

# SAD AC SERVO DRIVE

## Features:

- Adoption of DSP chips, greatly accelerate the speed of data acquisition and processing.
- Application of large-scale array circuit improves the reliability.
- Adoption of IPM power device decreases the volume of the driver.
- Monitor function supports displaying 24 parameters of their state.
- Two input control modes : pulse position and simulation speed.
- Concise appearance and compact structure.

## Performance:

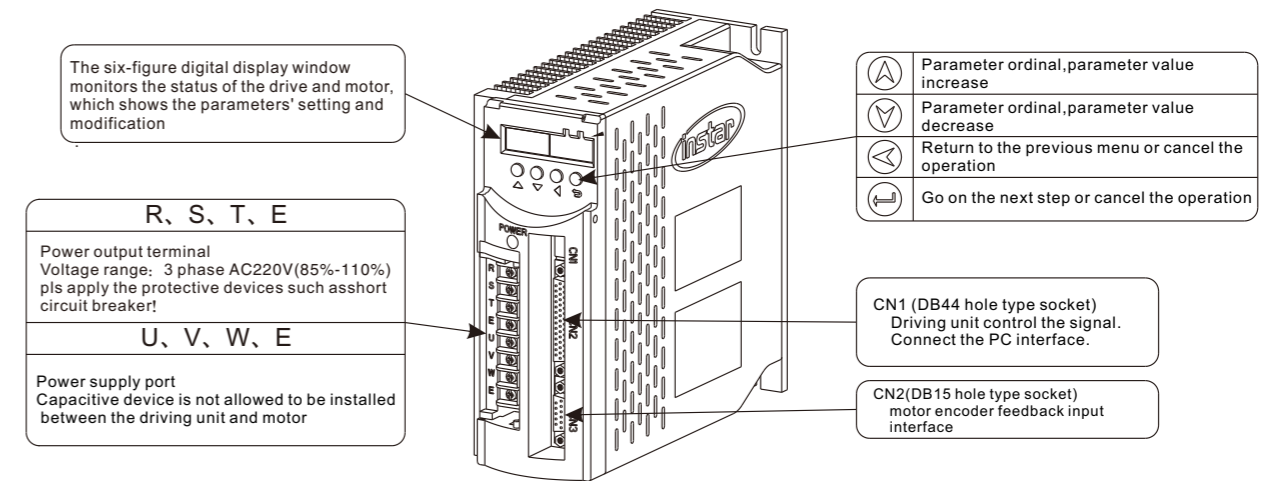
- High speed ratio, constant torque: speed ratio is 1: 5000
- High speed, high precision: max rotate speed up to 3000rpm, Positioning accuracy: 1/10000 rev
- Output power: 0.2~2.2KW

## Application:

- CNC machines: engraving machine, milling machine, coiling machine, sparking machine, wire-electrode cutting, flying shears equipment...
- Electronic equipments : upcoiler, stripping machine, lithium battery production equipment, dispensing machine, Ceramic equipment...
- Packaging equipments: filling machine, fixed length cutting machine, tissue paper machine, paper diaper equipment...
- Textile equipments: flat knitting machine, hosiery machine, round edge machine, embroidery machine, spinning machine, knitting machine...
- Printing equipments: screen printing machine, printing machine, pad printing machine...
- Laser equipments: carving machine, cutting machine, abeling machine...



## Dimension



## Technical Parameter:

Servo driver model	SDA06-MF20-□□□	SDA10-MG20-□□□
Power supply	Single / Three phase AC220V (-15%~+10%) 50~60Hz	
Controlling principle	Attains the PWM control by adoption of AC sine-wave control and optimal PID control	
Feedback signal	Incremental encoder 2500ppr with U/ V/ W signal control	
Position output signal	Available to set the electronic gear output of pulse rate, and Z-Phase open-collector output	
Protection function	Over-current, short circuit, overload, over / lack, voltage of main circuit, Abnormal braking , Abnormal encoder, overspeed, position error, etc	
Control mode	position control, speed control, trial run, JOG run	
Regenerative braking resistor	Built-in (60W, 40 ohms)	
Characters	Speed frequency response	200HZ or more
	Speed fluctuation	<0.03 (load fluctuation 0~100%) ; <±0.02 (power fluctuation -15~+10%)
	Speed ratio	1: 5000
	Pulse frequency	≤500kHz
Input control	① servo on ② alarm reset ③ clock wise rotation drive prohibited ④ counterclockwise drive prohibited ⑤ error counter clear / internal speed selection ⑥ pulse command prevented / internal speed selection ⑦ multifunctional input port1 ⑧ multifunctional input port2	
Output control	servo ready, servo alarm, positioning finished / speed reached	
Position control	Input mode	pulse command + symbol, clockwise pulse / counterclockwise pulse, 2 phase orthogonal instruction pulse
	Electronic gear	1~32767/1~32767
	Feedback pulse	10000p/r
Speed control	external command / 4 internal speed control	
Acceleration / Deceleration control	parameter setting 1~10000ms / 1000r/min	
Monitoring function	speed, current position, position command, position deviation, motor torque, motor current, linear speed, position control, pulse frequency under position command, running state	
Operation	LED digital tube, keystroke	
Weight	2kg	
Service ambient	Temperature	Working environment: 0~50°C storage environment: -20°C~65°C
	Humidity	<90% (No condensation)
	Altitude	≤1000meters
	Vibration	0.5G or less (4.9m/S <sup>2</sup> ) , 10 60Hz (not continuous running)

※ Please discuss with us or our agents if there is any other special requirements.

