

PSDK Series Servo Drive



Product Features

Product Features

- Powerful internal position mode allows for continuous multi-path planning for rich motion control; supports up to 32 data sets for planning, each set of data can be set to the number of pulses or angle required, and internal position mode can be set for speed, acceleration, deceleration and emergency deceleration
- Automatic determination of load inertial mechanical properties, setting optimal gain and shortening system commissioning time

Stable

- Mechanical resonance frequency analysis, configured with two sets of trap filters, adjustable frequency (50 ~ 5000Hz) and trap depth, effectively overcome low frequency resonance and mechanical end vibration, vibration frequency (1 ~ 100Hz) and vibration damping can be set
- Frictional torque compensation reduces the effect of static friction during mechanical commutation and improves command following performance at low speeds

Easy to Operate

- Support for debugging software, mechanical characteristics analysis, parameter setting, monitoring and other functions, intuitive and simple operation

Specifications

Model

PSDKAS02□□ 0.2KW	PSDKAS04□□ 0.4KW	PSDKAS08□□ 0.75KW	PSDKAS15□□ 1.5KW	PSDKAS22□□ 2.2KW	PSDKAS30□□ 3KW	PSDKAS50□□ 5KW
PSDKBS15□□ 0.2KW	PSDKBS25□□ 0.4KW	PSDKBS35□□ 0.75KW	PSDKBS55□□ 1.5KW	PSDKBS75□□ 2.2KW		

Input Power

Control Mode

Three-phase PWM converter sine wave drive

Main Power

220V: Single-phase / three-phase 220V AC (-15~+10%, 50~60Hz)
380V: Three-phase 380V AC (-15~+10%, 50~60Hz)

Control Power

220V: Single-phase 220V AC (-15~+10%, 50~60Hz)

Rated Current

220V: 0.2kW/2A, 0.4kW/2.8A, 0.75kW/5.5A, 1.5kW/10A, 2.2kW/12A, 3kW/16A, 5kW/25A
380V: 1.8kW/5A, 3kW/8A, 3.8kW/12A, 5.5kW/16A, 7.5kW/20A

Encoder Feedback

ABZ incremental encoder/absolute encoder

Environment

Working Temperature

0~45°C

Storage Temperature

-20~65°C

Working Humidity

20~85%RH or less (non condensing)

Storage Humidity

20~85%RH or less (non condensing)

Working And Storage air

Indoor (no direct sunlight), non-corrosive gases, flammable gases, oil mist, dust

Altitude

Below 1000m

Vibration

5.8m/s² (0.6G) below 10~60Hz (Cannot be used continuously at resonant frequency)

Insulation And Pressure Resistance

Primary- between F and G, 1 minute under AC1500V

Functions

IO Input

4-channel (DC24V opto-coupler isolation) Input function can be selected according to parameters below: Servo on, P action positive rotation inhibit, negative rotation inhibit, alarm reset, positive torque limit, negative torque limit, error clear

IO Output

3-channel opto-coupler isolated output; the following output function can be selected according to parameters: Alarm output, position proximity, velocity consistent detection output, motor rotation detection, servo ready, torque limit, brake release

Pulse Input

Differential input: 500K; open collector: 200K
Pulse + direction, AB orthogonal pulse, CW+CCW pulse

Pulse Output

Phase A, phase B: differential output. Phase Z: differential output or open collector output

Internal Speed Command

Three-speed distribution via input terminals

Overload Capacity

Max. 3 times torque

Analog Input

2-channel differential input ±10V, 1-channel single-ended 0-10V; switch according to control mode

Communication

Modbus; Customized CAN

Control Modes

12 control modes: position control, speed control, torque control, inner speed, position/speed control, position/torque control, speed/torque control, inner speed/position, inner speed/speed, inner speed/torque, speed/zero clamp, position control/command inhibit

Regenerative Resistance

400W: without external regenerative resistance; over 750W: with