Specifications – ZETA4, ZETA8, ZETA12, and ZETA4-240

	Parameter	Value	
Power	AC Power Input Motor Current (Apk) Bus Voltage	ZETA4 ZETA8 ZETA12 95-132VAC Single Phase, 50/60Hz 0-4 Amps 0-8 Amps 0-12 Amps	ZETA4-240 95-264VAC Single Phase, 50/60Hz 0-4 Amps @120VAC: 170VDC nominal, @240VAC: 340VDC nominal
Performance	Accuracy	±5 arc min (0.0833°) typical. Unloaded-bidirectional with Compumotor supplied motors. Other motors may exhibit different absolute accuracy. ±1 arc min (0.0167°) Loaded-in addition to unloaded accuracy, per each frictional load equal to 1% rated torque.	
	Repeatability	±5 arc sec (0.0014°) typical. Unloaded-one revolution returning to start point from same direction.	
	Hysteresis Resolution	Less than 2 arc min (0.0334°) unloaded-bidirectional. 16 selectable choices: 200, 400, 1000, 2000, 5000, 10000, 12800, 18000, 20000, 21600, 25000, 25400, 25600, 36000, 50000, 50800	
	Waveform	Selectable. Allows waveform shaping for optimum smoothness or relative accuracy. Pure sine; -4%, -6%, -10% 3rd harmonic.	
Motors	Type Breakdown Voltage (HIPOT) Number of Leads Accuracy Grade	2-phase hybrid permanent magnet, 1.8 degree. 1,150VDC @ 120VAC input; 1,900VDC @ 240VAC input 4, 6 or 8 3%	
A 1161	Inductance	0.5 mH minimum; 5 to 50 mH recommended range; 100 mH max	
Amplifiers	Type Number of Phases Protection* • Short Circuit • Brownout • Over-temperature Auto Standby Automatic Test Function Step Input Direction Input CW/CCW Input Shutdown Input Reset Input Fault Output	type.MOSFETconstruction. 2 Phase-to-phase, phase-to-ground. If AC supply drops below 85VAC. Over-temperature shutdown fault at 113°F (50°C) If selected, motor current ramps to 50% of preset Current levels are resumed upon receipt of next str. This feature (used primarily for testing and verificati approximately 1 rps in the negative (CCW) direction High-going pulse, 200 nsec min. width; max. pulse Logic High = positive (CW) rotation. Logic Low = n Direction input may change polarity, coincident with Dip switch selectable. High-going pulse, 200 nsec Logic High = amplifier disable. Logic Low = norma Logic High = drive held in reset. Logic Low = norma Conducting = normal operation. Not Conducting =	ep pulse. ion of correct wiring) rotates the motor at n. e rate is 2 MHz. legative (CCW) rotation. th first step pulse. min width; max pulse rate is 2 MHz. I operation. al operation. drive fault
Environmental	Operating drive Storage drive Motor Humidity	32°F to 113°F (0°C to 45°C) Fan cooling may be required if airflow restricted40°F to 185°F (-30°C to 85°C) 212°F (100°C) maximum motor case temperature. Actual temperature rise is duty-cycle dependent. 0-95%, non-condensing	
Certifications	UL Recognized CE (LVD) CE(LVD & EMC) (EMC for CISPR22/ EN55022 Class B)** Low Noise (FCC Class B)**	ZETA4, ZETA4-240, ZETA8, ZETA12 ZETA4, ZETA4-240, ZETA8, ZETA12 ZETA4-420, ZETA8, ZETA12 provided the followin • CE(LVD) motor. Compumotor recommends a ter installation • C10 (C10H) motor cable accessory (LVD/EMC cable 2	minal board (NPS) motor construction for easier able kit) g items are used and installed properly:
	C10 (C10H) motor cable accessory (LVD/EMC cable kit) ZETA EMC KIT Drive shuts down in conditions listed		
	** System compliance		

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