

**SANMOTION**  
AC SERVO SYSTEMS **RS3**

**230**  
VAC

**SIL3**  
SAFE TORQUE  
OFF (STO)

**EtherCAT**

**3rd**  
GENERATION!

## 230 VAC SERVOAMPLIFIERS

### RS3 SERIES AC SERVOAMPLIFIERS - EtherCAT INTERFACE & STO

**FIVE DIGIT DISPLAY:** It allows to monitor amplifier and EtherCAT Network.

**PC CONNECTOR:** The amplifier can be set and monitored by means of Personal Computer USB interface.

**POWER CONNECTOR:** 230VAC, single-phase or three-phase (configurable by user). Power sections kept separated for logic/signal and power. Built-in protection circuits against overload and input overvoltage.

**Internal regenerative resistor.** External regenerative resistor (optional)

**EtherCAT INTERFACE CONNECTOR:** RJ45 - CAT5e.

**I/O CONNECTOR:** 7 inputs and 2 outputs.

**MOTOR POWER CONNECTOR**

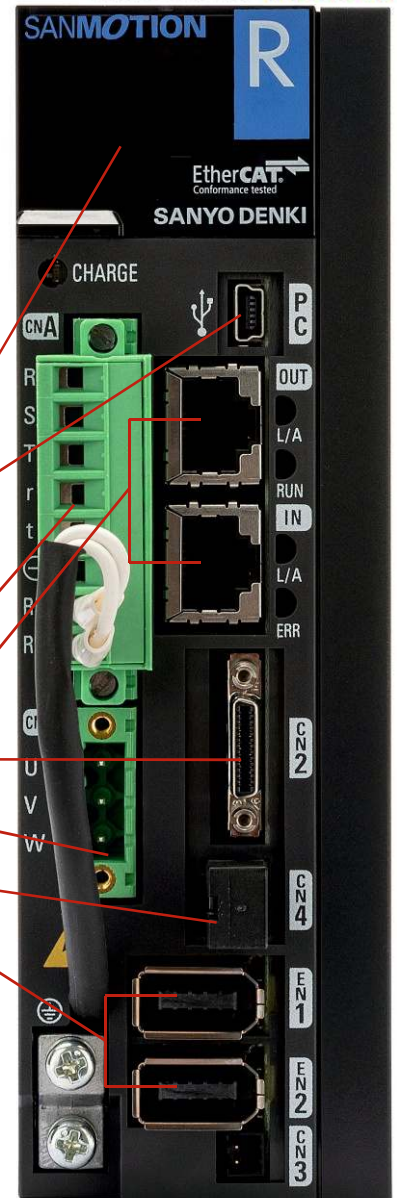
**SAFE TORQUE OFF - SIL3 CONNECTOR**



**SECOND ENCODER CONNECTOR FOR EXTERNAL LINEAR SCALE TO AVOID BACKLASH**

### MAIN FEATURES OF THE 3rd GENERATION

- Mode of Operation: Homing Mode, Profile Velocity Mode, Profile Position Mode, Profile Torque Mode, Cycle Sync Position Mode, Cycle Sync Velocity Mode, Cycle Sync Torque Mode.
- Touch Probe Function.
- Speed frequency response of 2.2 kHz [3.3 times that of previous RS1 model!]
- Safe Torque Off (STO) function - SIL3/IEC61508. Performance Level - PL = e/ISO13849-1
- RS3A03A2HA4W00P covers 100W, 200W, 400W, 750W, 1000W, 1500W motors



