

# Vehicle DC Motor with Gearbox

This DC motor is designed for vehicle applications and features an integrated gearbox. It operates on a 12V DC power supply, delivering efficient power transmission.



## Product Overview

### VDF44 Vehicle DC Motor

The VDF44 is a compact, high-efficiency DC motor designed specifically for demanding vehicle applications. Featuring an integrated gearbox for optimal power transmission, it delivers 48W of power output with robust torque performance. This unit is constructed from durable materials to ensure long-term reliability in automotive environments.

## Performance Metrics

### Core Performance

**12 V**

Rated Voltage

**48 W**

Power Output

**16 N.m**

Stalling Torque

**14 A**

Stalling Current

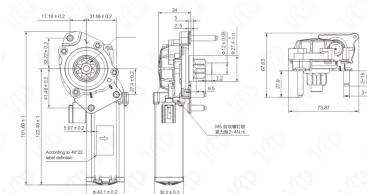
### Operational Data

Parameter	Value
No-load Speed	23 ± 3%
No-load Current	1.5 A max
Load Speed	19 ± 3%
Load Current	4.0 A max

## Installation and Mounting

品名	额定电压	额定功率	空载转速	空载电流	堵转扭矩	堵转电流	尺寸	重量	材料
VDF4001	12V	23.4 W	18.8 RPM	1.4 A	14.3 N.m	4.3 A	40mm	18 mm	14.4 mm

### 规格参数 Specification



Technical diagram detailing the dimensions and mounting specifications of the VDF44 DC motor unit.

### Mechanical Specifications

- Total length: 161.66 ± 1 mm
- Mounting hardware: M5 self-tapping screw
- Tightening torque: 2-4 N.m
- Output shaft diameter:  $\varnothing 12 \pm 0.05$ mm