

SDV3 Series Servo System General Purpose





Company Profile

Savch Electric Co., Ltd was set up in Quanzhou, Fujian province in 2001 and established a research and development center in Shanghai. It is one of the first few companies to develop and produce motor drives in China. In 2005, it became China's top ten inverter brands. The company relies on a strong R & D team and world-class power electronics production and quality control system (OEM for top international brand) to provide customers with high-performance servo drives, inverters, computer controllers and other industrial control products.

The company focuses on the frontier technology fields of "industrial intelligence, energy saving, green energy", and adheres to the core goal of "creating value for customers", and establishes a technical R&D team that highly conforms to customer industry characteristics and highly integrated mechatronics and provide more efficient and resource-efficient system solutions for various industries customers. For the pass years, the company has established a global equal and close cooperation agent system, and customer service system with user satisfaction as an indicator, widely used in ceramics, packaging, textile, dyeing and finishing, engineering upgrading, lifting, road, CNC machine tools, glass, mining, petroleum, shipbuilding, military and even farming and animal husbandry and other equipment fields.



The SDV3 series is a cost-effective servo system (motor & drive), which can be widely used in a large industry, such as laser marking machine joint robot, linear mechanical hands, wood machinery, glass machinery, injection molding machinery, welding and cutting equipment, ceramic equipment, textile equipment, testing equipment, cable equipment, lithium battery equipment, electronic manufacturing equipment, milling machines, grinding machines, CNC lathes, food production lines, packaging production line, engraving and milling machine, engraving machine, high light machine, around line machine, warp knitting machine, labeling machine, veneer machines etc.

High Performance

- Response frequency up to 1.2kHz
- Support 17 bit/20 bit encoder
- Low cogging torque
- 3 times overload ability

Intelligent

- Identification of load inertia
- Real-time automatic gain adjustment
- Automatic/Manual notch filter
- Automatic/Manual vibration suppression control

Practical

- Highly flexible script function
- Input/output signal assigned
- Internal position programming mode
- Interrupt position control
- Support CANopen, EtherCAT to realize multi-axis high response synchronization control
- Friction torque compensation
- Gain switch
- Torque limit change
- Motor and drive miniaturization

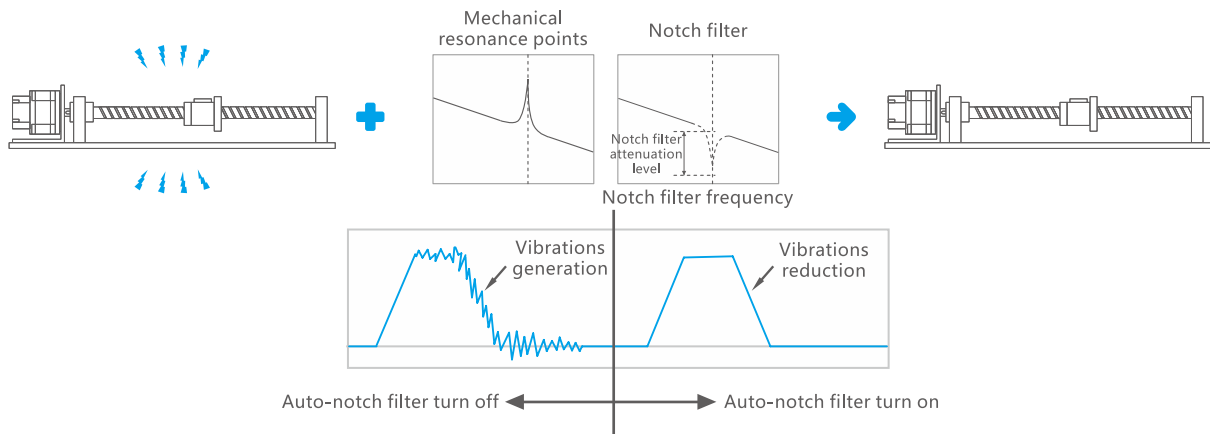


Safety
Instructions

- This contents of catalog is only for selecting products models and types , when using a product, read the users' manual beforehand to use the product correctly.
- Products introduced in this catalog haven't been designed or manufactured for such applications in a system or equipment that will affect human bodies or lives clients, who want to use the products introduced in this catalog for special systems or device such as for military, aerospace and medical use, and traffic control are requested to consult SAVCH's Sales Center.
- Clients are requested to prepare safety measures when they apply the products introduced in this catalog to such systems or facilities that will affect human lives or cause severe damage to property if the products become faulty.

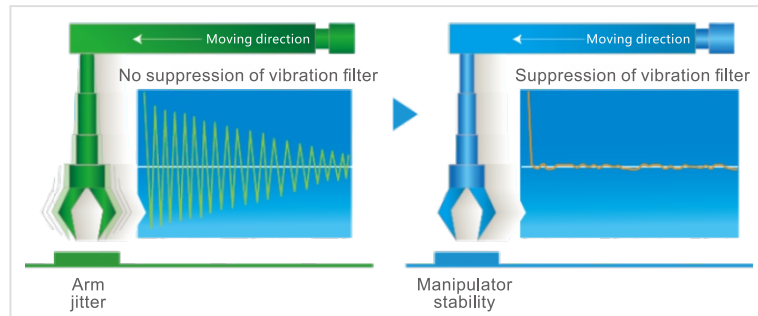
Notch Filter (Auto-Notch Filter)

- When the mechanical resonance is detected, the notch filter will be automatically set.
- When the automatic notch filter is opened, it can carry out detection operation, so it can also deal with the time variation of the resonance frequency.



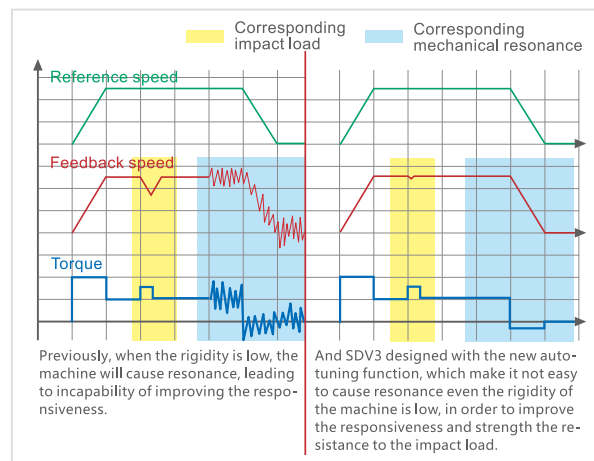
Mechanical Vibration Suppression

- The standard is equipped with the newly designed vibration suppression control function, which can maximize the suppression of the vibration of machinery.
- It can solve the problem of vibration of the low rigidity machine in the front of the robot arm, and realize the stable operation of the machine.



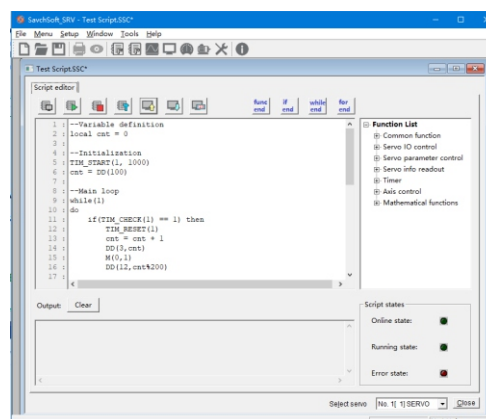
New Auto-Tuning Function

- Newly designed auto-tuning function greatly improves the SDV3 auto-adaptive performance. Even the machine is with low rigidity, it can also carry on the most appropriate adjustment.



Script Function

- The built-in script function can replace the PLC and other upper computers to realize the logic programming function, which greatly improves the flexibility of the servo application.
- The script is programmed by the supporting host computer software, and the instructions are simple and easy to use.

