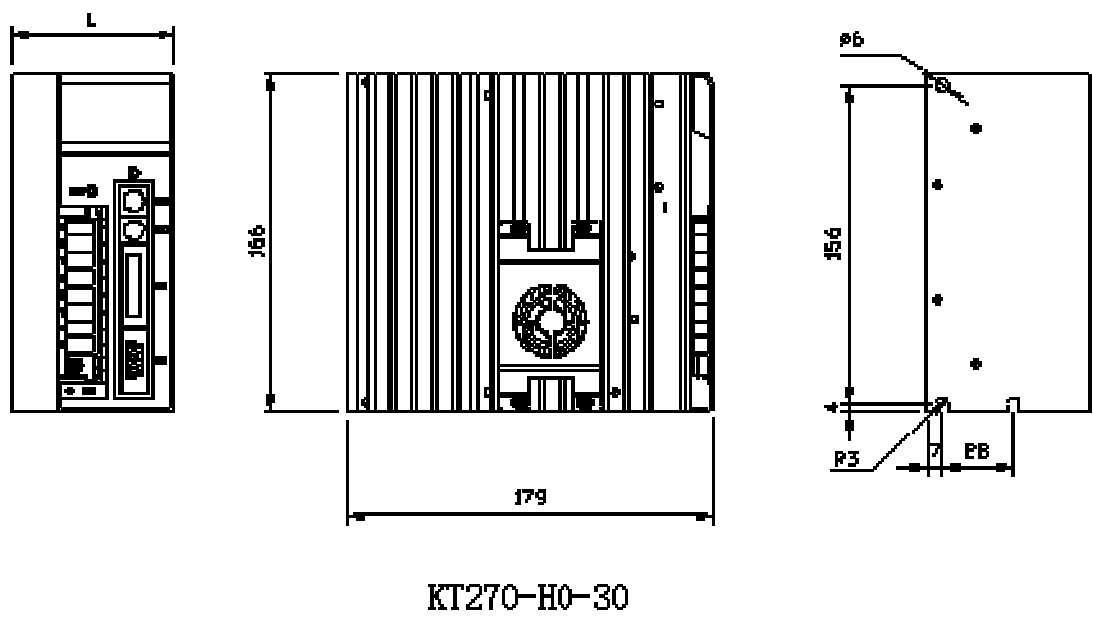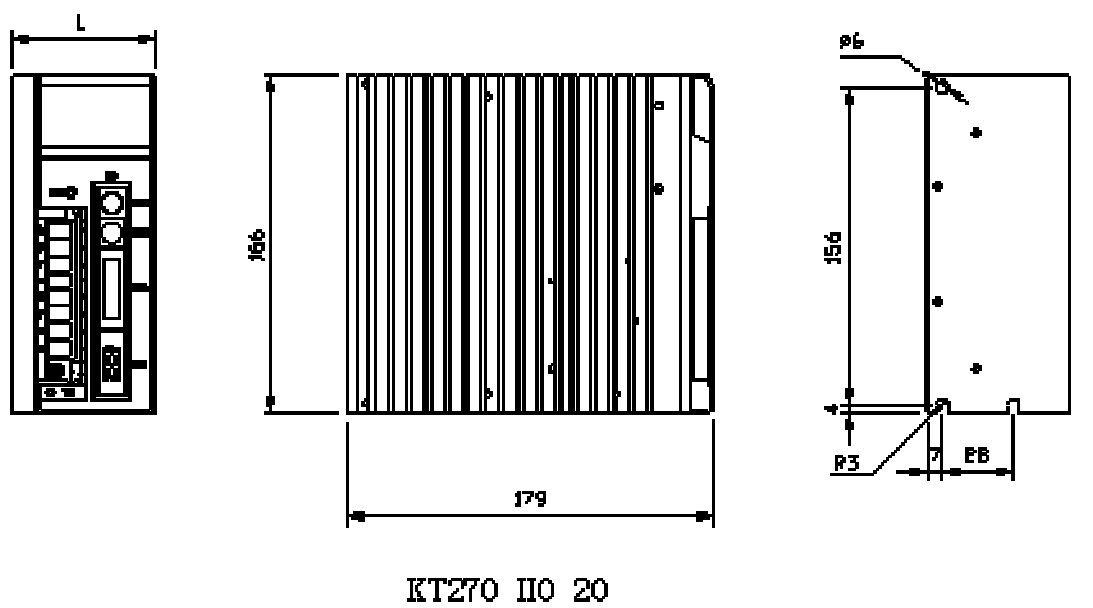# 上海电气
SHANGHAI ELECTRIC

