC or 1-phase 230VAC.
3. For products without a dynamic brake (MR-J2S-□A-ED and MR-J2S-□A1-ED), special compliance is possible.
4. It is possible to change the rotation speed in 10V using parameter No.25.
5. Consult Mitsubishi for availability.