



Product Catalog

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V25.061



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Servo system

Pulse type servo driver | Bus type servo drive | Servo motor | Servo PLC All-in-one
Stepper PLC All-in-one | Stepper driver | Stepper motor

Pulse type servo driver

Image

C600S-40 | C600S-75



C630S-40 | C630S-75



C620S



Product specifications

Model	C600S-40	C600S-75	C630S-40	C630S-75	C620S
Dimension	160*135*42				190*160*47
Installation dimension	150*27				180*40
output power	0.1KW~0.4KW/0.4KW~1KW		0.1KW~0.4KW/0.4KW~1KW		1KW~2KW
Adaptive motor	CN7J-060430A3KUAA, CN7J-060430A3KVBA (with brakes) CN7J-080830A3KUAA, CN7J-080830A3KVBA (with brakes) CN7J-081030A3KUAA, CN7J-081030A3KVBA (with brakes)				CN8G-131325A3KUAA, CN8G-131325A3KVBA (with brakes) CN8G-131525A3KUAA, CN8G-131525A3KVBA (with brakes) CN8G-132025A3KUAA, CN8G-132025A3KVBA (with brakes)
Main circuit input power supply	Single phase AC220V -15%~+10% 50/60Hz				Single phase/three-phase AC220V-15%~+10% 50/60Hz
Communication mode	Comes with 1 RS485 and supports standard Modbus RTU protocol				
Digital quantity	Comes with 4DI/4DO, customizable by users, supports NPN or PNP connections (non miscible)				
Control mode	0: Position control mode; 1: Speed control mode; 2: Torque control method; 3: Position velocity hybrid control method; 4: Position torque hybrid control method; 5: Speed torque hybrid control method				
Protection function	Overspeed/main power overvoltage/undervoltage/overcurrent/overload/encoder abnormality/-control power abnormality/position deviation				
Monitoring function	Speed/current position/command pulse accumulation/position deviation/motor torque/motor current/operating status, etc				
Control input	1: Servo Enable 2: Alarm Clear 3: CCW Drive Prohibited 4: CW Drive Prohibited 5: Deviation counter reset 6: Command pulse prohibition 7: CCW torque limit 8: CW torque limit				
Control output	Servo ready/servo alarm/positioning completed/mechanical braking				
Dynamic braking	Supports built-in and external (default built-in)				
Applicable load	Less than 3 times the inertia of the motor				
Display operation	5-digit LED digital display, 4 operation buttons		5-digit LED digital display, 5 operation buttons		5-digit LED digital display, 4 operation buttons
Position control	Input method	0: Pulse +direction; 1: CCW/CW pulse; 2: A/B two-phase orthogonal pulse; 3: Internal position control			
	Input electronic gear ratio	Gear ratio molecule: 1-32767; Gear ratio denominator: 1-32767			
Cooling method	Natural cooling or forced air cooling				
Usage environment	Occasion	A place with good ventilation, low humidity and dust, no water vapor, and direct sunlight. No corrosive, ignition gas, oil and gas, cutting fluid, cutting powder, iron powder and other environments.			
	Temperature/humidity	Operating temperature range of 0-50 °C; Storage temperature -20 °C~65 °C humidity 40~85% RH (no condensation)			
Weight (net weight)	675g/750g		675g/750g		1030g
Detailed information reference	Coolmay C600S AC Servo Manual and Coolmay C600S AC Servo User Manual		Coolmay C630S Servo User Manual Coolmay C630S Servo User Manual		Coolmay C620S AC Servo Manual and Coolmay C620S AC Servo User Manual