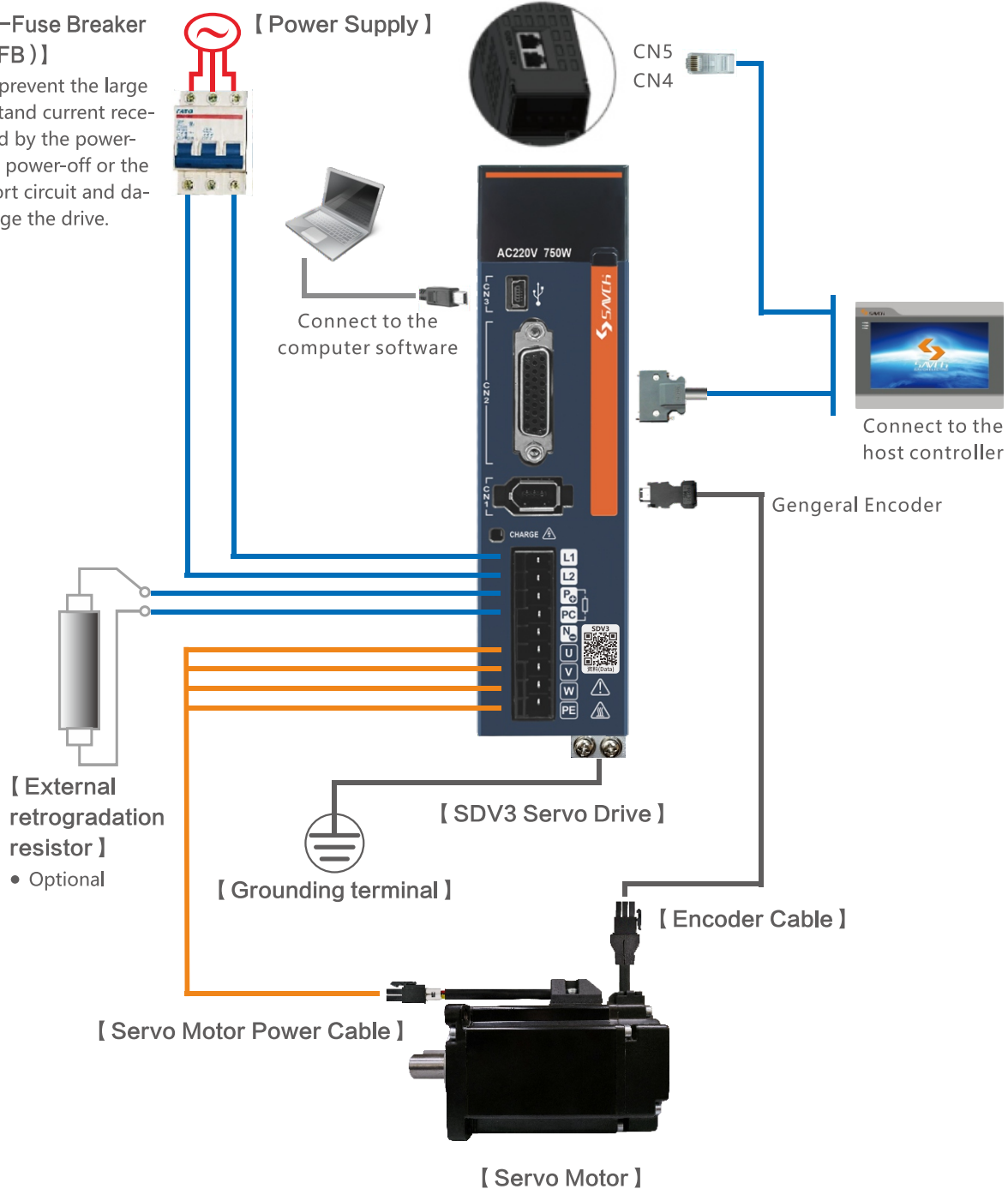


System Structure Diagram

• SDV3-2S0.4G~2S0.75G

【 No-Fuse Breaker (NFB) 】

- To prevent the large inrush current received by the power-on, power-off or the short circuit and damage the drive.



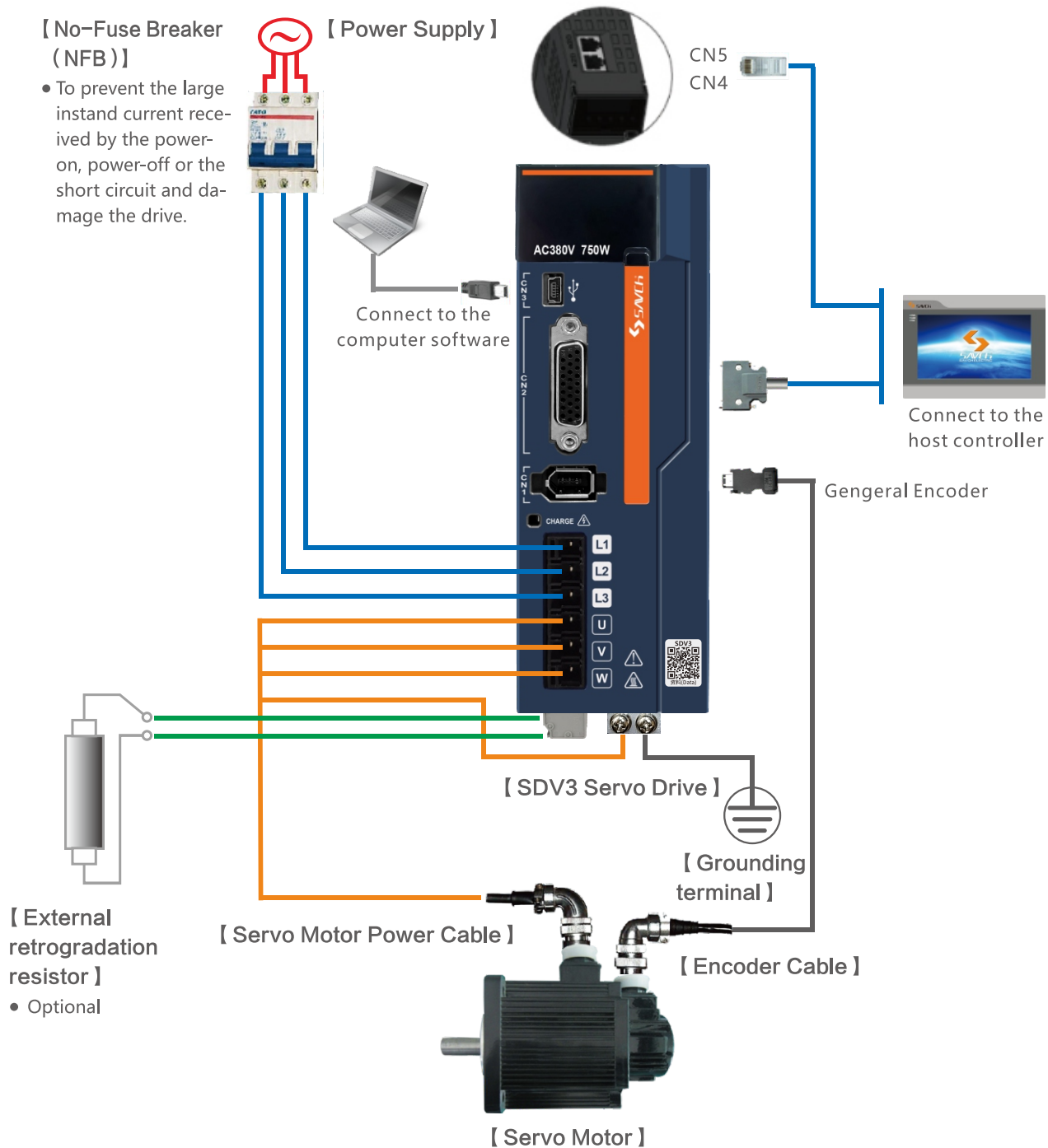
【 Installation Notes 】

- Check the L1, L2 power and connecting wire.
- Check the servo motor output U, V, W terminal phase wires (Unable to run when the connection is wrong).
- External connected regeneration resistor is the selective spare, adopt according to the actual needs.
- CHARGE indicator is on means that the power is on. When the Power is turned off, there is still left with electric in the main-circuit, so the cable should be removed only when all the indicators are off.

- SDV3-2S1.0G~1.5G/4T0.75G~2.0G

【 No-Fuse Breaker (NFB) 】

- To prevent the large instand current received by the power-on, power-off or the short circuit and damage the drive.



【 Installation Notes 】

- Check the L1, L2, L3 power and connecting wire.
- Check the servo motor output U, V, W terminal phase wires (Unable to run when the connection is wrong).
- External connected regeneration resistor is the selective spare, adopt according to the actual needs.
- CHARGE indicator is on means that the power is on. When the Power is turned off, there is still left with electric in the main-circuit, so the cable should be removed only when all the indicators are off.

- SDV3-2T2.0G~3.0G/4T3.0G~4.0G

【 No-Fuse Breaker (NFB) 】

- To prevent the large instand current received by the power-on, power-off or the short circuit and damage the drive.



