

NEW PRODUCTS

High Performance AC Servo Systems

# SANMOTION R

## AC SERVO SYSTEMS

### 3E Model

*Evolved*

High-performance servo amplifier series that achieved 3E's.  
The series lineup expanded with the new 400 VAC models.

*Eco-efficient*

*Easy to use*

## 400 VAC

Amplifier capacity 25, 50, 100 A

Applications: semiconductor manufacturing equipment,  
machine tools, general industrial machinery



# SANYO DENKI

## Eco-efficient

Power consumption and standby power have been reduced by a maximum of 15% and 29%, respectively.\*

\* When compared with our current model RS1C02A.

## Holding brake\* equipped as standard

This servo amplifier will be equipped as standard with holding brake. This eliminates the need for designing a new control circuit and saves wiring, thus achieving cost reduction.

\* Holding brake holds a load or motor in position when power is cut off, preventing a load from falling or an accident from happening.

### Servo Amplifier Specifications

Control function	Position control, Speed control, Torque control (switched with parameters)
Control system	IGBT, sinusoidal PWM control
Control circuit power supply	24 VDC $\pm$ 10%
Main circuit power supply	3-Phase 380 to 480 VAC +10, -15% 50/60 Hz $\pm$ 3 Hz
Compatible motors	SANMOTION R servo motors with output 0.55 to 5.5 kW
Properties / functions	Vibration suppression control, model-following control High gain control Real-time switching between trajectory control and positioning control Micro-vibration control of motors at standstill Adaptive notch filter Power consumption monitoring function
Support for startup and servo tuning	Virtual motor operation function to simulate operation of motor and amplifier Navigation function on servo tuning Drive recorder function for recording motor and amplifier operating status

### Lineup

Model no.	Amplifier capacity	Compatible motor rated output	Safety function
RS3□02□□□□0	25 A	0.55 to 2.0 kW	No
RS3□05□□□□0	50 A	1.0 to 3.5 kW	
RS3□10□□□□0	100 A	3.5 to 5.5 kW	
RS3□02□□□□2	25 A	0.55 to 2.0 kW	Yes (Safe Torque Off function)
RS3□05□□□□2	50 A	1.0 to 3.5 kW	
RS3□10□□□□2	100 A	3.5 to 5.5 kW	

What replaces □ above varies depending on the specification. Contact us for details.

200 VAC models are also available. For detailed information, please refer to our website and the SANMOTION R 3E Model catalog.

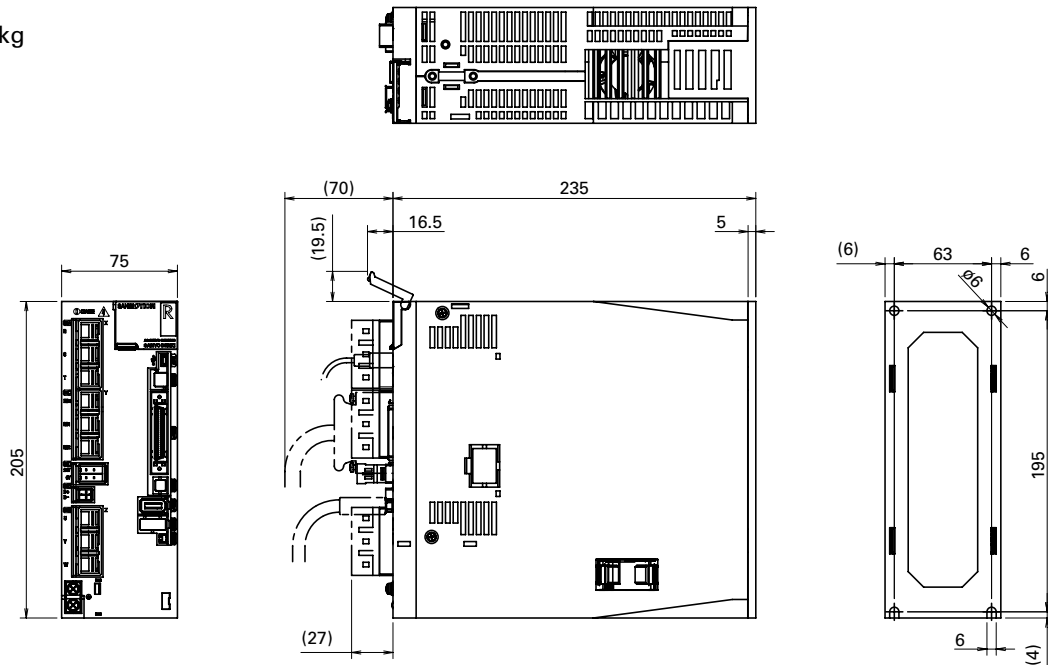
### Compliance with Safety Standards

Servo amplifier model	Safety standards		
Common to all models	North American safety standards (UL, cUL)	UL 61800-5-1	
	European directives	Low-voltage directive	EN 61800-5-1
		EMC directive	EN 55011 G1 ClassA, EN 61800-3, EN 61326-3-1
	KC (Korea Certification) mark	KN 61000-6-2, KN 61000-6-4	
Models equipped with the safe torque off (STO) function	Functional Safety	IEC 61508 SIL3, IEC 62061 SIL CL3 ISO 13849-1 Cat.3 PL=e	

■ Servo amplifier dimensions  
(Unit: mm)