Bus type servo drive

Image

C600E-40



C600E-75



Product specifications

Model	C600E-40		C600E-75	
External dimensions	160*135*42			
Installation size	150*27			
output power	0.1KW~0.4KW		0.75KW~1KW	
Adaptive motor	CN7J-060430A3KUAA, CN7J-060430A3KVBA (with brakes)		CN7J-080830A3KUAA, CN7J-080830A3KVBA (with brakes) 、 CN7J-081030A3KUAA, CN7J-081030A3KVBA (with brakes)	
Main circuit input power supply	Single phase AC220V-15%~+10% 50/60Hz			
Communication method	Comes with 1 RS485 and supports standard Modbus RTU protocol; RJ45*2, Supports EtherCAT communication protocol, addresses are automatically assigned through the main station			
Numerical quantity	Comes with 4DI/4DO, customizable by users, supports NPN or PNP connections (non miscible)			
Control mode	0: Position control mode 1: Speed control mode 2: Trial operation control mode 3: JOG control mode 6: Torque control mode			
Protection function	Overspeed/main power overvoltage/undervoltage/overcurrent/overload/encoder abnormality/control power abnormality/position deviation			
Monitoring function	Speed/current position/command pulse accumulation/position deviation/motor torque/motor current/operating status, etc			
Control input	1: Negative limit 2: Positive limit 3: Origin signal 4: CCW drive disabled 5: CW drive prohibition 6: Deviation counter reset 7: Instruction pulse prohibition 8: CCW torque limit 9: CW torque limit			
Control output	Servo ready/servo alarm/positioning completed/mechanical braking			
Energy consumption braking	Supports built-in and external (default built-in)			
Applicable load	Supports built-in and external (default built-in)			
Display operation	5-digit LED digital display, 4 operation buttons			
Position control	Input method	Bus based communication		
	Input electronic gear ratio	Bus type gear ratio accuracy: 1-13107		
		Gear ratio motor accuracy: 17 digit absolute value		
Cooling method	Gear ratio motor accuracy: 17 bit natural cooling or forced air cooling			
Usage environment	Occasion	Can be placed next to other heat generating equipment, avoiding dust, oil mist, corrosive gases, high humidity, and strong vibration areas. Combustible gases and conductive dust are prohibited		
	Temperature	Operating temperature range of 0-50 °C; Storage temperature -20 °C~65 °C		
	humidity	40 ~ 85%RH		
Weight (net weight)	675g		750g	
Detailed information reference	Coolmay C600E AC Servo Manual ; Coolmay C600E AC Servo User Manual			

Servo motor

Product specifications

Frame	Model	Voltage (V)	Power (W)	Rotational speed(rpm)	Torque (Nm)	Brake	LL (mm)	Adapted Driver	Paired with encoder
60mm	CN7J-060430A3KUAA	AC220V	400	3000	1.27	/	98	C600S-40 MX3G-C40-32MT C600E-40、C630S-40	Default: 17 bit magnetic encoder, single loop, incremental encoder 【Optional: 17 bit magnetic encoder, multi turn, absolute value encoder】
	CN7J-060430A3KVBA		400	3000	1.27	Yes	136		
80mm	CN7J-080830A3KUAA		750	3000	2.4	/	107	C600S-75 MX3G-C75-32MT C600E-75、C630S-75	
	CN7J-080830A3KVBA		750	3000	2.4	Yes	147		
	CN7J-081030A3KUAA		1000	3000	3.2	/	120	C600S-75 MX3G-C75-32MT C600E-75、C620S C630S-75	
	CN7J-081030A3KVBA		1000	3000	3.2	Yes	160		
130mm	CN8G-131325A3KUAA		1300	2500	5	/	137	C620S	
	CN8G-131325A3KVBA		1300	2500	5	Yes	171		
	CN8G-131525A3KUAA		1500	2500	6	/	145.5		
	CN8G-131525A3KVBA		1500	2500	6	Yes	179.5		
	CN8G-132525A3KUAA		2000	2500	7.7	/	170		
	CN8G-132525A3KVBA		2000	2500	7.7	Yes	204		
									

