

## HIGH PERFORMANCE DIGITAL SERVO MOTOR CONTROLLER



Moog's high-performance digital servo motor controller is designed specifically for naval applications. The controller is designed for shipboard environments and to comply with electrical requirements. The circuitry and control algorithms have been designed to ensure smooth operation and minimal system noise. The navy's affordability needs were also included in the design. Custom tuning of the control parameters to meet

customers applications can be completed if required. Custom Controller Housing design as desired, including packaging within pressure tolerant vessel for subsea use. Custom input and output filtering options available as required.

### KEY FEATURES

- Power range 0.6 kW to 10 kW per axis
- Designed to be scalable
- Can be provided in 50+ kW range
- Easily tuned to match system performance needs
- Multiple mounting options available, including industry standard racks



# HIGH PERFORMANCE DIGITAL SERVO MOTOR CONTROLLER

## PERFORMANCE

Features	Specifications
Ambient temperature	0 °C to 50 °C (Operating)/ -40 °C to 70 °C (Storage)
Power conditioning	MIL-STD-1399 Section 300B, Type I, 440V
EMI/EMC	MIL-STD-461 (Naval typical)
Shock	MIL-STD-901D Grade A
Motor control type	3-phase brushless motor control
Input command	RS 485
Processing element	FPGA with onboard memory for reliable high speed loop closure
Output sensors	PWB brake drive, resolver, encoder, 4 analog outputs, 4-differential analog inputs-motor temperature

# MOOG

### AMERICAS

navalsystems@moog.com  
www.moog.com/defense



Moog Space and Defense

### AUSTRALIA

Info.australia@moog.com  
www.moog.com.au



Moog Inc.



@Moog\_Inc

### EUROPE

defenceeurope@moog.com  
www.moog.com/defence



@Moog.Inc

The appearance of U.S. Department of Defense (DoD) visual information does not imply or constitute DoD endorsement.

Equipment described herein falls under the U.S. Export Administration Regulations and is subject to licensing requirements under either the ITAR or the EAR.

©2024 Moog, Inc. All rights reserved.

Product and company names listed are trademarks or trade names of their respective companies.

Form 500-1386 0324