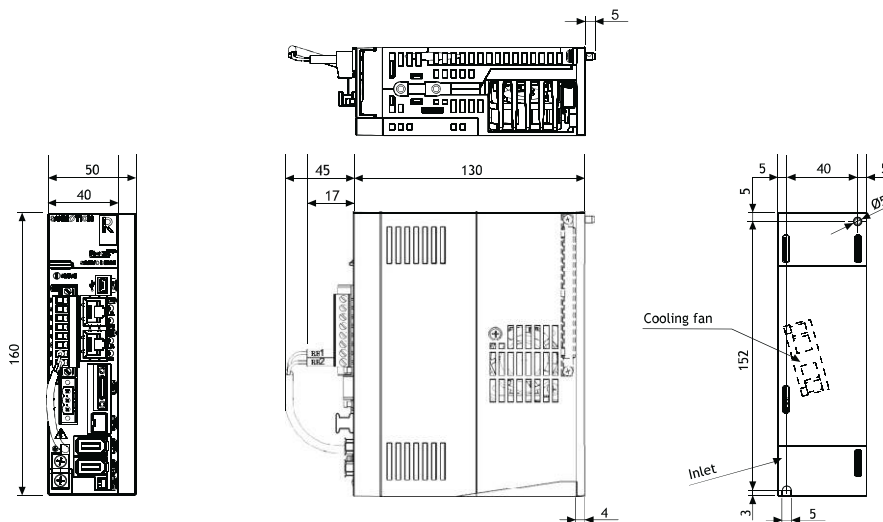
Dimensions:  
(50x160x130)  
Model RS3A03A2HA4W00



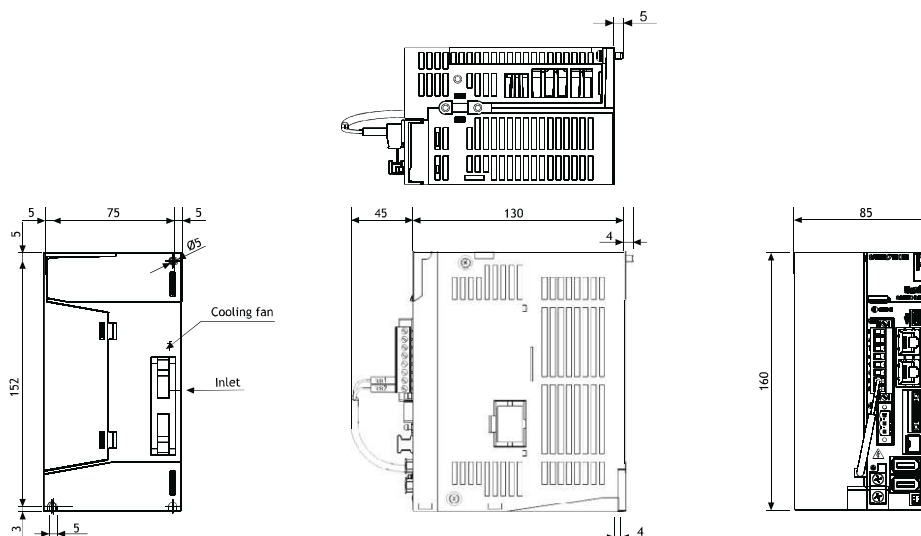
| TECHNICAL DATA       | EtherCAT Control  |                |                |
|----------------------|---|----------------|----------------|
|                      | MODEL   | RS3A03A2HA4W00 | RS3A05A2HA4W00 |
| MAX CURRENT          | 30 Amp  | 50 Amp         | 100 Amp        |
| MOTOR OUTPUT STAGE   | IGBT, PWM control, sinusoidal current   |                |                |
| POWER SUPPLY VOLTAGE | Single-phase or three-phase (configurable by the user)<br>200 VAC or 230 VAC (+10%, -15%) 50/60 Hz (± 3 Hz) |                |                |
| LOGIC SUPPLY VOLTAGE | Single-phase from 200 VAC to 230 VAC<br>(+10%, -15%) 50/60 Hz (± 3 Hz)                                      |                |                |
| DIMENSIONS (mm)      | 50x160x130  | 85x160x130     | 100x235x220    |
| MASS (kg)            | 0.9   | 1.65           | 4.2            |

**“RS3A” SERIES AC SERVOAMPLIFIERS:**  
EtherCAT VERSION OUTLINE DRAWINGS

RS3A03A2HA4W00



RS3A05A2HA4W00



RS3A10A2HA4W00