Servo matching wire

Wire classification	Model	Describe	Adapted Driver	Notes
Power line	BM600S-XX-G-N-9PA	XX is the length of the line, XX=01, 03, 05, ...	C600S, C600E, C630S MX3G-C40/C75-32MT	Conventional servo drivers and servo motors only need to be configured with encoding lines and power lines
	BM620S-XX-G-N-7PH	XX is the length of the line, XX=03, 04, ... 5 million times, encoder line	C620S	
Power+brake wire	DL600S-XX-G-N-4PA	XX is the length of the line, XX=01, 03, 05, ...	C600S, C600E, C630S MX3G-C40/C75-32MT	
	DL620S-XX-G-N-4PH	XX is the length of the line, XX=03, 04, ... 5 million times, power line	C620S	
Brake line	DL620S-XX-G-N-7PH	XX is the length of the line, XX=03, 04, ... 5million times, Power+brake wire	C620S	If choosing to use a brake servo motor, it is necessary to configure a coding line, power line, and brake wire
	BZ600S-XX-G-N-2PA	XX is the length of the line, XX=01, 03, 05, ...	C600S, C600E, C630S MX3G-C40/C75-32MT	

Servo PLC All-in-one

Image

MX3G-C40-32MT



MX3G-C75-32MT



Product specifications

Model	MX3G-C40-32MT	MX3G-C75-32MT
Dimension	160*135*42	
Installation dimension	150*27	
Weight(kg)	0.75	
Servo		
output power	0.05KW~0.4KW	0.75KW~1KW
Adaptive motor	CN7J-060430A3KUAA or CN7J-060430A3KVBA (with brake)	CN7J-080830A3KUAA or CN7J-080830A3KVBA (with brake)
Main circuit input power supply	Single-phase AC220V-15%~+10% 50/60Hz	
Input power	Main circuit power supply: single-phase AC220V, voltage range 200V~240V, 50/60Hz Control loop power supply: provided by internal conversion, no external power supply required	
Communication method	Comes with 1 RS485 (terminal A B), supports standard modbus RTU protocol (connected with internal PLC)	
Control mode	0: Position control mode; 1: Speed control mode; 2: Torque control mode; 3: Position-speed hybrid control mode; 4: Position-torque hybrid control mode; 5: Speed-torque hybrid control mode	
Protection function	Overspeed/main power overvoltage and undervoltage/overcurrent/overload/encoder abnormality/control power abnormality/position out of tolerance	
Protection function	Speed/current position/command pulse accumulation/position deviation/motor torque/motor current/running status, etc.	
Control input	1: Servo enable 2: Alarm clear 3: CCW drive prohibition 4: CW drive prohibition 5: Deviation counter is cleared 6: Command pulse prohibited 7: CCW torque limit 8: CW torque limit	
Control output	Servo ready/servo alarm/positioning complete/mechanical brake	
Energy consumption braking	Support built-in and external	
Applicable load	Less than 3 times of motor inertia	
Display operation	5-digit LED digital tube display, 4 operation keys	
Encoder feedback	17-bit single-turn absolute encoder	
PLC		
PLC logic supply voltage	DC24V	
I/O	Fixed 16DI/16DO, all programmable and universal	
I/O level	Input: passive NPN, common terminal connected to 24V+; output MT: low level NPN, COM connected to negative	
DO type and load	MOS tube: 2A/point, 4A/4 points COM, 5A/12 points COM;	
High-speed counting	Conventional 2 channel single-phase 60KHz + 4 channel 10KHz or 1-way AB(Z) phase 30KHz + 1 channel AB(Z) phase 5KHz	
High-speed pulse	Conventional 4 channel Y0-Y1 is 100KHz, Y2-Y3 is 50KHz; (wherein, the internal servo of Y0 is occupied) High-speed counting + high-speed pulse total can not exceed 300KHz	
Communication port	Comes with 1 RS485 (terminal A1 B1) (support modbus protocol, RS protocol, etc.)	
Software	Compatible with GX Works2/GX Developer8.86Q	
Detailed info. refer to: Coolmay MX3G-C40 C75-32M Servo PLC All-in-One Manual Coolmay MX3G-C40 C75 Servo All-in-One User Manual		

