



SPECIFICATIONS

OVERVIEW

Micro-stepping controller(s) with dynamic current control in a single, low cost integrated package, complete with internal 85-264 VAC power supply. Control 1-3 axis from a single ½ DIN 3U rack mount device. 6 axis version available in 19" 3U rack mount.

FEATURES

Speed:

50kHz 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

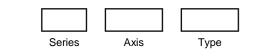


Integrated Touchscreen Stepper Motor Controller

1-3 axis micro-stepping driver/controller with integrated 100-250W power supply. 3U Rack mount (1/2 DIN) with universal 85-264VAC input. Control 1-3 motors via 4.3" color touchscreen. Select or edit recipes for autonomous control sequences.

NOW WITH ADAPTIVE TORQUE CONTROL – Dynamically delivers loaddependent motor current.

Part Number and Ordering Information



Series		
Integrated AC 85-264V	91	Single
Integrated AC 85-264V w/Touch	92	Dual
Integrated AC 85-264V 19" Rack Mount	93	3-Axis

Туре	
Micro-Step Controller Adaptive Torque Control 3A Drive	9903
Standard Micro-Step Controller 3A Drive	9904
Micro-Step Controller Adaptive Torque Control 6A Drive	9906

01

02

03

ELECTRICAL

Rated Input voltage: 24VDC Nominal for 9903 Type

24VDC Nominal for 9904 Type 48VDC Nominal for 9906 Type Rated Input protection:

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

AC: 85-264VAC

Auto Thermal Shutdown

COMMUNICATION

RS232 Standard

Optional:

USB

Ethernet

RS485

CAN

INPUTS

4x 24VDC compatible inputs OUPUTS

2x Open collector TTL outputs. 60V 50mA drive, configurable as source or sink.

SENSOR INTERFACE

Fused 5VDC @ 100mA sourced on 2-pins.

Fused 24VDC @ 100mA sourced on 2-pins.

3-Channel Encoder Interface with integrated 5VDC power.

ENVIROMENTAL

90% Humidity non-condensing

70°C max operating temperature

RELIABILITY

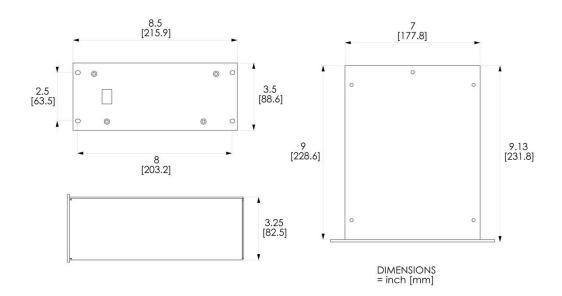
MTBF:

>10,000 hours

Approvals:

CE electromagnetic compatibility RoHS

Dimensions



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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