

KT270-H Servo Drive



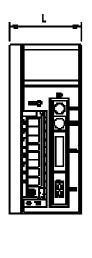
Features:

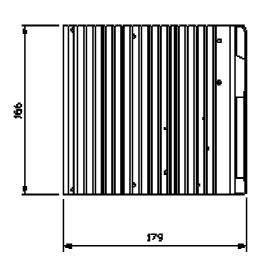
- The use of DSP (digital signal processor) chip, greatly accelerating the speed of data acquisition and processing, the motor running with good performance.
- Application of large-scale gate array circuit, so that products with high reliability.
- Using the latest power devices IPM, greatly reducing 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.

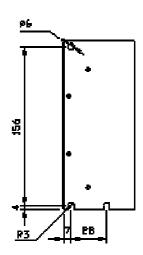
Function parameters:

Driver Model		KT270-HX-20	KT270- HX -30	
Input power		Single-phase or three phase	Three-phase	
		A	AC220V (-15% ~ +10%) 50 ~ 60Hz	
	Control	The use of digital AC sine wave control and optimal application		
Control		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)		
Posi	tion 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		
	Trottodion	abnormal, encoder error, speed, position and poor		
(Control mode	□ Position control □ speed control (see 7.5 section and parameter PA4 description) □ test		
,	Sontrol mode	run □ JOGoperation		
Regene	rative brake resistor	Built-in (60W, 40 ohms)		
	Speed frequency		200 Hz or higher	
	response	200 FIZ OF HIGHEI		
Special	Rate volatility	<0.03 (load 0 ~ 100%); <± 0.02 (power -15 to +10%)		
Sex		(value corresponding to the rated speed)		
	Speed ratio		1 : 5000	
	Pulse frequency		≤ 500kHz	
		☐ Servo open ☐ Alarm cle	ared □ Forward drive prohibit □ reverse driving ban	
1	Control input	□ deviation counter clear / speed selection 1 □ command pulse inhibit / speed selection 2		
		□ multi-function input 1 □ n	nulti-input 2	
Control output		☐ Servo ready ☐ servo alarm ☐ positioning completion / arrival rate		
	Input	□ command pulse + sign □ forward pulse / reverse pulse □ two-phase quadrature pulse		
			command	
Positio		1 to 32767 / 1 to 32767		
contro	9			
	Feedback		10 000 pulses / turn	
	pulse	_		
	Speed control	Extern	nal command / 4 kinds of internal speed	
Accelera	tion and deceleration control	Pa	rameter set 1 ~ 10000ms/1000r/min	
		Speed, current location, position command, position deviation, motor torque,		
	Manitoring	Motor current, linear speed, p	Motor current, linear speed, position command pulse frequency, the absolute position of the	
	Monitoring	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		
	Temperature	Working : 0 \sim 50 $^{\circ}$ C Storage : -20 $^{\circ}$ C \sim 65 $^{\circ}$ C		
Use of t	he Humidity	Less than 90% (no condensation)		
environm	nent Elevation		≤1,000 m	
	Vibration	Less than 0.5G(4	Less than 0.5G(4.9m/ S 2), 10 ~ 60Hz (non-continuous operation)	
	•			

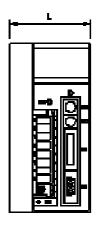
Dimensions:

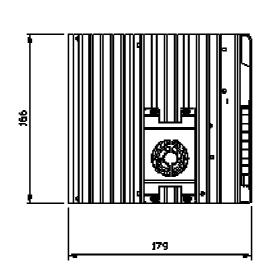


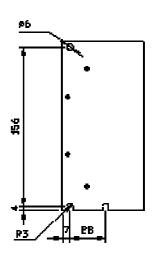




KT270 IIO 20







KT270-H0-30

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



KT290 Servo Drive



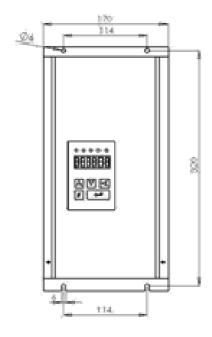
Features:

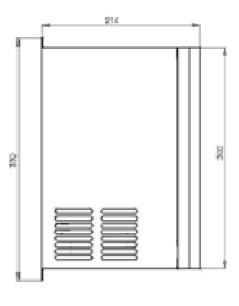
- Te use of DS P (Digital Signal Processor) chip, greatly accelerating the speed of data acquisition and processing, the motor running with good performance.
- Application of large-scale gate array circuit, so that products with high reliability.
- Using the latest power devices IPM.
- Easy to operate, 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.