Stepper PLC All-in-one

Image

Performance specifications



SM3U-2Z



SM3U-4Z



Product specifications

Classification	Performance specifications	SM3U-2Z	SM3U-4Z
Integrated machine	Installation dimensions of the main control board	Horizontal installation: 103 * 100 * 48mm Card insertion installation: 45 * 142 * 89mm	Horizontal installation: 103 * 100 * 48mm Card insertion installation: 45 * 142 * 89mm
	Terminal board size	135*100mm	160*110mm
	Pulse frequency	Default 200KHz	
	working voltage	DC24V/2A	
	control mode	Support open-loop and closed-loop control	
	Motor shaft output	2-axis output	4-axis output
Stepper drive	Maximum output current	6.0A	
	Working voltage/current	DC24V/DC48V (2 channels simultaneously output 150w)	DC24V/DC48V (4 channels simultaneously output 300w)
	Step angle	1.8°	
	Applicable motors	The default matching closed-loop motor base is 86 series closed-loop motors, with optional 42, 57, 60, etc	
	Subdivide	Default 7200 subdivision, can use Y point to control any subdivision within 800~25600	
	Drive mode	Pulse driven	
	Operation mode	Independent programmable logic controller (PLC), external control (stepper pulse, PWM, encoder A/B), or distributed network control (modbus/rs communication)	
	Acceleration and deceleration characteristics	S-shaped curve acceleration and deceleration mode, with independent acceleration and deceleration settings	
PLC part	Number of encoder lines	Default is 1000 lines, can be customized to any encoder line number such as 2500 lines, 5000 lines, etc	
	programming software	VTool Pro	
	Digital input and output signals	12DI14DO Input: Optocoupler isolated NPN input; Output: Transistor output, maximum load of 500MA	32DI24DO
	Analog input signal	2AI (0-10V)	/
	Communication type	COM1: Round mouth RS232 COM2: RS485 (A1 B1)	1个RJ45 COM1: Round mouth RS232/D89 RS232 COM2: RS485 (A1 B1) COM3: RS485 (A B)
	Program capacity	30K/step	
	High speed processing	I/O refresh instruction, supports interrupts, PID self-tuning, electronic cam, G-code, arc linear interpolation, etc	
Usage environment	Supporting languages	Instructions, ladder diagram (LD), step ladder diagram (SFC)	
	SEnvironmental temperature and humidity for use	-10~50 °C does not freeze, 40~99 [RH%] does not condense	
	Storage temperature and humidity	-20 °C~60 °C (maximum temperature guarantee: 80 °C for 72 hours), 10~99 [RH%] no condensation	
	Using altitude	Below 1000m altitude	
	Vibration/shock	5.9 (m/s²) / 19.6 (m/s²)	
	Cooling method	Natural cooling or forced air cooling at altitude	
	Application scenarios	Cannot be placed next to other heat generating equipment. Avoid dust, oil mist, corrosive gases, high humidity, and strong vibration areas. Combustible gases and conductive dust are prohibited	
	Comprehensive protection design	Overcurrent, short circuit, grounding, overvoltage, undervoltage I2t, Control errors	

Reference: Coolmay Stepper Drive PLC all in one Manual ; Coolmay SM3U Stepper Drive Control all in one User Manual