【 Power Supply 】

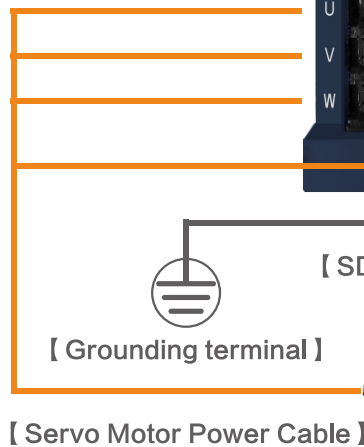


CN5
CN4



【 External retrogradation resistor 】

- Optional



【 SDV3 Servo Drive 】

【 Grounding terminal 】

【 Servo Motor Power Cable 】

【 Encoder Cable 】

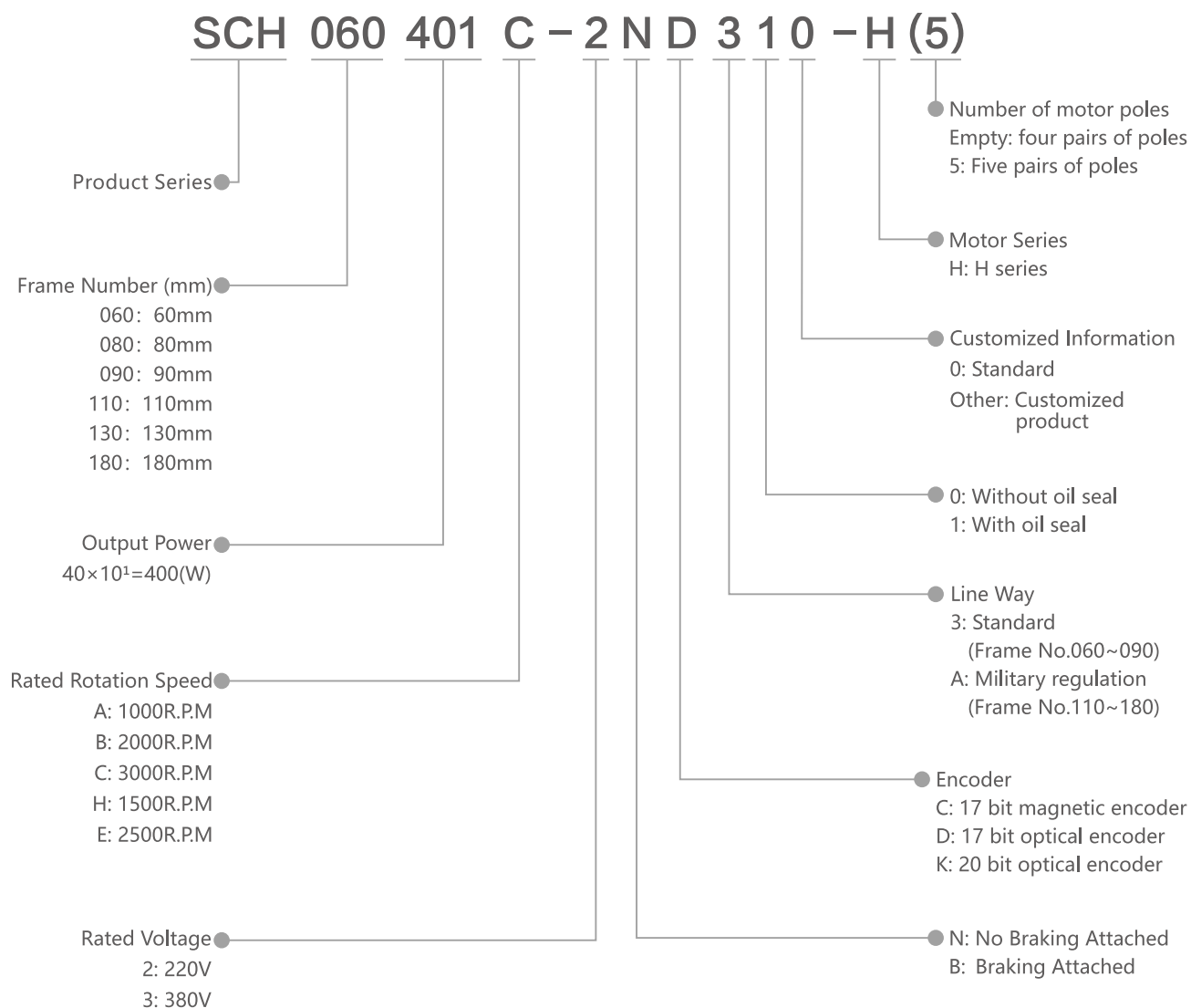
【 Servo Motor 】

【 Installation Notes 】

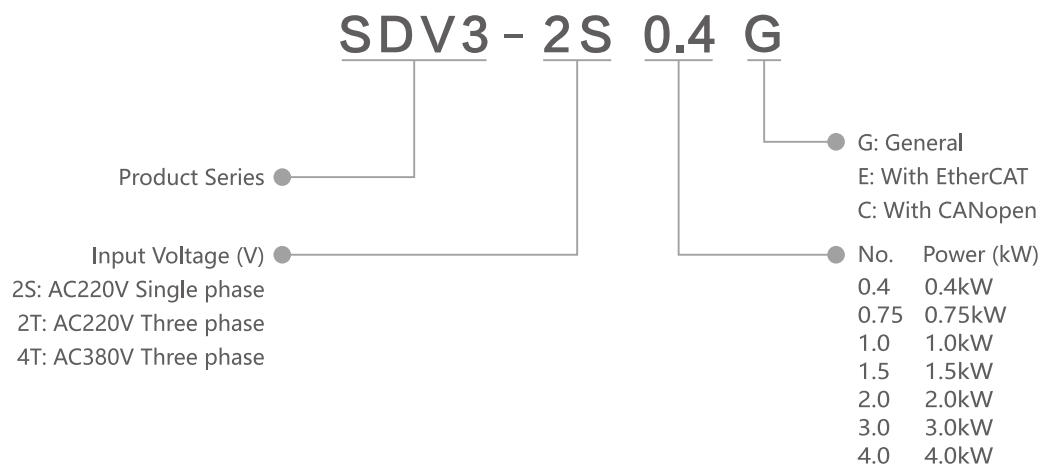
- Check the L1, L2, L3 power and connecting wire.
- Check the servo motor output U, V, W terminal phase wires (Unable to run when the connection is wrong).
- External connected regeneration resistor is the selective spare, adopt according to the actual needs.
- CHARGE indicator is on means that the power is on. When the Power is turned off, there is still left with electric in the main-circuit, so the cable should be removed only when all the indicators are off.