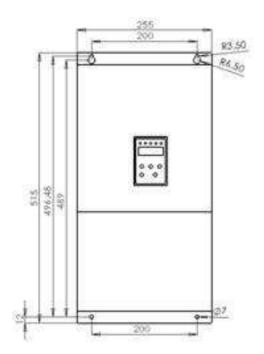
Function parameters:

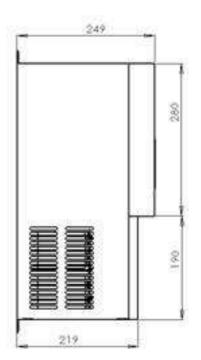
Feedback signal Set the output pulse rate output of the electronic gear, plus 2 -phase open collector output Over-current, short circuit, overload, main circuit overvoltage / undervoltage, brake abnorm encoder error, speed, position and poor Temperature Humidity Footrol mode Control mode Feedenerative brake resistor Feedback pulse Feed requency response Speed frequency response Speed ratio Pulse frequency Control input Control input Control input Control output Feedback pulse Feedback pulse Feedback pulse Coperating Feedback pulse Coperating Feedback pulse Feedback pulse Coperating Feedback pulse Coperating Feedback pulse Feedback pulse Coperating Feedback pulse Feedback pul	Driver Model			KT290-A6-50 KT290-A6-75	KT290-A6-100 KT290-A6-150	
Input voltage range Three-phase AC 232V < 50 - 60Hz		The	Rated input voltage	Three-phase AC 380V ~ 480	0V 50 ~ 60Hz	
The use of digital AC sine wave control and optimal application of PID algorithm to complete the PVML control Feedback signal Set the output pulse rate output of the electronic gear, plus Z-phase open collector output Over-current, short circuit, overload, main circuit overvoltage / undervoltage, brake abnorm encoder error, speed, position and poor Working: 0 – 50 ° C Storage: -20 ° C – 65 ° C Humidity Less than 90% (no condensation) Vibration Less than 90% (no condensation) Position control © speed control (see 7.5 section and parameter PA4 description) Set strum © JOG operation speed control © torque control mode Regenerative brake resistor Feedback pulse Speed fequency response Speed requency response Speed requency response Control input Feedback pulse Control input Control input Control input Control output O servo open @ Alarm Clear Found driving ban @ reverse driving ban @ deviation counter clear / speed selection., 1 @ command pulse inhibit / spe selection 2 O multi-function input 1 @ multi-input 2 Control output O command pulse + sign © forward pulse / reverse pulse command pulse @ two-phase an quadrature Feedback pulse Feedback			Input voltage range	Three-phase AC 323V ~ 528V 50 ~ 60Hz		
Feedback signal			Control power	Single-phase AC 220V (-15% ~ +10%) 50 ~ 60Hz		
Feedback signal Feedba	Control			The use of digital AC sine wave control and optimal application		
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 of the electronic gear, plus Z -phase open collector output of the electronic gear, plus Z -phase open collector output overviolance / position and poor encoder error, speed, position control (see 7.5 section and parameter PA4 description)				of PID algorithm to complete the PWM control		
Position output signal Set the output pluse rate output of the electronic gear, plus Z -phase open collector output plus rate output of the electronic gear, plus Z -phase open collector output pluse rate output of the electronic gear, plus Z -phase open collector output pluse rate output of the electronic gear, plus Z -phase open collector output pluse rate output of the electronic gear, plus Z -phase open collector output pluse rate output of the electronic gear, plus Z -phase open collector output pluse rate output of the electronic gear, plus Z -phase open collector output pluse rate output of the electronic gear, plus Z -phase open collector output pluse rate output of the electronic gear, plus Z -phase open collector output pluse rate output of the electronic gear, plus Z -phase open collector output pluse rate and parameter PA4 description plus per denoted plus plus per denoted plus plus per denoted plus plus per denoted plus per position plus plus per position plus plus per p				Incremental encoder 2500P / R with U , V , W position signal (standard)		
Protection Over-current, short circuit, overload, main circuit overvoltage / undervoltage, brake abnormenced environment of the environment o				Resolver 1024P / R (see 7.5 section)		
encoder error, speed, position and poor Separative Humidity Less than 90% (no condensation)		Position	n output signal	Set the output pulse rate output of the electronic gear, plus Z -phase open collector output		
See of the environment Temperature Working: 0 - 50 °C Storage: -20 °C - 65 °C		Di	rotection	Over-current, short circuit, overload, main circuit overvoltage / undervoltage, brake abnormal,		
Humidity Less than 90% (no condensation)		• •	Toto Glori			
Humidity Less than 90% (no condensation) Vibration Less than 0.5G(4.9m/ S ²), 10 - 60Hz (non-continuous operation)	Use	of the	Temperature	Working : 0 ~ 50 ° C Storage : -20 ° C ~ 65 ° C		
Vibration Less than0.5G(4.9m/ S ²), 10 ~ 60Hz (non-continuous operation)			Humidity	Less than 90% (no condensation)		
Seed resistor Special	CHVIIOIIIICH		Vibration	Less than0.5G(4.9m/ S ²), 10 ~ 60Hz (ı	Less than 0.5G(4.9m/ S 2), 10 \sim 60Hz (non-continuous operation)	
