

SANMOTION R

AC SERVO SYSTEMS

AC Servo Amplifier Built-in Positioning Function model

Lineup

Serial interface RS-485

I/O interface Input 28 points / output 17 points



Simple System

- The maximum 254 position points can be pre-registered as the specified positioning point data information.
- The amplifier allows to set 4 types of servo gain patterns, speed, acceleration / deceleration and S-curve acceleration/deceleration into each point data.
- After moving to the first point, it jumps to the next specified point. Point command can be repeatedly executed for specified times.

Point No.	Position	JP
1	0	3
2	1000	
3	-1000	

After executing to point 1, it jumps to point 3.

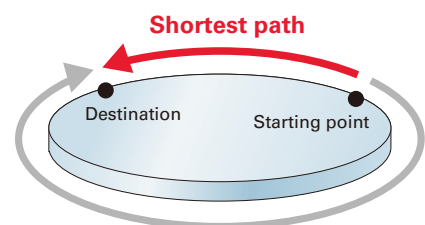
Point No.	Position	Repetition
1	0	
2	1000	2
3	-1000	

Point command be repeatedly executed for specified times.

- One positioning can be terminated when hitting any object while moving.
- Since positioning control unit is unnecessary, it saves wiring and system space.

Efficient Rotational Transfer

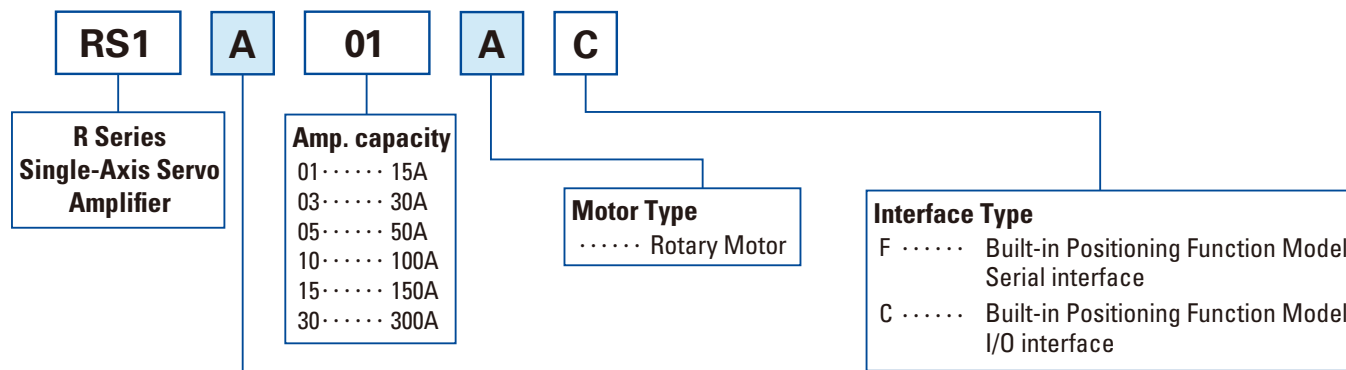
- Either infinite coordinates (where object unlimitedly keeps moving), or finite coordinates (where object moves to a constant point) are selectable. Within infinite coordinates, the object may choose shortest path to the target point.



Serial Interface Model Added to Lineup

- Only 3 wirings needed for this serial interface model, where to 50 wiring for I/O interface.
- PC is directly connected as a host device. (USB↔RS-485 conversion I/F is necessary.)
- The data and parameter of the positioning points can be changed from the host device.
- This model can easily construct the system with PLC with RS-485 interface and Sanyodenki's controller "SANMOTION C".

Servo Amplifier Model Number Nomenclature



Power Input, Internal Registration Setting

Model	Input Voltage	Internal Registration Resistor	Amp. capacity
L	AC200V	W	15A,30A (option.setting)
A		W/O	15A,30A,300A
A		W	50A,100A,150A
L	AC100V	W/O	50A,100A,150A (option.setting)
N		W	15A,30A(option.setting)
E		W/O	15A,30A

*Please set the parameters for your selected motor accordingly before using.

Specifications

Amplifier General Specifications

Input Power	Amplifier Capacity
AC200 to 230V+10, -15%, 50/60Hz±3Hz	15A, 30A, 50A, 100A, 150A, 300A
AC100 to 115V+10, -15%, 50/60Hz±3Hz	15A, 30A

Serial interface	RS-485
I/O interface	Input 28 points / output 17 points

Positioning function Specifications

Control Axis Count	1 Axis
Register Point Count	Configurable up to 254 points (P000 to P253)
Maximum range of Commands	From -2,147,483,648 to +2,147,483,647
Command Unit	Either mm or pulse is acceptable
Point Data Setup	Numerical input via PC, or setup by teaching
Travel Point Number Setup	Parallel 8 bits (binary code)
Current Limit	0 to 510% (at 100% rating), but less than instantaneous maximum stall current
Software Limit	Exists
Travel Mode	Zero Return, Manual (JOG, 1Step), and Point-specified Travel
Zone Signal	Maximum of 8 zones

Amplifier Dimensions

Amplifier Capacity	15A	30A	50A	100A	150A	300A
Height (mm)	168	168	168	235	235	235
Wide (mm)	45	50	90	100	130	220
Depth (mm)	130	130	130	235	235	235