Stepper driver

Image

CM542S



CM872S



CMA860S



CM6C



CL57G



CL86G



Product specifications

Classification		Open loop driver (universal type)				Closed loop driver	
		CM542S	CM872S	CMA860S	CM6C	CL57G	CL86G
Specifications	External dimensions	118*76*34mm	118*76*34mm	151*97*48mm	118*76*34mm	119*76*34mm	119*76*34mm
		about 260 g	about 280 g	about 400 g	about 200 g	about 300 g	about 300 g
Electrical parameters	Output current	1.0A-4.2A	2.0A-7.2A	2.0A-7.2A	1.0A-6.0A	2.2A-5.0A	2.8A-6.0A
	Input power supply	DC24V-50V; Typical valuesDC36V	DC20V-80V; Typical valuesDC36V	AC24V-80V/DC24-110V; Typical valuesDC48V	DC15V-50V/AC12-36V; Typical valuesDC36V/AC24V	AC18-55V/DC24-80V; Typical valuesDC36V/AC24V	AC18-80V/DC24-110V; Typical valuesDC36V/AC24V
	Input current	6-16mA	6-16mA	6-16mA	6-16mA	7-20mA	7-20mA
	Interface level	DC4.5-28V	DC4.5-28V	DC4.5-28V	DC5-24V	DC3.3-28V	DC3.3-28V
	Input minimum pulse width	1.5μs	1.5μs	1.5μs	1.5μs	1.5μs	1.5μs
	Pulse frequency	0-200KHz	0-200KHz	0-200KHz	0-200KHz	0-200KHz	0-200KHz
	insulation resistance	500MΩ	500MΩ	500MΩ	100MΩ	100MΩ	500MΩ
	phases	2	2	2	2	2	2
	subdivide	Any subdivision	Any subdivision	Any subdivision	25600	51200	51200
	Adapt motor	Frame: 42-57	Frame: 60-86	Frame: 86	Frame: 57/60	Frame: 57/60 (Closed loop motor)	Frame: 86 (Closed loop motor)
Cooling method		Natural cooling or forced air cooling					
Usage environment	Occasion	It cannot be placed next to other heating equipment, and should avoid dust, oil mist, corrosive gases, high humidity, and strong vibration places. Combustible gases and conductive dust are prohibited;					
	Temperature	-5°C ~ +50°C					
	Humidity	40 ~ 90%RH					
	Vibrate	5.9m/s² MAX					
	Storage temperature	-20°C ~ 80°C					
Using altitude		Below 1000 meters					
Reference material		CM542S Digital Two Phase Stepper Driver User Manual; CM872S Digital Two Phase Stepper Driver User Manual; CMA860S Digital Two Phase Stepper Driver User Manual; CM6C Open Loop Stepper Motor Driver User Manual; CL57G High Performance Two Phase Digital Stepper Driver *; CL86G High Performance Two Phase Digital Stepper Driver *					

Stepper motor

Product specifications

Frame	Model	Motor height	phases	Torque	Step moment angle	current	HMI COM port	Remarks
40	K4218HB-40	40mm	2	0.45Nm	1.8°	1.7A	0.28	The beginning of K represents an open-loop motor, and the beginning of B represents a closed-loop motor. The middle letter HB represents the output rotary motor, HC represents the output linear motor, HBR: Indicate brake motor
	K4218HB-48	48mm		0.6Nm	1.8°	1.7A	0.35	
	K4218HB-60	60mm		0.89Nm	1.8°	1.7A	0.47	
57	K5718HB-56	56mm	2	1.3Nm	1.8°	4.4A	0.67	
	K5718HB-76	76mm		2.3Nm	1.8°	4.4A	1.04	
	K5718HB-84	84mm		2.5Nm	1.8°	4.4A	1.14	
	K5718HB-100	100mm		3.1Nm	1.8°	4.4A	1.46	
	K5718HB-113	113mm		3.6Nm	1.8°	4.4A	1.68	
	B5718HB-76	76mm		2.3Nm	1.8°	4.0A	1.04	
	B5718HB-99	99mm		2.3Nm	1.8°	4.4A	1.46	
	B5718HB-123	123mm		3.1Nm	1.8°	4.4A		
60	K6018HB-66	66mm	2	2.2Nm	1.8°	4.0A	1.0	
	K6018HB-86	86mm		3.1Nm	1.8°	4.0A	1.3	
	K6018HB-100	100mm		3.6Nm	1.8°	4.0A	1.7	
86	K8618HB-80	80mm	2	4.5Nm	1.8°	6.0A	2.35	
	K8618HB-118	118mm		8Nm	1.8°	6.0A	3.95	
	K8618HB-156	156mm		12Nm	1.8°	6.0A	5.5	



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