

	OFM750X S	Specifications	
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L		Parameter	Value
Рои	ver Input	DC	24-75 VDC @ 2.0 Arms (motor dependent)
Per	formance	Accuracy	+5 arc min (0.0833°) typical
1 01		nooundoy	Unloaded-bidirectional with Compumotor supplied motors. Other motors may exhibit different
			absolute accuracy.
			± r arc min (0.0167°) typical. 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%, -8%, -10% 3rd harmonic.
RS-	232C Interface	Connection	3-wire implementation (Tx, Rx, Gnd)
		Parameters	9,600 baud rate, 8 data bits, 1 stop bit, no parity
		Conligurations	Up to 8 OEIN/ 50X units can be controlled from a single nost RS-232C port in a datsy chain conliguration
Inpu	uts	Sequence Select Inputs	Three inputs to be used to select and run motion programs and for interactive machine control; Logic
		Triggor Ipputs	High = $2.0-5.0V$; Logic Low = $0-0.8V$
		Limits and Home	Logic High = $2.0-5.0V$; Logic Low = $0-0.8V$ Logic High = $2.0-5.0V$; Logic Low = $0-0.8V$
Enc	oder	A, B and Z Channel	Single-ended, active high; Logic Low = 0–0.8V; Logic High = 2.0–5.0V
		Max Frequency Min Pulse Width (Z)	500 nsecs
Out	puts	2 Programmable Outputs	Logic High = minimum of 4.26 V (source -24 mA)
		Fault Output	Logic Low = maximum of 0.44 v (sinks to 24 mA) Logic high = 5V. Logic low = .8V (output can sink up to 50mA from the load)
			5 5 5 6 6 7 7 7
Am	plifier	Туре	20 kHz fixed frequency, variable duty cycle pulse width modulated (PWM)
		Number of Phases	2
		Output Current	0.2-7.5 amps current per phase peak (selectable)
		Drive Supply Voltage	24–75 VDC (dependent on external power supply)
		Nominal Chopping Frequency	25%, 50%, or 75% of selected motor current 20 kHz
		Maximum Stepping Rate	2 MHz maximum pulse rate; 50 rps maximum speed
Pro	tective Circuits	Short Circuit*	Phase-to-phase, phase-to-ground
		Brownout	If DC supply drops below 24 VDC
		Overtemperature*	Drive will fault if heat plate exceeds 55°C
Fnv	ironmental	Drive	Max allowable ambient temperature is 122° (50°C). Fan cooling may be required if airflow is
		Bino	restricted
		1 to one fields of	Max allowable heatplate temperature is 55°C.
		Humiaity	u tu 45%, nuti-condensing
Phy	sical	Drive Dimensions	5.0 x 3.6 x 1.6 in (127 x 91 x 41 mm)
		Weight	14 oz
Mot	or	Туре	Two-phase hybrid permanent magnet 1.8°
WOU		Number of Leads	4, 6, or 8
		Inductance Range	0.2 mH-80 mH
		* Drive chute down in con-liti	a listed. Dower must be evelod to resume operations
	" Drive snuts down in conditions liste		s listeu. Power must be cycleu to resume operations.