KT270-H Servo Drive

Features:

• The use of DSP (digital signal processor) chip, greatly accelerating the speed of data acquisition and processing, the motor running with good performance.

• Application of large-scale gate array circuit, so that products with high reliability.

• Using the latest power devices IPM , greatly reducing the size of the drive.

• Slide design, easy operation, only four keys can be easily commissioning, monitoring and parameter setting; also by an external hand-held box easily commissioning, monitoring and parameter setting.

• Monitor function allows display 24 parameter state, including the motor rotation speed, the feedback pulse, command pulse, the input level and output ports such as motor current.

• With RS485 communication.

• With pulse position and speed of two kinds of analog input control, a more flexible system configuration.

• Set the position command pulse ratio (electronic gear input).

• Location of the output pulse can be set magnification (electronic gear output).

• Position / speed two kinds of control mode.

• The appearance of simple, compact.

• Power range: 400W - 3.2KW.

• Width ratio, constant torque: speed ratio of 1:5000.

• High-speed, high accuracy: maximum speed of 3000 rev / min, rotary positioning accuracy of 1 / 10000 Switch.

Function parameters:

Driver Model		KT270-HX-20	KT270- HX -30
Input power		Single-phase or three phase	Three-phase
		AC220V (-15% ~ +10%) 50 ~ 60Hz	
Control		The use of digital AC sine wave control and optimal application of PID algorithm to complete the PWM control	
Feedback signal		Incremental encoder 2500P / R with U , V , W position signal (standard)	
		Province linear encoder position signal (with KT270-XX-XXZL drive)	
Position output signal		Set the output pulse rate output of the electronic gear, plus Z -phase open collector output	
Protection		Over-current, short circuit, overload, main circuit overvoltage / undervoltage, brake abnormal, encoder error, speed, position and poor	
Control mode		Position control speed control (see 7.5 section and parameter PA4 description) test run JOGoperation	
Regenerative brake resistor		Built-in (60W, 40 ohms)	
Special Sex	Speed frequency response	200 Hz or higher	
	Rate volatility	<0.03 (load 0 ~ 100%); <± 0.02 (power -15 to +10%) (value corresponding to the rated speed)	
	Speed ratio	1 : 5000	
	Pulse frequency	≤ 500kHz	
Control input		Servo open Alarm cleared Forward drive prohibit reverse driving ban deviation counter clear / speed selection 1 command pulse inhibit / speed selection 2 multi-function input 1 multi-input 2	
Control output		☐ Servo ready ☐ servo alarm ☐ positioning completion / arrival rate	
Position control	Input	☐ command pulse + sign ☐ forward pulse / reverse pulse ☐ two-phase quadrature pulse command	
	Electronic gear	1 to 32767 / 1 to 32767	
	Feedback pulse	10 000 pulses / turn	
Speed control		External command / 4 kinds of internal speed	
Acceleration and deceleration control		Parameter set 1 ~ 10000ms/1000r/min	
Monitoring		Speed, current location, position command, position deviation, motor torque, Motor current, linear speed, position command pulse frequency, the absolute position of the rotor, Signal input and output terminals, running, etc.	
Communication		RS485	
Operating		LED digital tube, key	
Load inertia		Less than the motor inertia 5 times	
Weight		2kg	
Use of the environment	Temperature	Working : 0 ~ 50 $^{\circ}$ C Storage : -20 $^{\circ}$ C ~ 65 $^{\circ}$ C	
	Humidity	Less than 90% (no condensation)	
	Elevation	≤1,000 m	
	Vibration	Less than0.5G(4.9m/ S ^{2}), 10 ~ 60Hz (non-continuous operation)	