Regenerative brake resistor External Special Sex Special Fequency response External Special Sex Speed frequency response C.0.03 (load 0 ~ 100%); < ± 0.02 (power -15 to +10%) Speed ratio 1 : 5000 Pulse frequency ≤ 500kHz Control input © Servo open @ Alarm Clear Forward driving ban @ @ reverse driving ban @ @ deviation counter clear/speed selection., 1 @ command pulse inhibit/speeselection 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 command pulse @ two-phase an quadrature Position Electronic gear 1 to 32767 / 1 to 32767 Feedback pulse 10 000 pulses / turn Speed control External command / 4 kinds of internal speed Acceptation and deceleration control Parameter set 1 ~ 10000ms/1000r/min Speed, current location, position command, position error, the motor torque, motor current, Straight-line speed, position command, position error,	Control mode			□ Position control ② speed control (see 7.5 section and parameter PA4 description)		
Special Sex				③ test run ④ JOG operation speed control ⑤ torque control mode		
Rate volatility \$\ \text{volatility} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	Regenerat	ive brake resistor	External		
Special Sex Speed ratio		Speed frequency response		200 Hz or higher		
Speed ratio 1:5000 Pulse frequency ≤500kHz Control input	Special	Rate volatility		<0.03 (load 0 ~ 100%); < ± 0.02 (power -15 to +10%)		
Speed ratio 1:5000 Pulse frequency ≤ 500kHz	•			(value corresponding to the rated speed)		
Control input Control input Control output Command pulse + sign ② forward pulse / reverse pulse command pulse ③ two-phase an quadrature Control Electronic gear Feedback pulse Control output Command pulse + sign ② forward pulse / reverse pulse command pulse ③ two-phase an quadrature Command pulse + sign ② forward pulse / reverse pulse command pulse ③ two-phase an quadrature Electronic gear To 32767 / To 32767 Feedback pulse Control External command / 4 kinds of internal speed Acceleration and deceleration control Parameter set 1 ~ 10000ms/1000r/min Speed, current location, position command, position error, the motor torque, motor current, Straight-line speed, position command pulse frequency, the absolute rotor position sign input and output terminals, running, etc. Operating Control output Operating Operating Operating Control output Operating Operating Operating Control output Operating Op	COX	Speed ratio		1:5000		
Control input S deviation counter clear/speed selection,, 1		Pulse frequency		≤ 500kHz		
Position control Input	Control input			⑤ deviation counter clear / speed selection,, 1 ⑥ command pulse inhibit / speed selection 2		
Position control 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 Speed, current location, position command, position error, the motor torque, motor current, Straight-line speed, position command pulse frequency, the absolute rotor position sign input and output terminals, running, etc. Operating 6 -bit LED digital tube, 5 keys Load inertia Less than the motor inertia 5 times	Control output		itrol output	① Servo ready servo alarm ② ③ positioning completion / arrival rate		
Electronic gear Feedback pulse Speed control Acceleration and deceleration control Monitoring Monitoring Electronic gear 1 to 32767 / 1 to 32767 10 000 pulses / turn External command / 4 kinds of internal speed Parameter set 1 ~ 10000ms/1000r/min Speed, current location, position command, position error, the motor torque, motor current, Straight-line speed, position command pulse frequency, the absolute rotor position sign input and output terminals, running, etc. Operating 6 -bit LED digital tube, 5 keys Load inertia Less than the motor inertia 5 times	Position	<u> </u>		① command pulse + sign ② forward pulse / reverse pulse command pulse ③ two-phase and quadrature		
Speed control Acceleration and deceleration control Parameter set 1 ~ 10000ms/1000r/min Speed, current location, position command, position error, the motor torque, motor current, Straight-line speed, position command pulse frequency, the absolute rotor position sign input and output terminals, running, etc. Operating 6 -bit LED digital tube, 5 keys Load inertia Less than the motor inertia 5 times		Electronic gear				
Acceleration and deceleration control Parameter set 1 ~ 10000ms/1000r/min Speed, current location, position command, position error, the motor torque, motor current, Straight-line speed, position command pulse frequency, the absolute rotor position sign input and output terminals, running, etc. Operating 6 -bit LED digital tube, 5 keys Load inertia Less than the motor inertia 5 times			Feedback pulse	10 000 pulses / turn		
Acceleration and deceleration control Parameter set 1 ~ 10000ms/1000r/min Speed, current location, position command, position error, the motor torque, motor current, Straight-line speed, position command pulse frequency, the absolute rotor position sign input and output terminals, running, etc. Operating 6 -bit LED digital tube, 5 keys Load inertia Less than the motor inertia 5 times	Speed control		ed control	External command / 4 kinds of internal speed		
Monitoring Straight-line speed, position command pulse frequency, the absolute rotor position sign input and output terminals, running, etc. Operating 6 -bit LED digital tube, 5 keys Load inertia Less than the motor inertia 5 times	· · · · · · · · · · · · · · · · · · ·					
Load inertia Less than the motor inertia 5 times	Monitoring			Straight-line speed, position command pulse frequency, the absolute rotor position signal		
	Operating			6 -bit LED digital tube, 5 keys		
Western Oliver	Load inertia			Less than the motor inertia 5 times		
vveight 9kg 22kg	Weight			9kg	22kg	

Dimensions: KT290-A6-50/75











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