Model Description

• Servo Motor



• Servo Drive



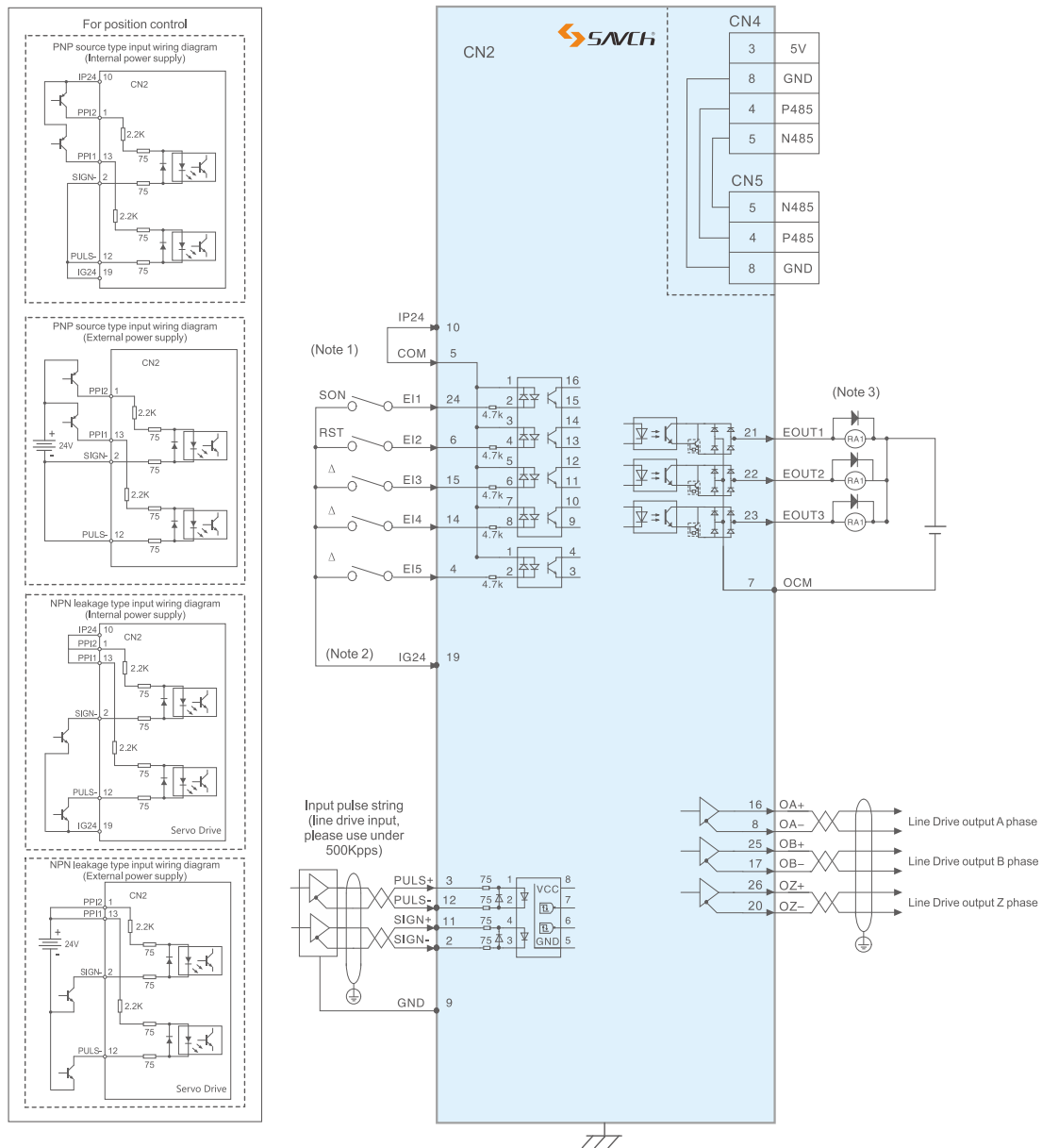
Servo Drive Specification

• Common Specifications

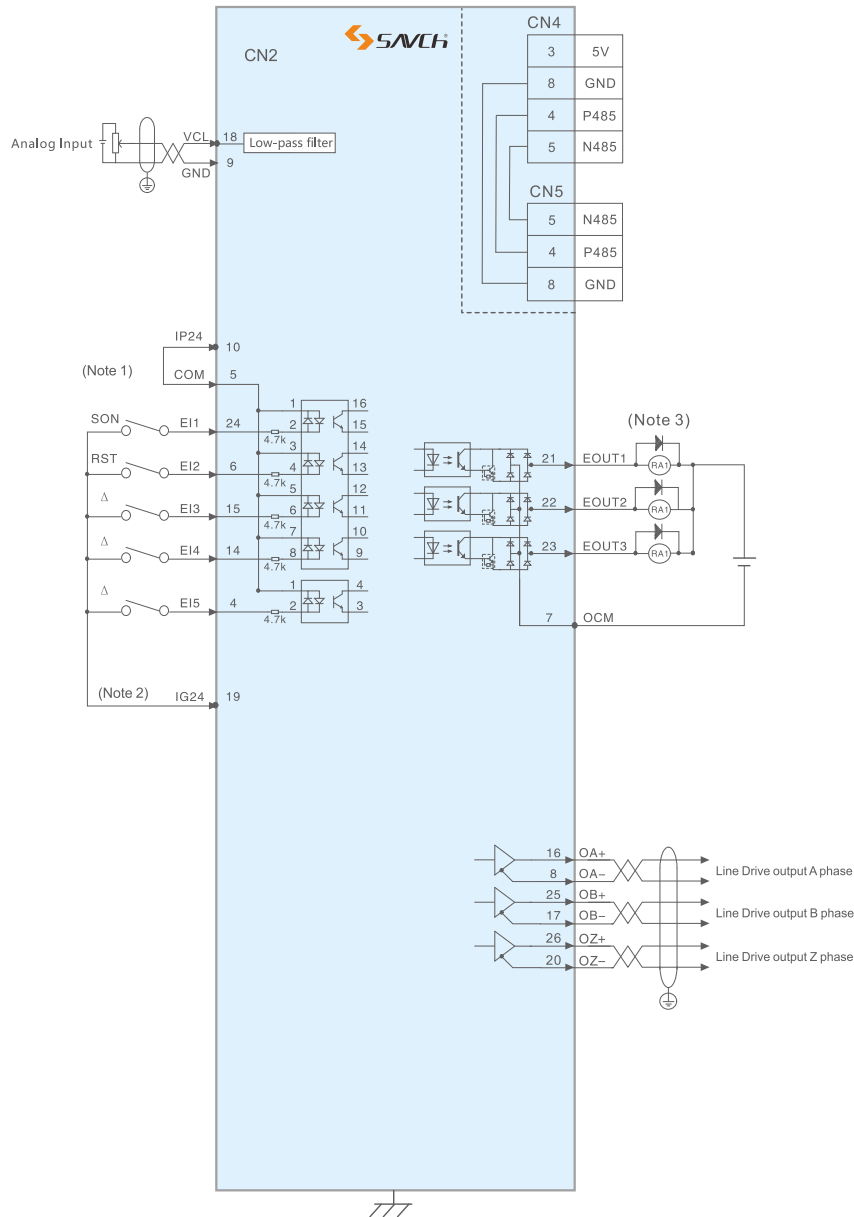
| Item | | Specifications |
|----------------------------|--|--|
| Input Power | | Single/three phase 220V ,Three phase 380V |
| | | Voltage variation range (-15%~ +10%) 50/60Hz |
| Cooling Method | | Fan cooling |
| Main Circuit Control Mode | | Sinusoidal PWM drive |
| Feedback | | 17Bit INC/20Bit INC |
| Control Mode | | ①Position control ②Speed control ③ Torque control ④Position/speed mode switch ⑤Position/torque mode switch ⑥Speed/torque mode switch ⑦Positioning operation mode |
| Position Control | Max input pulse frequency | Line Drive input: Max 500kHz Open Collector Input: Max 200kHz |
| | Command pulse input mode | ①Command pulse/command signal ②Forward rotating pulse and reverse rotating pulse ③A/B phase orthogonal pulse |
| | Command control mode | ①External command pulse input control ②Internal position data control |
| | Electronic gear | Electronic Gear N/M times (N:1~4194304)/M:1~4194304) |
| | Torque limitation | Parameter control (Forward rotating and reverse rotating can be set respectively)/ External analog torque control |
| Speed Control | Analog command input | VCL DC0~±10V |
| | Speed variation rate | ±1r/min or below (load range 0~100%) |
| | Speed range | 1:5000 |
| | Acceleration and deceleration time setting | Acceleration time and deceleration time can be set respectively, and have two groups, and can accelerate and decelerate with S curve |
| | Speed control method | External analog input,Parameter setting,Communication speed command, Command pulse frequency |
| | Torque Limitation | Parameter control (Forward rotating and reverse rotating can be set respectively)/ External analog torque control |
| Torque Control | Analog command input | VCL DC0~±10V |
| | Torque Limitation | Parameter control/External analog speed limitation |
| Digital Input/Output | Input | EI1~EI5 5 lines input, the function can be set freely according to the parameter |
| | Output | Encoder pulse outputs by frequency division, A/B/Z phase output by line drive EOUT1~EOUT3 3 lines output, the function can be set freely according to the parameter |
| Monitor | | Feedback speed, reference speed, reference torque, motor current, feedback of current location, Location Difference, reference pulse frequency, Feedback Pulse Accumulation, Reference Pulse Accumulation, VREF input voltage, TREF input voltage, input terminal signal, output terminal signal etc |
| Protection (Alarm display) | | Overcurrent (oc1, oc2), Over speeding (oS), Overvoltage(Hv), Memory Error (dE), Encoder Error(Ec), Overload (oL1, oL2), Main circuit under voltage (Lu), EI Repeat (ctE), Deviation overflow (oF), Servo motor drive overheat (AH) etc. |
| Application Environment | Site location | Indoors (Avoid direct sunlight), No corrosive gas (Avoid smoke, methane) |
| | Ambient Temperature | 0~50℃ (When the ambient temperature is higher than the required one, please introduce air circulation) |
| | Storage Temperature | -20℃~75℃ |
| | Relative humidity | RH 90% lower (No condensation) |
| | Altitude | Lower than 1000m |
| | Atmospheric pressure | 86~106kPa |
| | Vibration | ≤0.5G |

Wiring Diagram

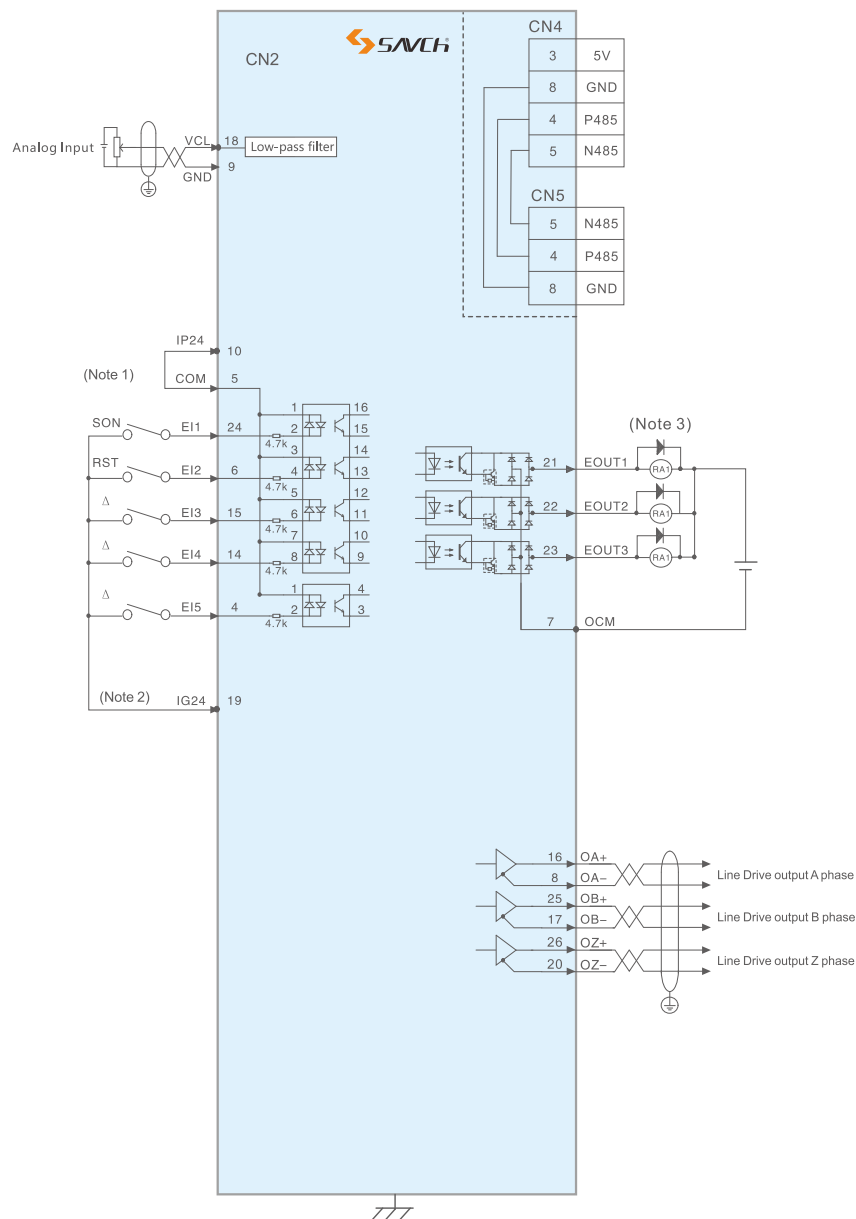
• Position Control Standard Wiring Diagram



• Speed Control Standard Wiring Diagram



- Torque Control Standard Wiring Diagram



Notes 1: When the external power supply are adopted, do not connect the COM with IP24, external power supply 24V connected to COM.