Dimensions:

KT270 II0 20

KT270-H0-30

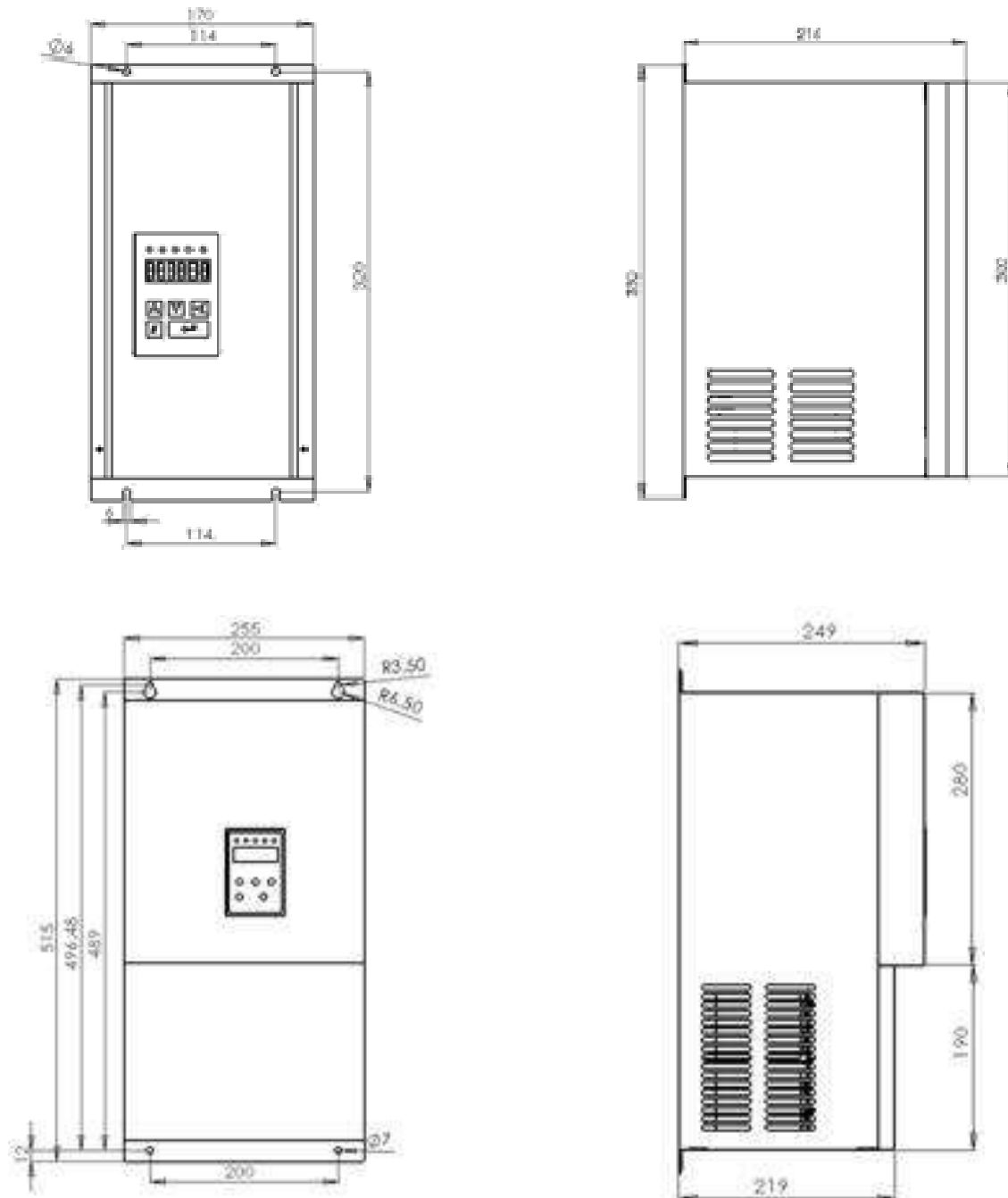| Driver Model	L (mm)
KT270-HX-20	70
KT270-HX-30	80

KT290 Servo Drive

Features:

• Te use of DS P (Digital Signal Processor) chip, greatly accelerating the speed of data acquisition and processing, the motor running with good performance.

