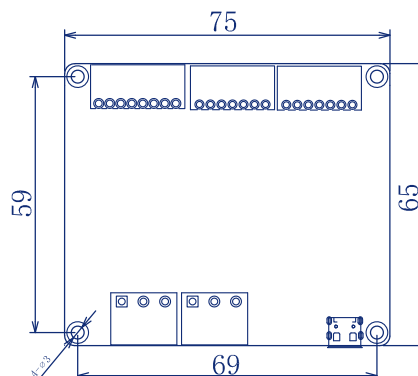


Traditional Controller +RS-485



Model		Servo Controller (Traditional Control+RS-485) AM-COF-05-10-OBDS
Dimension (mm)		75*65*25
Weight (g)		70
Fundamental Specs	Output Rated Current (Continuous, RMS)	5 A
	Output Max. Current (Intermittent, RMS)	12 A
	Input Power Supply Voltage Range	12 VDC~48 VDC (Usually according to Motor Rated Voltage)
	Overload Recognition Time	3 s
	Overload Trip Reset Delay	60 s
	Temperature Raise	(Under Rated Current) 30min≤40K
	Working Frequency	16khz
Rated Electric Insulation		Under DC voltage 1000V from input/output to housing, current leakage smaller than 3mA
Total Electric Resistance		≥1MΩ (Temp. 40℃, RH 95%, no condensing water)
Mean Time Before Failure (MTBF)		≥8000 Hrs
Power Control		Brushless DC motor, brushless DC motor
Power control mode		SVPWM
IP Level		IP20
Cooling Type		Natural cooling (if the continuous output exceeds the rated current, auxiliary heat dissipation is required)
Connection Portal Info	Analog Voltage Input Portal	1 Channel (±10V)
	Digital IO Input Portal	3 Channel (3.3VDC~24VDC), the hardware defaults to low level , and the effective level control state can be modified through parameters
	Digital IO Output Portal	1 Channel (open collector output, maximum withstand voltage 30V, maximum continuous current 0.22a)
	Direction + Pulse	1 set of Direction + Pulse (Differential & Non-differential)
	Feedback Type	Hall feedback ; Incremental encoder feedback (differential / non differential)

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Traditional Controller +RS-485

Model		Servo Controller (Traditional Control+RS-485)	
Basic Function	Application Mode		Position Closed-loop Control / Speed Closed-loop Control / Torque Closed-loop Control
	Preparation Time		Power on and no malfunction, controller ready in 3 seconds
	Hardware Protection Threshold	Under Voltage	9 V
		Over Voltage	65 V
		Over Current	Over Current Protection
		Overheat	85°C Automate Alarm and Shut Down
		Power Switch	Equipped power switch to turn on or off the motor.
	Software Protection	Malfunction Lock	Automate slow down and stop when detect malfunction, and lock the malfunction for inspection.
		Over Load	Detect whether the current continuously exceeds the maximum current setting in real time, and the fault alarm will be given after 3S by default
		Over Current	Monitor real time current value, immediate cut off motor output when current over the pre-set value.
		Differential Protection	Current or speed setting and feedback differential protection
	Digital IO	Input	Multiplex the following functions by adjusting parameters: Servo start, zero-speed position clamp, emergency shut down, origin point signal, positive position limit, negative position limit.
		Output	Multiplex the following functions by adjusting parameters: Power supply under voltage, position abnormal, hall feedback abnormal, over current, over load, driver overheat, current differentiate, speed differentiate, power supply over voltage, servo ready, servo operation, zero speed arrival, targeted speed arrival,targeted position arrival, brake output, origin point recover finish, error alarm, negative stall, positive stall, negative indicate.
	Communication Portal	USB	Usually for Commissioning (also support host computer control)
		CAN	N/A
		RS422/485	RS485 communication
		Transmission Distance	Based on the hardware connection
Torque Control	Step Response		Rise times≤1.5ms ; Over tune≤5% ; Shock ≤2 times
	Current Closed Loop Control		≥1KHz
	Speed Limitation		Parameter Limits
Speed Control	Speed Feedback		Hall feedback Incremental encoder feedback (differential / non differential)
	Encoder Power Supply		+5V±2%/50mA
	Speed Ratio		≥3000 : 1
	Step Response		Rise times≤40ms ; Overtune≤15% ; Shocks≤2.5 times
	Sinusoidal Band Response		≥500Hz
	Static Error Rate		≤0.4% (In speed 1000RPM, rated torque load)
	Speed Fluctuation Rate		≤0.6%
	Linearity		≤0.45%
Position Close-Loop Control	Highest input pulse frequency		Digital Insulation 60KHz (1 meter cable)
	Pulse commande mode		AB Pulse; Direction + Pulse
	Command control mode		External pulse control, analog input, duty cycle input
	Electronic gear ratio		Electronic Gear N/M, N: 1~65535, M: 1~65535 (parameter setting)
	Torque Limit		(Parameter Setting)
Environmental Requirements	Operation Temp.		-30°C+60°C
	Storage Temp.		-30°C+65°C
	Relative Humidity		0%~90%RH (No condensing)
	Vibration Requirements		Frequency 5Hz to 25Hz, amplitude with 1.6mm; Frequency 25Hz to 200Hz, Acceleration within 1.2g, time 30min.

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