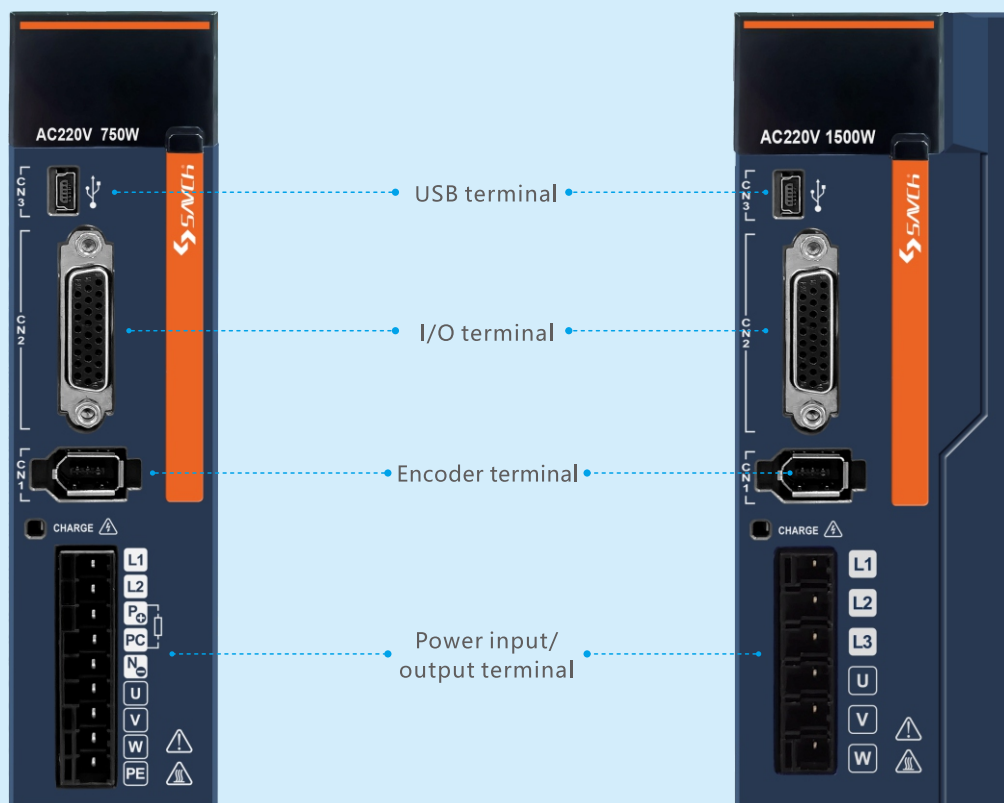
Notes 2: The EI input terminal that is marked Δ indicates that the initial function is not defined, user can set the required function according to the "User Manual".

Notes 3: The diode installation direction could not be connected by the wrong way, max working voltage 24V, max output current 50mA; the current value of external relay ring should be lower than 80mA. When the current value is greater than 80mA, the power should be supplied externally.

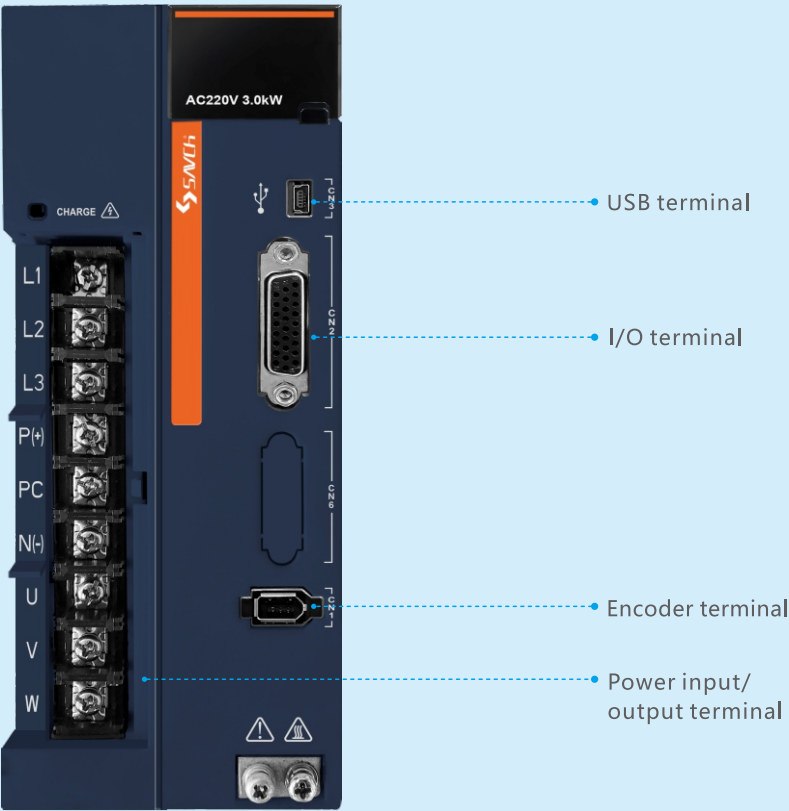
Notes: The above picture is the reference picture for the selected model, please read the manual and relevant wiring guidance carefully.

Servo Drive External Description

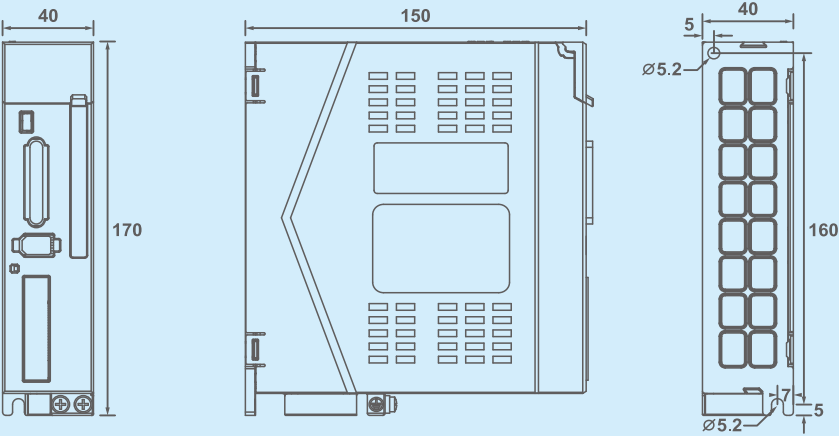
- Front View



• Front View

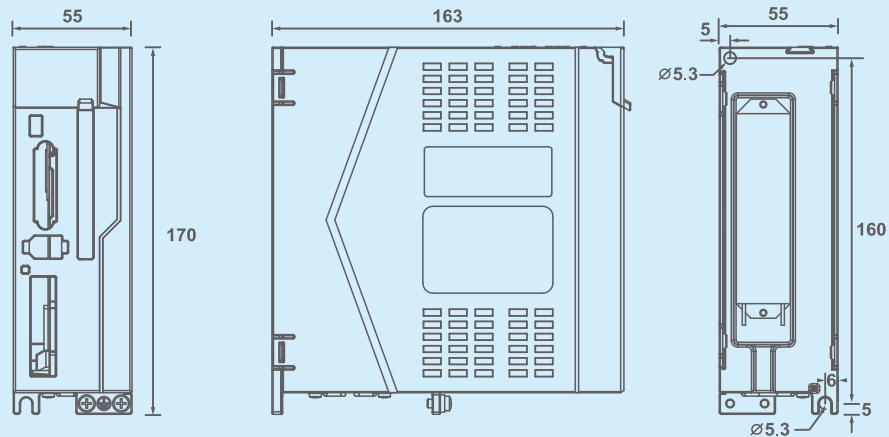


• Servo Drive External Dimension (Unit: mm)

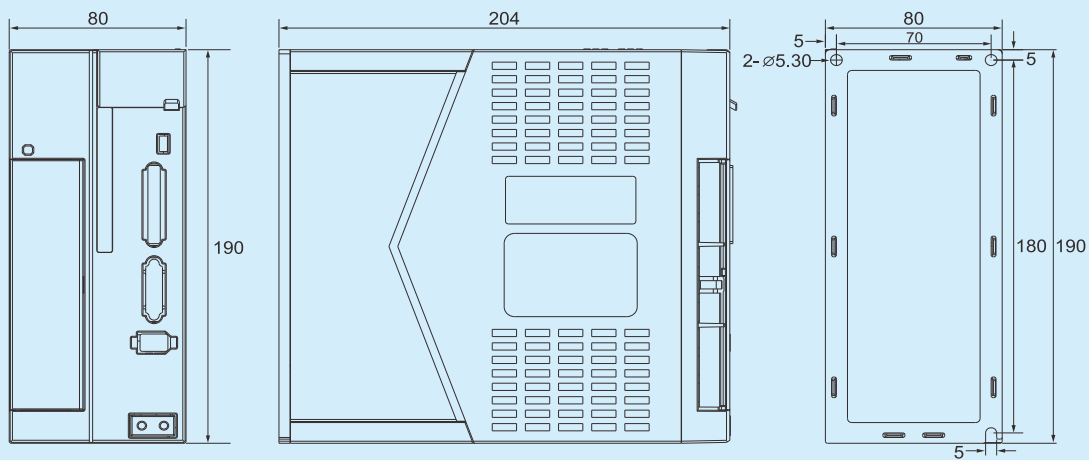


| | | |
|--------|----|------------|
| Size 1 | 2S | 0.4G~0.75G |
|--------|----|------------|

• Servo Drive External Dimension (Unit: mm)



| | | |
|--------|----|------------|
| Size 2 | 2S | 1.0G~1.5G |
| | 4T | 0.75G~2.0G |



| | | |
|--------|----|-----------|
| Size 3 | 2T | 2.0G~3.0G |
| | 4T | 3.0G~4.0G |