• Application of large-scale gate array circuit, so that products with high reliability.

• Using the latest power devices IPM.

• Easy to operate, only four keys can be easily commissioning, monitoring and parameter setting.

• Monitor function allows display 24 parameter state, including the motor rotation speed, the feedback pulse, command pulse, the input \ output ports and the motor current level, etc.

• With pulse position and speed of two kinds of analog input control, a more flexible system configuration.

• Set the position command pulse ratio (electronic gear input).

• Location of the output pulse can be set magnification (electronic gear output).

• Position / speed two kinds of control mode.

• Be driven by incremental optical encoder or resolver as feedback element of the servo motor.

• The appearance of simple, compact.

• Power range: 5.4KW-22KW.

• Width ratio, constant torque: speed ratio of 1 : 5000.

• High-speed, high accuracy: maximum speed of 3000 turn / min, rotary positioning accuracy of 1 / 10000 Switch.

Function parameters:

Driver Model			KT290-A6-50 KT290-A6-75	KT290-A6-100 KT290-A6-150
Power supply	The main power	Rated input voltage	Three-phase AC 380V ~ 480V 50 ~ 60Hz	
		Input voltage range	Three-phase AC 323V ~ 528V 50 ~ 60Hz	
	Control power		Single-phase AC 220V (-15% ~ +10%) 50 ~ 60Hz	
Control			The use of digital AC sine wave control and optimal application of PID algorithm to complete the PWM control	
Feedback signal			Incremental encoder 2500P / R with U , V , W position signal (standard)	
			Resolver 1024P / R (see 7.5 section)	
Position output signal			Set the output pulse rate output of the electronic gear, plus Z -phase open collector output	
Protection			Over-current, short circuit, overload, main circuit overvoltage / undervoltage, brake abnormal, encoder error, speed, position and poor	
Use of the environment	Temperature		Working : 0 ~ 50 $^{\circ}$ C Storage : -20 $^{\circ}$ C ~ 65 $^{\circ}$ C	
	Humidity		Less than 90% (no condensation)	
	Vibration		Less than0.5G(4.9m/ S ^{2}), 10 ~ 60Hz (non-continuous operation)	
Control mode			Position control ② speed control (see 7.5 section and parameter PA4 description) ③ test run ④ JOG operation speed control ⑤ torque control mode	
Regenerative brake resistor			External	
Special Sex	Speed frequency response		200 Hz or higher	
	Rate volatility		<0.03 (load 0 ~ 100%); < ± 0.02 (power -15 to +10%) (value corresponding to the rated speed)	
	Speed ratio		1 : 5000	
	Pulse frequency		≤ 500kHz	
Control input			① Servo open ② Alarm Clear Forward driving ban ③ ④ reverse driving ban ⑤ deviation counter clear / speed selection,, 1 ⑥ command pulse inhibit / speed selection 2 ⑦ multi-function input 1 ⑧ multi-input 2	
Control output			① Servo ready servo alarm ② ③ positioning completion / arrival rate	
Position control	Input		① command pulse + sign ② forward pulse / reverse pulse command pulse ③ two-phase and quadrature	
	Electronic gear		1 to 32767 / 1 to 32767	
	Feedback pulse		10 000 pulses / turn	
Speed control			External command / 4 kinds of internal speed	
Acceleration and deceleration control			Parameter set 1 ~ 10000ms/1000r/min	
Monitoring			Speed, current location, position command, position error, the motor torque, motor current, Straight-line speed, position command pulse frequency, the absolute rotor position signal input and output terminals, running, etc.	
Operating			6 -bit LED digital tube, 5 keys	
Load inertia			Less than the motor inertia 5 times	
Weight			9kg	22kg

Dimensions: KT290-A6-50/75