

Ratings and Specifications

Junma SERVOPACKS

Servo Amplifier Model SJDE-□-OY		O1APA	O2APA	O4APA	O8APA
Max. applicable servo motor capacity	W	100	200	400	750
Continuous output current	A _{rms}	0.84	1.1	2.0	3.7
Instantaneous max. output current	A _{rms}	2.5	3.3	6.0	11.1
Input power supply (for main circuit and control circuit)	Voltage	Single-phase 100 to 115 VAC, +10 to -15% ; Single-phase 200 to 230 VAC, +10 to -15%			
	Frequency	50/60Hz ± 5%			
	Voltage frequency capacity at rated output	kVA	0.40	0.75	1.2
Power loss at rated output	W	14	16	24	35
Input control method	Capacitor-input type, single-phase full-wave rectification with resistance to prevent inrush current				
Output control method	PWM control, sine wave power driven system				
Feedback	Incremental encoder				
Allowable load inertia*1	kg•m ²	0.6 x 10 ⁻⁴	3 x 10 ⁻⁴	5 x 10 ⁻⁴	10 x 10 ⁻⁴
I/O signals	Input signal for reference (designated pulse type and pulse resolution with PULSE switch)	Pulse type	Select one of the following settings: 1. CCW + CW pulse train 2. Sign + pulse train 3. CCW + CW pulse train (negative logic) 4. Sign + pulse train (negative logic)		
		Pulse resolution	Select one of the following settings: 1. 1000 pulses/rev (open collector/line driver) 75kpps max. 2. 2500 pulses/rev (open collector/line driver) 187.5kpps max. 3. 5000 pulses/rev (line driver) 375kpps max. 4. 10000 pulses/rev (line driver) 750kpps max.		
	Clear input signal	Clears the positioning error at the rising edge of the pulse			
	Servo ON input signal	Turns the servo motor on or off			
	Alarm output signal	OFF if an alarm occurs			
	Brake output signal	External signal to control brakes. Turn ON to release the brake.			
	Position completed output signal	ON if the current position is equal to the reference position ±10 pulses			
Origin output signal	ON if the motor is at the origin (width: 1/500 rev)				
Built-in functions	Dynamic brake (DB)	Operated at main power OFF, servo alarm, servo OFF (OFF after motor stops; ON if the motor power is off)			
	Regenerative processing	Optional (if the regenerative energy is too large, install a regenerative unit)			
	Protection*2	Speed errors, overload, encoder errors, voltage errors, overcurrents, disablement of the built-in cooling fan, system errors			
	Display	Five LED indicators (PWR, REF, AL1, AL2, AL3)			
Reference filter	Select one of eight levels with FIL switch				
Cooling method	Forced cooling (built-in fan)				
Operating temperature	0°C to +55°C				
Operating humidity	90% RH or less (no condensation)				
Storage temperature	-20°C to +70°C				
Storage humidity	90% RH or less (no condensation)				
Installation site	Free of corrosive gases; Free of dust and iron powder; Clean and dry				
Altitude	1000m or below				
Vibration resistance	4.9m/s ²				
Shock resistance	19.6m/s ²				
Operating conditions	Installation category (overvoltage category): II; Pollution degree: 2 Protection class: IP1X (EN50178)				

*1 Be sure to use the motor within the allowable load moment of inertia. The motor will become unstable if the load moment of inertia exceeds the allowable value.

*2 The ground protection circuit is designed for ground fault inside the motor windings while the motor is running. Therefore, it may not protect the system under the following cases:

- A low-resistance ground fault occurs in the main circuit cable or in the connector of the cable for the servo motor.
- The power supply is turned on during a ground fault.