Servo Motor Specification

- H series 220V
 - 60mm Series

| Item | Servo Motor Model | |
|--|------------------------------------|-------------|
| | SCH060201C | SCH060401C |
| Rated Output Power (W) | 200 | 400 |
| Applicable Servo Motor Driver | SDV3-2S0.4G | SDV3-2S0.4G |
| Rated Torque (N·m) | 0.64 | 1.27 |
| Rated Rotation Speed (R.P.M.) | 3000 | 3000 |
| Rated Current (A) | 1.8 | 2.6 |
| Rotor Inertia ($\text{kg}\cdot\text{m}^2\times 10^{-4}$) | 0.264 | 0.407 |
| Instant Max Torque (N·m) | 1.91 | 3.81 |
| Max Rotation Speed (R.P.M.) | 3600 | 3600 |
| Weight (kg) | 1.2 | 1.6 |
| Insulation Level | F Class (155°C) | |
| Servo motor Ambient Temperature | -20°C~+40°C | |
| Permanent magnet brake | Brake Rated Voltage (V) | DC24±10% |
| | Brake Static Friction Torque (N·m) | 2 |
| | Brake Rated Power (W) | 11 |

- 80mm Series

| Item | Servo Motor Model | | |
|--|------------------------------------|--------------|-------------|
| | SCH080751C | SCH080731B | SCH080102E |
| Rated Output Power (W) | 750 | 730 | 1000 |
| Applicable Servo Motor Driver | SDV3-2S0.75G | SDV3-2S0.75G | SDV3-2S1.0G |
| Rated Torque (N·m) | 2.39 | 3.5 | 4 |
| Rated Rotation Speed (R.P.M.) | 3000 | 2000 | 2500 |
| Rated Current (A) | 3 | 3 | 4.4 |
| Rotor Inertia ($\text{kg}\cdot\text{m}^2\times 10^{-4}$) | 1.82 | 2.63 | 2.97 |
| Instant Max Torque (N·m) | 7.1 | 10.5 | 12 |
| Max Rotation Speed (R.P.M.) | 3600 | 2400 | 3000 |
| Weight (kg) | 2.9 | 3.9 | 4.1 |
| Insulation Level | F Class (155°C) | | |
| Servo motor Ambient Temperature | -20°C~+40°C | | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% | |
| | Brake Static Friction Torque (N·m) | 4 | |
| | Brake Rated Power (W) | 18 | |

- H series 220V
 - 110mm Series

| Item | Servo Motor Model | | | |
|--|------------------------------------|-------------|-------------|-------------|
| | SCH110122C | SCH110152C | SCH110122B | SCH110182C |
| Rated Output Power (W) | 1200 | 1500 | 1200 | 1800 |
| Applicable Servo Motor Driver | SDV3-2S1.0G | SDV3-2S1.5G | SDV3-2S1.0G | SDV3-2S1.5G |
| Rated Torque (N·m) | 4 | 5 | 6 | 6 |
| Rated Rotation Speed (R.P.M.) | 3000 | 3000 | 2000 | 3000 |
| Rated Current (A) | 5 | 6 | 4.5 | 6 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 5.4 | 6.3 | 7.6 | 7.6 |
| Instant Max Torque (N·m) | 12 | 15 | 12 | 18 |
| Max Rotation Speed (R.P.M.) | 3600 | 3600 | 2400 | 3600 |
| Weight (kg) | 6 | 6.8 | 7.9 | 7.9 |
| Insulation Level | F Class (155°C) | | | |
| Servo motor Ambient Temperature | -20°C~+40°C | | | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% | | |
| | Brake Static Friction Torque (N·m) | 8 | | |
| | Brake Rated Power (W) | 15 | | |

- 130mm Series

| Item | Servo Motor Model | | | | |
|--|------------------------------------|-------------|-------------|-------------|-------------|
| | SCH130102E | SCH130132E | SCH130152E | SCH130102A | SCH130152H |
| Rated Output Power (W) | 1000 | 1300 | 1500 | 1000 | 1500 |
| Applicable Servo Motor Driver | SDV3-2S1.0G | SDV3-2S1.0G | SDV3-2S1.5G | SDV3-2S1.0G | SDV3-2S1.5G |
| Rated Torque (N·m) | 4 | 5 | 6 | 10 | 10 |
| Rated Rotation Speed (R.P.M.) | 2500 | 2500 | 2500 | 1000 | 1500 |
| Rated Current (A) | 4 | 5 | 6 | 4.5 | 6 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 8.5 | 10.6 | 12.6 | 19.4 | 19.4 |
| Instant Max Torque (N·m) | 12 | 15 | 18 | 20 | 25 |
| Max Rotation Speed (R.P.M.) | 3000 | 3000 | 3000 | 1200 | 1800 |
| Weight (kg) | 6.2 | 6.6 | 7.4 | 10.2 | 10.2 |
| Insulation Level | F Class (155°C) | | | | |
| Servo motor Ambient Temperature | -20°C~+40°C | | | | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% | | | |
| | Brake Static Friction Torque (N·m) | 16 | | | |
| | Brake Rated Power (W) | 25 | | | |

■ 130mm Series

| Item | Servo Motor Model | | | |
|--|------------------------------------|-------------|-------------|-------------|
| | SCH130202E | SCH130262E | SCH130232H | SCH130382E |
| Rated Output Power (W) | 2000 | 2600 | 2300 | 3800 |
| Applicable Servo Motor Driver | SDV3-2T2.0G | SDV3-2T2.0G | SDV3-2T2.0G | SDV3-2T3.0G |
| Rated Torque (N·m) | 7.7 | 10 | 15 | 15 |
| Rated Rotation Speed (R.P.M.) | 2500 | 2500 | 1500 | 2500 |
| Rated Current (A) | 7.5 | 10 | 9.5 | 13.5 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 15.3 | 19.4 | 27.7 | 27.7 |
| Instant Max Torque (N·m) | 22 | 25 | 30 | 30 |
| Max Rotation Speed (R.P.M.) | 3000 | 3000 | 1800 | 3000 |
| Weight (kg) | 8.3 | 9.1 | 12.6 | 11.8 |
| Insulation Level | F Class (155°C) | | | |
| Servo motor Ambient Temperature | -20°C~+40°C | | | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% | | |
| | Brake Static Friction Torque (N·m) | 8 | 16 | |
| | Brake Rated Power (W) | 15 | 25 | |

■ 180mm Series

| Item | Servo Motor Model | |
|--|------------------------------------|-------------|
| | SCH180252H | SCH180302H |
| Rated Output Power (W) | 2500 | 3000 |
| Applicable Servo Motor Driver | SDV3-2T2.0G | SDV3-2T3.0G |
| Rated Torque (N·m) | 17 | 19 |
| Rated Rotation Speed (R.P.M.) | 1500 | 1500 |
| Rated Current (A) | 10 | 12 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 65 | 70 |
| Instant Max Torque (N·m) | 42 | 47 |
| Max Rotation Speed (R.P.M.) | 1800 | 1800 |
| Weight (kg) | 19.5 | 20.5 |
| Insulation Level | F Class (155°C) | |
| Servo motor Ambient Temperature | -20°C~+40°C | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% |
| | Brake Static Friction Torque (N·m) | 30 |
| | Brake Rated Power (W) | 35 |

- H series 380V
 - 80mm Series

| Item | Servo Motor Model | | |
|--|------------------------------------|--------------|-------------|
| | SCH080751C | SCH080731B | SCH080102E |
| Rated Output Power (W) | 750 | 730 | 1000 |
| Applicable Servo Motor Driver | SDV3-4T0.75G | SDV3-4T0.75G | SDV3-4T1.0G |
| Rated Torque (N·m) | 2.39 | 3.5 | 4 |
| Rated Rotation Speed (R.P.M.) | 3000 | 2000 | 2500 |
| Rated Current (A) | 1.6 | 1.8 | 2.3 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 1.82 | 2.63 | 2.97 |
| Instant Max Torque (N·m) | 7.1 | 10.5 | 12 |
| Max Rotation Speed (R.P.M.) | 3600 | 2400 | 3000 |
| Weight (kg) | 2.9 | 3.9 | 4.1 |
| Insulation Level | F Class (155°C) | | |
| Servo motor Ambient Temperature | -20°C~+40°C | | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% | |
| | Brake Static Friction Torque (N·m) | 4 | |
| | Brake Rated Power (W) | 18 | |

- 110mm Series

| Item | Servo Motor Model | | | |
|--|------------------------------------|-------------|-------------|-------------|
| | SCH110122C | SCH110152C | SCH110122B | SCH110182C |
| Rated Output Power (W) | 1200 | 1500 | 1200 | 1800 |
| Applicable Servo Motor Driver | SDV3-4T1.0G | SDV3-4T1.5G | SDV3-4T1.0G | SDV3-4T1.5G |
| Rated Torque (N·m) | 4 | 5 | 6 | 6 |
| Rated Rotation Speed (R.P.M.) | 3000 | 3000 | 2000 | 3000 |
| Rated Current (A) | 3.0 | 4.5 | 3.0 | 4.5 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 5.4 | 6.3 | 7.6 | 7.6 |
| Instant Max Torque (N·m) | 12 | 15 | 12 | 18 |
| Max Rotation Speed (R.P.M.) | 3600 | 3600 | 2400 | 3600 |
| Weight (kg) | 6 | 6.8 | 7.9 | 7.9 |
| Insulation Level | F Class (155°C) | | | |
| Servo motor Ambient Temperature | -20°C~+40°C | | | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% | | |
| | Brake Static Friction Torque (N·m) | 8 | | |
| | Brake Rated Power (W) | 15 | | |

