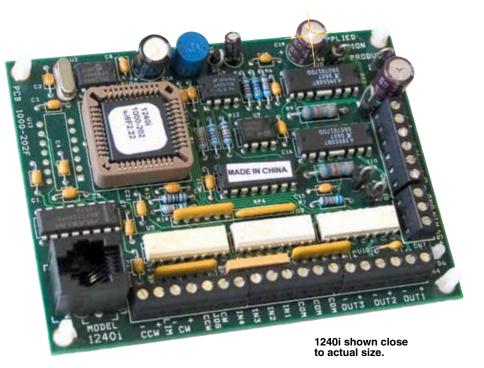
PROGRAMMABLE STEP MOTOR INDEXER/DRIVE MICROSTEPPING 1.2 A, 40 Vdc



- Precise Pulse Width Modulation Switching Amplifiers Providing Up to 1.2 A per Phase and Microstepping to 50,800 Steps Per Revolution
- Accepts 12 to 42 Vdc Power Supply
- Powerful, Flexible, Easy to Use Indexer
- Connects by a Simple Cable to Your PC for Programming (Cable Included)
- Microsoft Windows™-Based Software for Easy Setup and Programming
- Eight Inputs for Interacting with the User and Other Equipment
- Three Outputs for Coordinating External Equipment
- External Trigger I/O is Optically Isolated, 5 to 24V, Sinking or Sourcing Signals; PC/MMI Port is RS232
- 76.2 x 101.6 x 16.5 mm (3 x 4 x 0.65") Overall Dimensions
- Optional Man Machine Interface (MMI) Allows Operator to Enter Distances, Speeds, Cycle Counts and More
- CE Compliant

The 1240i is a programmable step motor driver suited for a wide range of motion control applications. It includes a sophisticated controller integrated with a 48-watt microstepping amplifier. The 1240i includes easy to use software for the rapid development of stand-alone motion control programs. The 1240i can also be commanded in real time from a host PC or



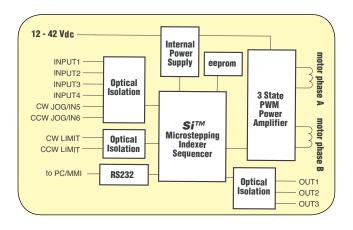
PLC, using the Si Command Language[™]. For multi-axis applications, up to four drives (stepper or Servo) can be networked using a single SiNet[™] Hub 444. The 1240i includes 8 optically isolated programmable inputs for triggering, branching, position sensing and end of travel detection. 3 optically isolated programmable outputs can send signals to other electronic devices and activate relays.

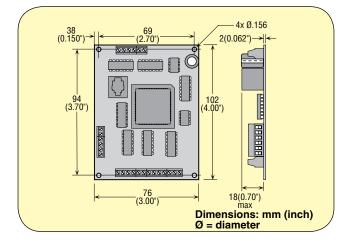
SPECIFICATIONS

Amplifiers: Dual H-bridge, 3 state, pulse width modulated (PWM) switching at 25 KHz. 0.2 to 1.2 A/phase output current, software selectable; 48 watts maximum output power; automatic idle current reduction (software programmable) reduces current to motor when idle; minimum motor inductance is 0.8 mH

Power Supply: Accepts 12 to 42 Vdc power supply, 1.2 A typical max load **Inputs:** 5 to 24 Vdc, optically isolated; 2200 Ω internal resistance; can be configured for sinking (NPN) or sourcing (PNP) signals **Outputs:** Optically isolated; 5 to 24 Vdc, 100 mA max

Microstepping: 13 software selectable resolutions; steps per revolution with 1.8° motor: 2000, 5000, 10,000, 12,800, 18,000, 20,000, 21,600, 25,000, 25,400, 25,600, 36,000, 50,000, 50,800; waveform: pure sine Motion Update: 12,800 Hz Physical: Constructed on 2 mm (0.063") thick printed circuit board; four mounting holes, 4 mm (0.156") diameter Overall size: 76.2 x 101.6 x 16.5 mm (3 x 4 x 0.65") Weight: 68.3 gm (2.4 oz) Ambient Operating Temperature: 0 to 50°C (32 to 122°F) Connectors: European style screw terminal blocks Power Supply and Motor: 6 position Signal Input/Output: 19 position Wire Size: 16 to 28 AWG Agency Approvals: CE compliant to EN55011A, EN50082-1(1997)





