

SPECIFICATIONS

OVERVIEW

Micro-stepping Controller(s) in a single, low cost integrated package complete with internal 85-264 VAC power supply. Control 1-3 axis from a single ½ rack mount device. Or, daisy-chain up to 15 remote DC devices.

Single-axis DC Models are network ready.

FEATURES

Speed:

100kHz step rate per axis.

Motor Driver:

3A/axis @ 24V nominal, peak current scalable in 50mA increments. 36V and 48V versions also available for increased performance. 6 Amp drive available in both Integrated AC and remote DC versions.

Motion Control:

Velocity or Position control. Missed step or stall detection without encoders on select models. Encoder option(s) on select models.

Software:

Up to 20 set points for position control via simple ascii commands. Networked devices can be synchronized to 100 µSec by issuing broadcast set points "go to" commands.

Motion Control Products



Integrated Package

1-3 axis micro-stepping driver(s) and controller(s) with integrated 100-250W power supply. ½ Rack mount with 85-264VAC input. Single communications interface controls up to 3 motors.

Standard Driver

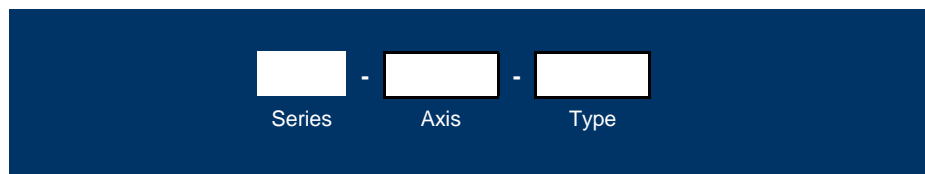
48V micro-stepping driver with incremental encoder interface, real-time operating system, up to 4 limit switch/sensor inputs, and 4 24VDC I/O's.



Advanced Driver

24V micro-stepping driver provides stall detection without the need for encoders. Real-time operating System, 2 limit switch/sensor inputs, and 4 24VDC I/O's.

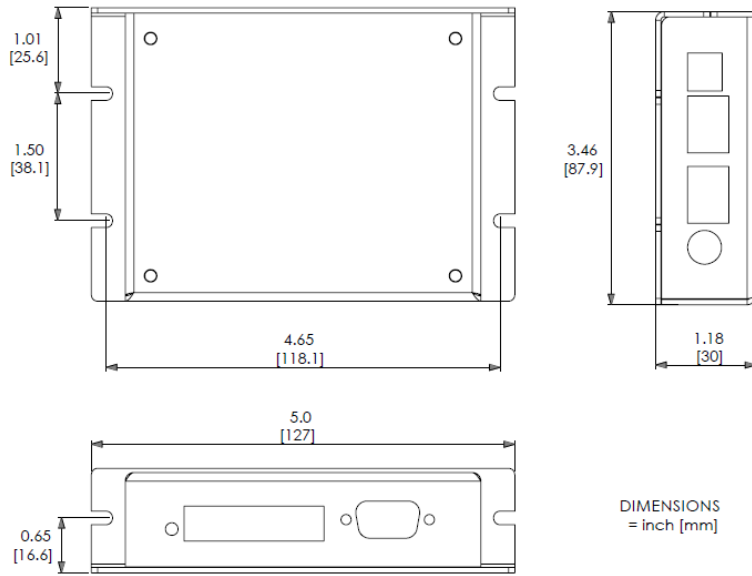
Part Number and Ordering Information



Series		Axis	
Remote DC	90	Single	01
Integrated AC 85-264V	91	Dual	02
Integrated AC 85-264V w/Touch	92	3-Axis	03

Type	
24V Micro-Step Controller w/BEMF stall detect 3A Drive	9903
48V Standard Micro-Step Controller 3A Drive	9904
24V Micro-Step Controller w/BEMF stall detect 6A Drive	9906

Dimensions



ELECTRICAL

Rated Input voltage:

24VDC Nominal for 9903 Type

48VDC Nominal for 9904 Type

24VDC Nominal for 9906 Type

Rated Input protection:

26/50VDC Max, reverse input protection with auto-reset PTC fuse.

AC: 85-264VAC

Auto Thermal Shutdown

COMMUNICATIONS

RS232 Standard

Optional:

USB

Ethernet

RS485

CAN

INPUTS

2x TTL compatible 24VDC inputs

5mA input current

OUTPUTS

2x Open collector TTL outputs.

60V 50mA drive, configurable as source or sink.

SENSOR INTERFACE

Up to 4x optical sensors with 10mA drive current. Dedicated 5V and return pins for each sensor.

ENVIRONMENTAL

90% Humidity non-condensing

70°C max operating temperature

RELIABILITY

MTBF:

>10,000 hours

Approvals:

CE electromagnetic compatibility

RoHS

Accessories

Cable, Motor Drive w/encoder interface, 6 ft.	71-06-0912
Cable, Motor Drive w/encoder interface, 8 ft.	71-08-0912
Cable, Motor Drive, 6 ft.	71-06-0904
Cable, Motor Drive, 8 ft.	71-08-0904
Cable, Communications, RS232, 91/92 Series, 8 ft.	71-08-0004
Cable, Communications, RS232, 90 Series, 8 ft.	71-08-0005

Motors

Size	Stack	A/Phase	H. Torque	Winding	P/N Standard	P/N w/Encoder
NEMA 23	1	0.62	112	Series	81-18-4412	82-18-4412
NEMA 23	1	2.5	112	Parallel	81-18-4425	82-18-4425
NEMA 23	2	1.5	155	Series	81-18-6415	82-18-6415
NEMA 23	2	2.5	155	Parallel	81-18-6425	82-18-6425
NEMA 23	3	1.5	254	Series	81-18-8415	82-18-8415
NEMA 23	3	2.5	254	Parallel	81-18-8425	82-18-8425
NEMA 23	4	3	396	Series	81-18-2430	82-18-2430
NEMA 23	4	4.2	396	Parallel	81-18-2410	82-18-2410

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Toll Free: 800-227-8059 Tel: 650-964-3323 Fax: 650-964-6153 Email: vacman@huntvac.com