

Product Specification 03324

Dyna 2000 & 2500





Linear Actuators

DESCRIPTION

The Dyna 2000 and Dyna 2500 linear actuators provide accurate precise positioning with a minimal number of moving parts. Many of the moving parts normally associated with electric actuators are eliminated, prolonging the MTBF (mean time between failure).

The actuator design employs the principle of variable reluctance. This simple design of a proportional electric solenoid has a sliding armature whose magnetic force is proportional to the input coil current.

These actuators are easy to install by mounting near the fuel system and direct connecting to the fuel control rod or lever. In most installations, the normal rotary-torotary connection is eliminated, resulting in a more trouble-free and accurate control system.

The actuator is suitable for installation on diesel, gasoline, or natural gas engines with fuel system force requirements of less than 13 pounds (58 N) of force.

SPECIFICATIONS

TYPICAL APPLICATIONS

- Speed governing
- Generator sets
- Forklift trucks
- Power carts
- Off-road vehicles
- Pump sets
- Pleasure boats
- Wood chippers

Available Models: Dyna 2000—

- DYNC-10202-000-0-12—12 Vdc, 0.25 ft-lb (0.34 J) output
- DYNC-10202-000-0-24—24 Vdc, 0.25 ft-lb (0.34 J) output

Dyna 2500-

- DYNC-10502-000-0-12—12 Vdc, 0.50 ft-lb (0.68 J) output
- DYNC-10502-000-0-24—24 Vdc, 0.50 ft-lb (0.68J) output

All electric

- Fast response
- Small & compact
- Two moving parts
- Spring return to minimum fuel
- Mounts in any position
- Precise
 repeatability
- Meets INR & EMP for moderate tactical battlefield environment

	Dyna 2000	Dyna 2500	
Work	0.25 ft-lb (0.34 J)	0.50 ft-lb (0.68 J)	
Force	6.5 lbF (28.9 N)	13.0 lbF (57.8 N)	
Output Stroke	0.775–0.825 inch (19.68–20.96 mm)		
Weight	2.5 lb (1.1 kg)	3.8 lb (1.7 kg)	
Nominal Steady State Current2.5	5 A (12 Vdc), 1.0 A (24 Vdc)	2.5 A (12 Vdc), 1.0 A (24 Vdc)	
Max. Current @ Stall @ 24 °C5.4	4 A (12 Vdc), 3.0 A (24 Vdc)	5.9 A (12 Vdc), 3.0 A (24 Vdc)	
Max. Current @ Stall @ 125 °C 3.9	A (12 Vdc), 2.0 A (24 Vdc)	4.2 A (12 Vdc), 2.0 A (24 Vdc)	
Nominal Response Time to Travel 63% of Stroke:			
in ON Direction	0.05 second		
in OFF Direction	0.032 second		
Operating Voltage			
Ambient Operating Temperature	Derature –65 to +250 °F (–54 to 121 °C)		
Mechanical Vibration	5 to 500 Hz, Curve L, per US MIL-STD-810C		
Sealing	Oil, water, and dust resistant		
Connection 18 AWG (0.8 mm ²) lead	nnection 18 AWG (0.8 mm ²) leads with min. length of 3 inches (76 mm) with insulated tab		
terminal per AMP P/N 2-52013-2. Mates with insulated receptacle per AMP P/N 2-520184-2.			



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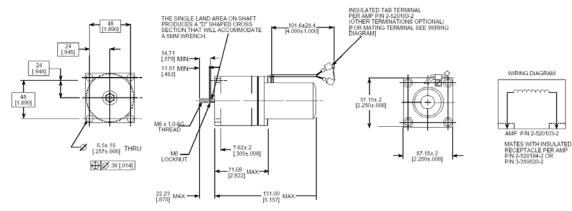
Distributors & Service

Woodward has an international network of distributors and service facilities. For your nearest representative, call the Fort Collins plant or see the Worldwide Directory on our website.

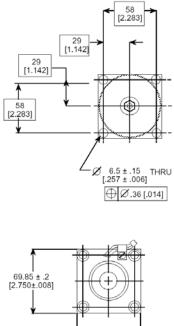
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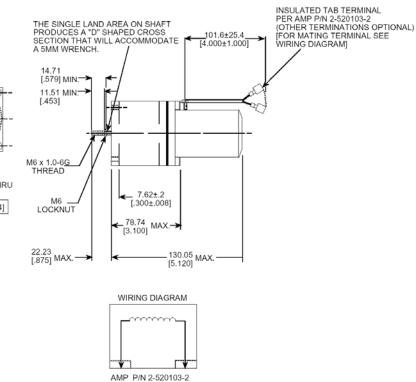


Dyna 2000



69.85±.2

[2.750±.008]



MATES WITH INSULATED RECEPTACLE PER AMP P/N 2-520184-2 OR P/N 3-350820-2



For more information contact:

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