■ 130mm Series

| Item | Servo Motor Model | | | |
|--|------------------------------------|-------------|-------------|-------------|
| | SCH130102E | SCH130132E | SCH130152E | SCH130202E |
| Rated Output Power (W) | 1000 | 1300 | 1500 | 2000 |
| Applicable Servo Motor Driver | SDV3-4T1.0G | SDV3-4T1.0G | SDV3-4T1.5G | SDV3-4T2.0G |
| Rated Torque (N·m) | 4 | 5 | 6 | 7.7 |
| Rated Rotation Speed (R.P.M.) | 2500 | 2500 | 2500 | 2500 |
| Rated Current (A) | 2.6 | 3.0 | 4.0 | 4.7 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 8.5 | 10.6 | 12.6 | 15.3 |
| Instant Max Torque (N·m) | 12 | 15 | 18 | 22 |
| Max Rotation Speed (R.P.M.) | 3000 | 3000 | 3000 | 3000 |
| Weight (kg) | 7.7 | 8.2 | 8.9 | 10.0 |
| Insulation Level | F Class (155°C) | | | |
| Servo motor Ambient Temperature | -20°C~+40°C | | | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% | | |
| | Brake Static Friction Torque (N·m) | 8 | | |
| | Brake Rated Power (W) | 15 | | |

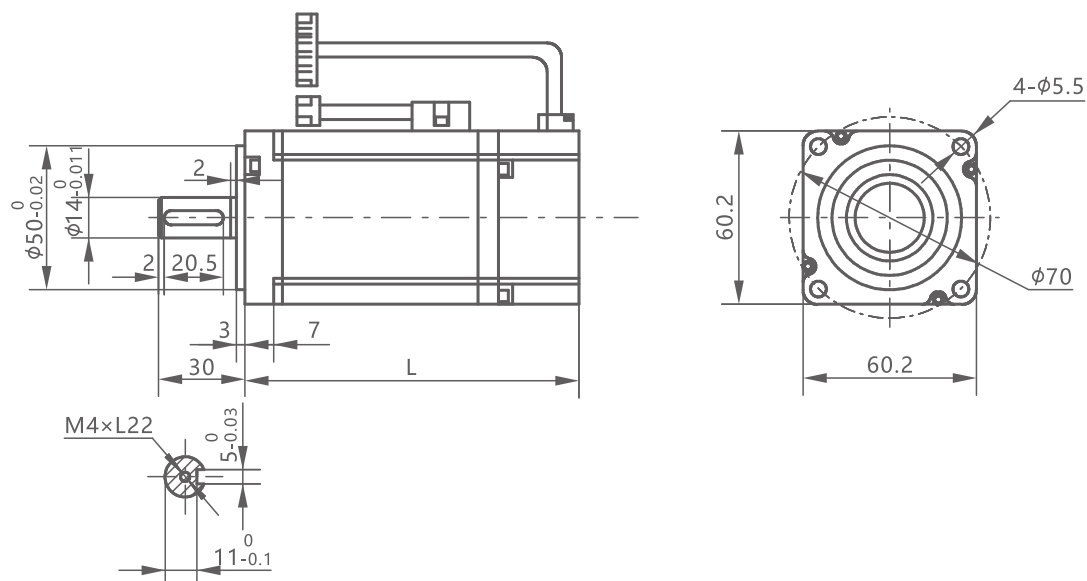
| Item | Servo Motor Model | | | | |
|--|------------------------------------|-------------|-------------|-------------|-------------|
| | SCH130102A | SCH130152H | SCH130262E | SCH130232H | SCH130382E |
| Rated Output Power (W) | 1000 | 1500 | 2600 | 2300 | 3800 |
| Applicable Servo Motor Driver | SDV3-4T1.0G | SDV3-4T1.5G | SDV3-4T2.0G | SDV3-4T2.0G | SDV3-4T4.0G |
| Rated Torque (N·m) | 10 | 10 | 10 | 15 | 15 |
| Rated Rotation Speed (R.P.M.) | 1000 | 1500 | 2500 | 1500 | 2500 |
| Rated Current (A) | 2.5 | 3.5 | 6.0 | 5.0 | 8.8 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 19.4 | 19.4 | 19.4 | 27.7 | 27.7 |
| Instant Max Torque (N·m) | 20 | 25 | 25 | 30 | 30 |
| Max Rotation Speed (R.P.M.) | 1200 | 1800 | 3000 | 1800 | 3000 |
| Weight (kg) | 10.1 | 12.1 | 9.1 | 12.6 | 14.5 |
| Insulation Level | F Class (155°C) | | | | |
| Servo motor Ambient Temperature | -20°C~+40°C | | | | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% | | | |
| | Brake Static Friction Torque (N·m) | 16 | | | |
| | Brake Rated Power (W) | 25 | | | |

- H series 380V
 - 180mm Series

| Item | Servo Motor Model | |
|--|------------------------------------|-------------|
| | SCH180302H | SCH180432H |
| Rated Output Power (W) | 3000 | 4300 |
| Applicable Servo Motor Driver | SDV3-4T3.0G | SDV3-4T4.0G |
| Rated Torque (N·m) | 19 | 27 |
| Rated Rotation Speed (R.P.M.) | 1500 | 1500 |
| Rated Current (A) | 7.5 | 10 |
| Rotor Inertia (kg·m ² ×10 ⁻⁴) | 70 | 96.4 |
| Instant Max Torque (N·m) | 47 | 67 |
| Max Rotation Speed (R.P.M.) | 1800 | 1800 |
| Weight (kg) | 20.5 | 25.5 |
| Insulation Level | F Class (155°C) | |
| Servo motor Ambient Temperature | -20°C~+40°C | |
| Magnetic Brake | Brake Rated Voltage (V) | DC24±10% |
| | Brake Static Friction Torque (N·m) | 30 |
| | Brake Rated Power (W) | 35 |

Servo Motor External Dimension

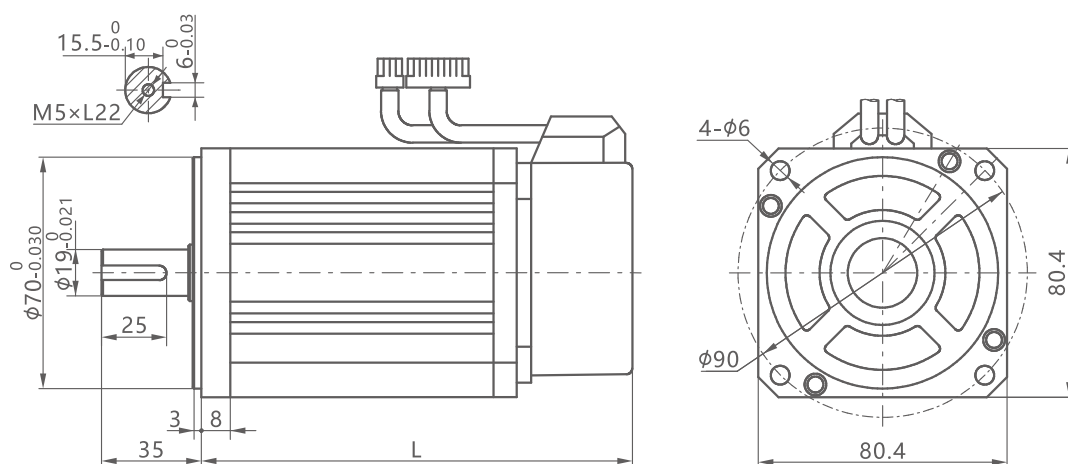
• 60mm Series



■ 220V

| Model | SCH060201C | SCH060401C |
|-------------------|------------|------------|
| L (Without Brake) | 109 | 133 |
| L (With Brake) | 157 | 181 |

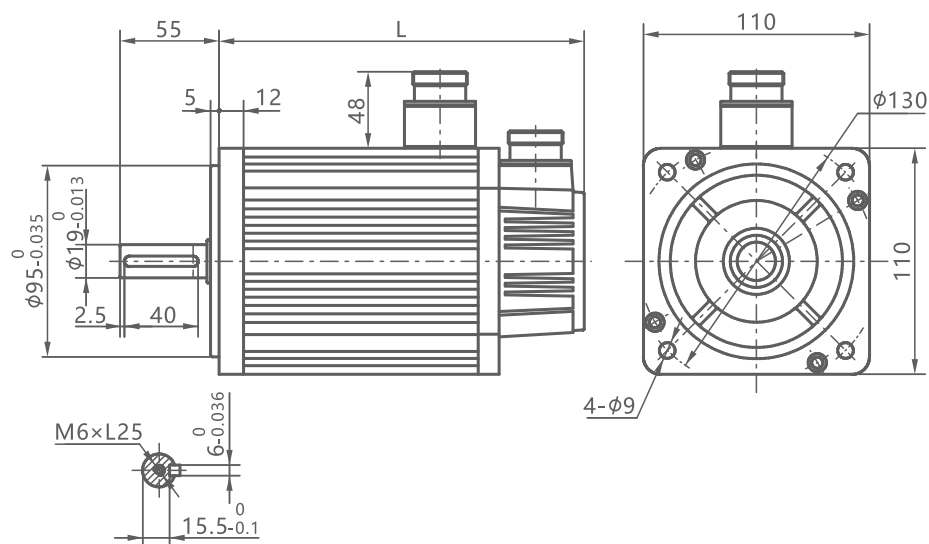
• 80mm Series



■ 220V/380V

| Model | SCH080751C | SCH080731B | SCH080102E |
|-------------------|------------|------------|------------|
| L (Without Brake) | 151 | 179 | 191 |
| L (With Brake) | 193 | 221 | 233 |