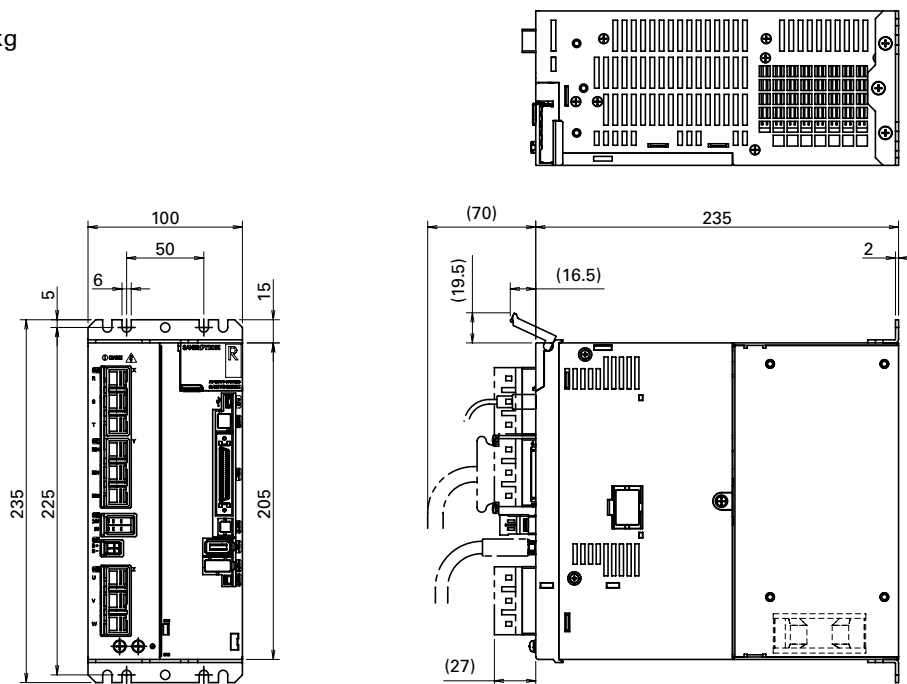
**25 A**

Mass: 2.5 kg



**50 A**

Mass: 4.7 kg

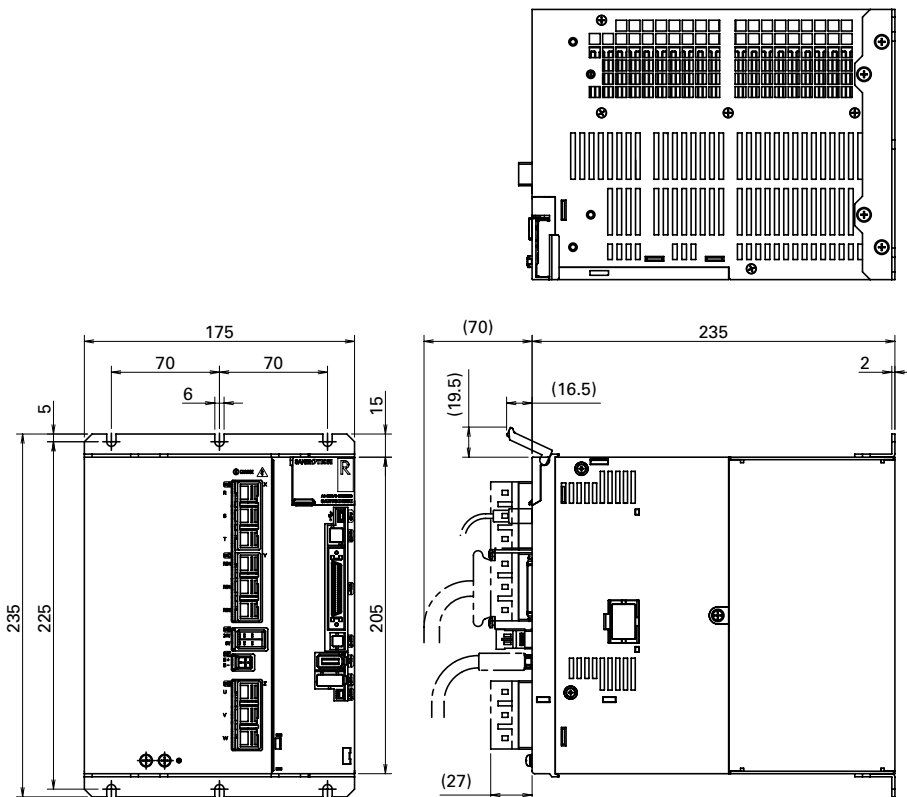


## ■ Servo amplifier dimensions

(Unit: mm)

### 100 A

Mass: 8.5 kg



## ■ Precautions For Adoption

### ⚠ Cautions

Failure to follow the precautions on the right may cause moderate injury and property damage, or in some circumstances, could lead to a serious accident. Always follow all listed precautions.

### ⚠ Cautions

- Read the accompanying Instruction Manual carefully prior to using the product.
- If applying to medical devices and other equipment affecting people's lives, please contact us beforehand and take appropriate safety measures.
- If applying to equipment that can have significant effects on society and the general public, please contact us beforehand.
- Do not use this product in an environment where vibration is present, such as in a moving vehicle or shipping vessel.
- Do not perform any retrofitting, re-engineering, or modification to this equipment.
- The products presented in this catalog are meant to be used for general industrial applications. If using for special applications related to aviation and space, nuclear power, electric power, submarine repeaters, etc., please contact us beforehand.

\*For any question or inquiry regarding the above, contact our Sales Department.

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