

Traditional Controller

			73,1 68 2-Ø2.3 (2-Ø2.3 (2-M2.5 (RN 1.000 RN 1.000	6-M3 Holex:5018 0 1 35.6 2-R2₩0.3 Holex:476	761440 90 422001 80 A-A			
Model AN		I-SOE-0103-MAAS	AM-SOE-0206-MAAS	Servo Controll AM-SOE-0510-MAAS	er (Traditional Control) AM-SOE-1020-MAAS	AM-SOE-1530-MAAS		
Dimension	(mm)			73.1*57*43.5	-			
Weight (g)	225						
Fundamental Specs	Output Rated Current (Coninuous, RMS)	1 A	2 A	5 A	10	15 A		
	Output Max. Current (Intermittent, RMS)	3 A	6 A	10 A	20	30 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	30 s						
	Temperature Raise	(Under Rated Current) 30min≤40K						
	Working Frequency	6khz ~ 34khz						
Rated Electric Insulation		Under DC voltage 1000V from input/output to housing, current leakage smaller than 3mA						
Total Elec	tric Resistance	≥1MΩ (Temp. 40°C, RH 95%, no condensing water)						
Mean Time Before Failure (MTBF)		≥8000 Hrs						
Power Control		For BLDC & Servo Motor: SVPWM, Square Wave For Brushed Motor: Bipolar PWM						
IP Level		IP20						
Cooling Type		Natural Air Cool						
Connection Portal Info	Analog Voltage Input Portal	2 Channel (±10V)						
	Digital IO Input Portal	4 Channel (5VDC~24VDC), hardware default in high voltage level when not connected. Detail control functions can be set and adjusted by changing parameters.						
	Digital IO Output Portal	4 Channel (All four channels are open collector output, highest voltage at 30V; First three channels have max. continuous current of 0.25A, and last channel has max. continuous current of 2A)						
	Direction + Pulse	1 set of Direction + Pulse (Differential & Non-differential)						
	Feedback Type	Electromagnetic/Optical Incremental Encoder; SSI Absolute Encoder; RS 485 Absolute Encoder						

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SERVO CONTROLLER _____



Traditional Controller

Model			Servo Controller (Traditional Control)		
	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		
		Under Voltage	9.5 V		
	Hardware Protection Threshold	Over Voltage	75 V		
		Over Current	Over Current Protection		
		Overheat	85℃ 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	default to alarm for malfunction.		
		Over Current	Monitor real time current value, immediate cut off motor outpu when current over the pre-set value.		
Basic		Differential Protection	Current or speed setting and feedback differential protection		
Function	Digital IO	Input	Multiplex the following functions by adjusting parameters: Servo start, zero-speed position clamp, emergency shut down, origin point sigr 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.		
		Output	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	N/A		
		Transmission Distance	Based on the hardware connection		
	Stop Response		Rise time≤1.5ms;Over tune≤5%;Shock ≤2 times		
Torque Control	Current Closed Loop Control		≥1KHz		
	Speed Limitation		Parameter Limits		
	Speed Feedback		Based on Encoder		
	Encoder Power Supply		+5V±2%/500mA		
	Speed Ratio		≥3000 : 1		
Speed Control	Step Response		Rise time≤40ms;Overtune≤15%;Shock≤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%		
	Highest input pulse frequency		Digital Insulation 500K (1 meter cable)		
Postition	Pulse commande mode		AB Pulse; Direction + Pulse		
Close-Loop Control	Command control mode		Outer Pulse control, anaglogue input		
	Electronic gear ratio		Electronic Gear N/M, N: 1~65535, M: 1~65535 (parameter setting)		
	Torque Limit		(Parameter Setting)		
	Operation Temp.		-30°C+60°C		
	Storage Temp.		-30°C+65°C		
Environmental	Relative Humidity		0%~90%RH (No condensina)		
nequirements	Vibration Requirements		Frequency 5Hz to 25Hz, amplitude with 1.6mm; Frequency 25Hz to 200Hz, Acceleration within 1.2g, time 30min.		

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