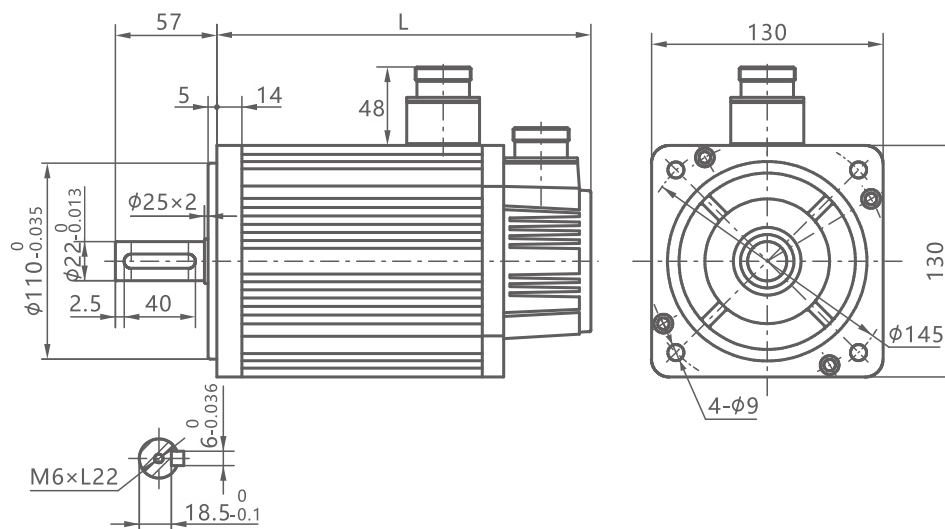
• 110mm Series



■ 220V/380V

| Model | SCH110122C | SCH110152C | SCH110122B | SCH110182C |
|-------------------|------------|------------|------------|------------|
| L (Without Brake) | 189 | 204 | 219 | 219 |
| L (With Brake) | 254 | 269 | 284 | 284 |

• 130mm Series



■ 380V

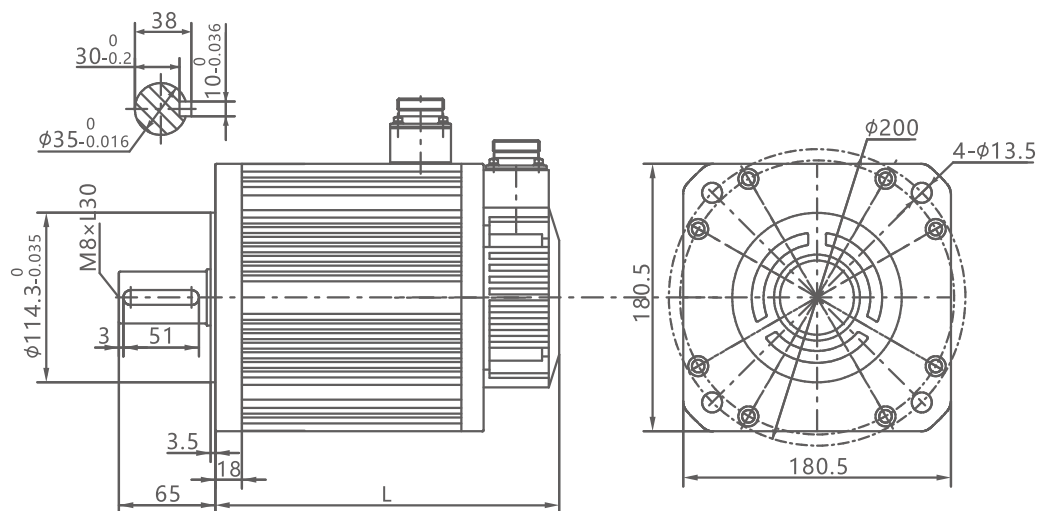
| Model | SCH130202E | SCH130262E | SCH130232H |
|-------------------|------------|------------|------------|
| L (Without Brake) | 192 | 209 | 241 |
| L (With Brake) | 252 | 272 | 304 |

■ 220V/380V

| Model | SCH130102E | SCH130132E | SCH130152E | SCH130102A | SCH130152H |
|-------------------|------------|------------|------------|------------|------------|
| L (Without Brake) | 166 | 171 | 179 | 213 | 213 |
| L (With Brake) | 226 | 231 | 239 | 276 | 276 |

| Model | SCH130202E | SCH130262E | SCH130232H | SCH130382E |
|-------------------|------------|------------|------------|------------|
| L (Without Brake) | 192 | 209 | 241 | 231 |
| L (With Brake) | 252 | 272 | 304 | 294 |

• 180mm Series

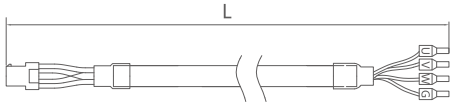
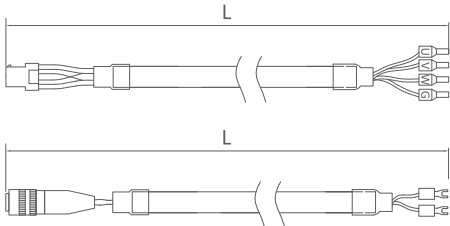
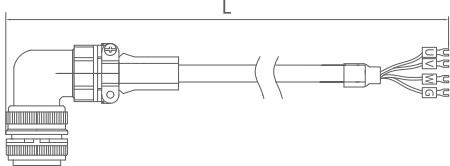
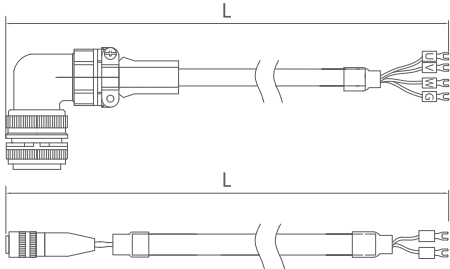
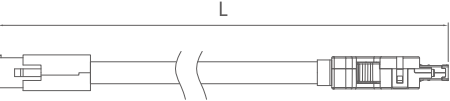
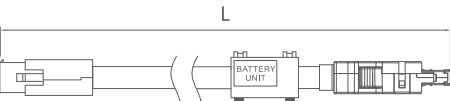
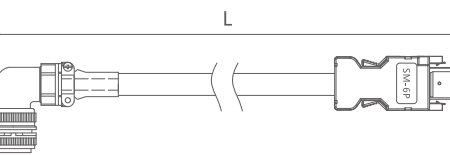
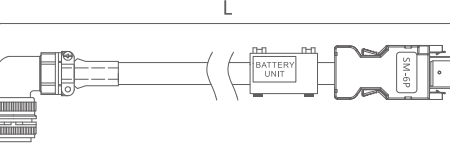


■ 220V/380V

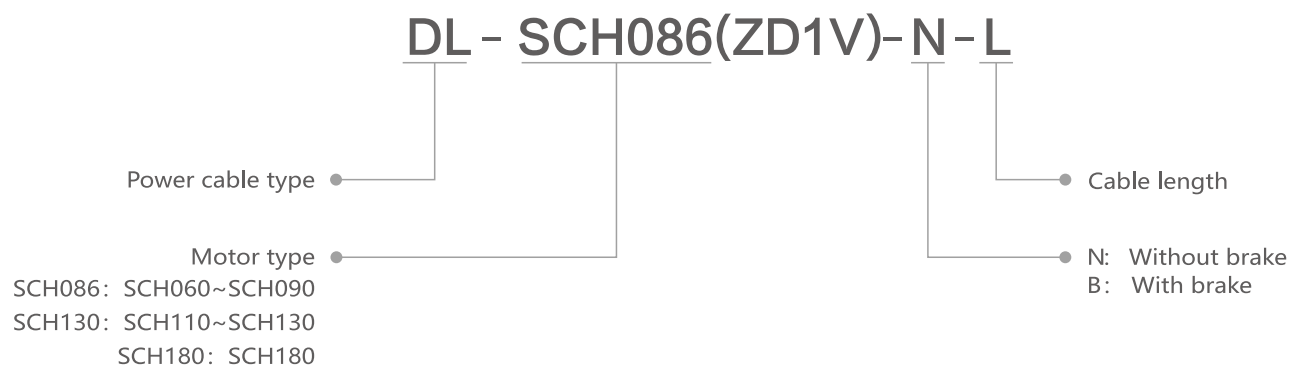
| Model | SCH180252H | SCH180302H | SCH180432H |
|-------------------|------------|------------|------------|
| L (Without Brake) | 226 | 232 | 262 |
| L (With Brake) | 298 | 304 | 334 |

Options

• Cable (Note: L: Cable length, Unit: m)

| Cable Model | | Reference Sample | Matched Motor |
|--|---------------|--|------------------------|
| DL-SCH086(ZD1V)-N-L | Without Brake |  | SCH060 to SCH090 |
| DL-SCH086(ZD1V)-B-L | With Brake |  | |
| DL-SCH130(ZD1V)-N-L DL-SCH180(ZD1V)-N-L | Without Brake |  | SCH110 to SCH180 |
| DL-SCH130(ZD1V)-B-L DL-SCH180(ZD1V)-B-L | With Brake |  | |
| SA2FK-P1S(ZD1Y)-L | |  | SCH060 to SCH090 |
| SA2FK-P1D(ZD1Y)-L | |  | |
| SA2FK-P2S(ZD1Y)-L | |  | SCH110 to SCH180 |
| SA2FK-P2D(ZD1Y)-L | |  | |

• Power Cable Type Description



• Feedback Cable Type Description




COOPERATIVE CLIENT



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 **Qualification** _____
Received **ISO9001** and **CE** recognition
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