

# C H A P T E R ③

## *Specifications*

### **Section Objectives**

The information in this section will enable you to:

- Verify and identify product specifications

<b>Parameter</b>	<b>Value</b>
<b>Performance</b>	
Position Range	±1,073,741,823 encoder counts
Velocity Range	0.01 to 200 rev/s
Acceleration Range	0.01 to 9999 rev/s <sup>2</sup>
Velocity Accuracy	±0.02% of maximum rate
Velocity Repeatability	±0.02% of set rate
<b>Digital Servo Loop</b>	
Update Time	266 microseconds
Output	12 bit DAC
Servo Tuning	RS232C command interface
Tuning Parameters	PID with digital filter
<b>Power</b>	
DC Input	+15 VDC      15 mA
	-15 VDC      15mA
	+5 VDC      300mA
<b>RS-232C Interface</b>	
Connections	3-wire (Rx, Tx and GND) connection
Maximum OEM070s daisy chained	255
Address settings	Via # command
Parameters	9600 baud, 8 data bits, 1 stop bit, no parity
<b>Inputs</b>	
Encoder	Two phase differential (recommended) or single ended (+5VDC TTL compatible). 960 kHz maximum frequency.
General Purpose	5 user defined, 2 hardware limit, fault (0-5V TTL)

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**Outputs**

General Purpose	2 user defined, enable (buffered TTL)
Fault Output	Active HIGH:open collector, 24VDC max
Current monitor	1.2 V/A

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**Environmental**

Operating	0°C to 45°C (32°F – 113°F)
Storage	-30°C to 85°C (-22°F – 185°F)
Humidity	0 to 95% non condensing
Contaminants	The OEM070 is not water-proof, oil-proof, or dust-proof.

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