COVID-19 impact: We are still operating and <u>shipping all orders!</u> Physical operations are reduced to a skeleton crew, so for critical requirements, including fighting COVID-19, please contact us so we can identify priorities. Click here for more info.

9.7:1 Metal Gearmotor 25Dx63L mm LP 6V with 48 CPR Encoder



This gearmotor consists of a **low-power**, **6 V** brushed DC motor combined with a **9.68:1** metal spur gearbox, and it has an integrated 48 CPR quadrature encoder on the motor shaft, which provides **464.64 counts per revolution** of the gearbox's output shaft. The gearmotor is cylindrical, with a diameter just under 25 mm, and the D-shaped output shaft is 4 mm in diameter and extends 12.5 mm from the face plate of the gearbox. This gearmotor is also available **without an encoder**.

Key specifications:

voltage	no-load performance	stall extrapolation
6 V	590 RPM, 250 mA	1.2 kg·cm (17 oz·in), 2.4 A

Alternatives available with variations in these parameter(s): gear ratio motor type encoders? Select variant...

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Description Specs (11) Pictures (11) Resources (4) FAQs (2) On the blog (0)

Dimensions

Size: 25D x 63L mm¹

Weight: 95 g

Shaft diameter: 4 mm

General specifications

Gear ratio: 9.68:1

No-load speed @ 6V: 590 rpm

No-load current @ 6V: 250 mA

Stall current @ 6V: 2400 mA

Stall torque @ 6V: 17 oz·in

Motor type: 2.4A stall @ 6V (LP 6V)

Lead length: 8 in²

Encoders?: Y

Notes:

1

Length measurement is from gearbox face plate to back of encoder cap (it does not include the output shaft). See dimension diagram for details.

2 May vary by a few inches.