

AccurET MODULAR 400

EA-P2M-400-xxxxxA controller EA-S0M-400-xx/xxA power supply

	CONTROLLERS	UNIT	EA-P2M-400-05/10A	EA-P2M-400-10/20A	EA-P2M-400-15/40A		
Number of axes		-	2	2	2		
Current range	Continuous current (per axis)	Arms	5	10 (PWM at 10 kHz)	15 (PWM at 10 kHz)		
	Max. overload current (per axis)	Arms	10	20	40		
Power input	DC voltage	VDC	48 - 400	48 - 400	48 - 400		
	Max. current	Arms	30	30	30		
PWM frequency		kHz	10, 20	10, 20	10, 20		
Weight		kg	3.3	3.3	4		
Р	OWER SUPPLY	UNIT		EA-S0M-400-40/80A			
	AC voltage (single or 3-phases)	VAC	71 - 280 (50 / 60Hz)				
Power input	Max. AC current	А	10				
	Max. inrush current	Apeak	15 at 280 VAC				
	Max. continuous power	kW	2.8 (with 1-phase AC input) or 4.8 (with 3-phase AC input)				
Auxiliary input Power output	DC voltage	VDC	24 (0 +10%)				
	Max. current	А	10				
	DC voltage	VDC	100 - 400				
	Max. continuous current	Arms	10 (limited by max. AC input current)				
	Max. pulse current	A	80				
	DC voltage	VDC	24 ± 10%				
Auxiliary output	Max. continuous current	A	10				
CO	NTROL FEATURES	UNIT					
	Motion profile and command						
General	Motion profile and command management sampling time	μs	400 (down to 200)				
			50				
	Current loop sampling time	μs	50				
	Position loop sampling time	μs					
	Basic motion profiles	-	Trapezoidal, S-curve, Sine, Look-up table,, Interpolated (refer to UltimET)				
	Advanced motion profiles	-	Refer to UltimET motion controller				
	Power safety relay	-	Relay disabling the output power bridge				
Communication interface	USB 2.0 (for setting only)	-	Full speed (12 Mbps)				
	ETEL real-time bus / cycle time	-	TransnET at 1 Gbps / 100 μs (down to 50 μs) 10 / 100 MHz				
	Ethernet (TCP/IP)	-					
Position encoder interface	Analog 1 Vpp	-	Max. 500 kHz input frequency				
	Digital (TTL)	-	Max. 10 MHz input frequency				
	EnDat 2.1 and 2.2	-	RS485				
User's inputs /	Digital inputs / outputs	-	5 / 2 (per axis)				
	Fast digital inputs / outputs	-	4 / 4 (common to both axes)				
	Analog inputs / outputs	-	0/0				
outputs	With additional optional board	-	8 digital inputs and outputs / 4 analog inputs and outputs (16 bits)				
outputs	•		For setting / monitoring (for software compatibility, refer to the ComET manual)				
	ComET commissioning software	-	u u		DLL files for C / C++ / .NET (for software compatibility, refer to the EDI manual)		
outputs Software / programmability	•	-	DLL files for C / C++ / .N	IET (for software compatibility B, Ethernet TCP/IP and Trans			

Fast triggers (1D and 2D) Force control Identification tools Gantry control Stage protection Cogging and friction compensation Dual encoder feedback RTV (Real Time Values) Trajectory filters

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Fast trigger based on theoretical or real position with less than 20ns reaction time.

Powerfull indentification tool for fine tuning and machine performance evaluation.

Learning algorithm to compensate disturbances like friction and cogging.

8 channels of real time data per axis for upper level motion management.

Advanced trajectory shapes to avoid axis vibrations and reduce settling times.

Optimized management of dual encoder feedback on a single axis.

Safety algorithm to handle very fast and controlled axis stop.

Precise force control with or without force sensor. Zero stop time for outstanding troughput.

Advanced control algorithm to drastically reduce settling times on gantry type machines.

ETEL