ACCESORIES INCLUDED Programming software Programming cable

OPTIONAL ACCESSORIES

Hub 444: Network up to 4 drives

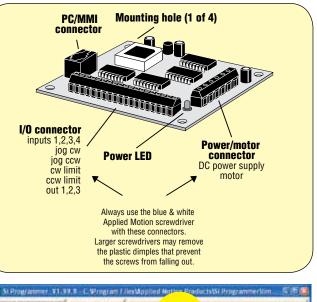
MMI-01: Stand-alone operation

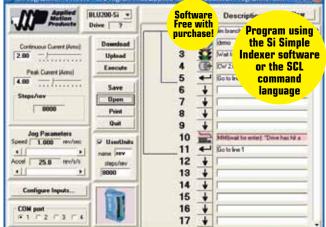
Multi-Axis Systems:

Operator Interface:

Power Supply (Required for Drive Operation):

Recommended: OMPS150A24, 24 Vdc, 6.3 A





Si Programmer™

OMPS150A24 shown smaller than actual size. Visit omega.com/ps_series

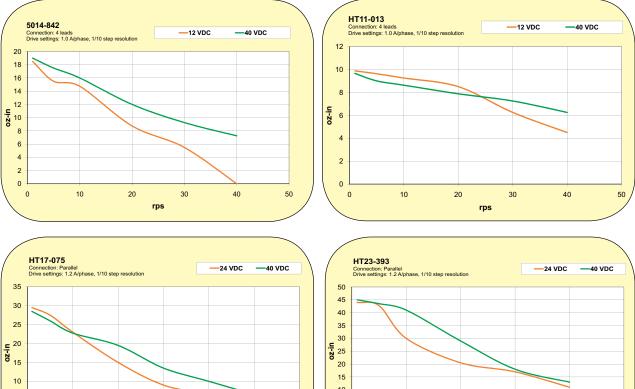
MMI-01 shown smaller than actual size. Visit omega.com/mmi-01

HUB 444 with DIN rail shown smaller than actual size. Visit omega.com/hub444

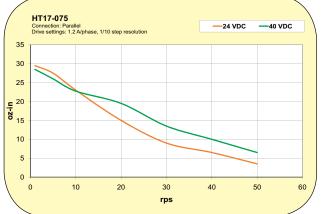
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ENTER THE FLOLU RATE

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TORQUE-SPEED CURVES FOR RECOMMENDED MOTORS





To Order Visit omegamation.com/1240i for Pricing and Details

MODEL NO.	DESCRIPTION		
1240i	Programmable step motor indexer drive		
Ordering Example: 1240i programmable stop meter drive			

Ordering Example: 1240i, programmable step motor drive.

RECOMMENDED MOTORS FOR 1240i

MODEL NO.	DESCRIPTION
OMHT11-013	NEMA 11 step motor, 15 oz-in holding torque
OM5014-842	NEMA 14 step motor, 26 oz-in holding torque
OMHT17-075	NEMA 17 step motor, 62.8 oz-in holding torque
OMHT17-275	NEMA 17 step motor, 62.3 oz-in holding torque
OMHT23-393	NEMA 23 step motor, 76.6 oz-in holding torque
OMHT23-593	NEMA 23 step motor, 79.3 oz-in holding torque

Ordering Example: OMHT23-393, high torque step motor with 76.6 oz-in holding torque. Visit omega.com for additional stepper motor information.

ACCESSORIES		Order motors separately,
MODEL NO.	DESCRIPTION	see below
MMI-01	Operator Interface	for details
OM-CONV-USB	USB to RS232 interface converter	
OM-PL-USBS	USB to RS232 converter; works with Windows Vista and Windows 7	
OMPS150A24	Stepper drive power supply, 24 Vdc, 6.3 A	
POWER CORD-SE	AC power cord with stripped end termination	
SI-PROG-CBL	Replacement programming cable (comes with drive)	
DRIVE-CBL	Replacement MMI and/or HUB communications cable (comes with MMI-01 and BUB 444)	
DSUB-9-MF	DIN rail interface module, 9-pin	
DSUB-9-MF-CBL	DSUB cable, 9-pin, 2 m (6.6'), male/female connectors	