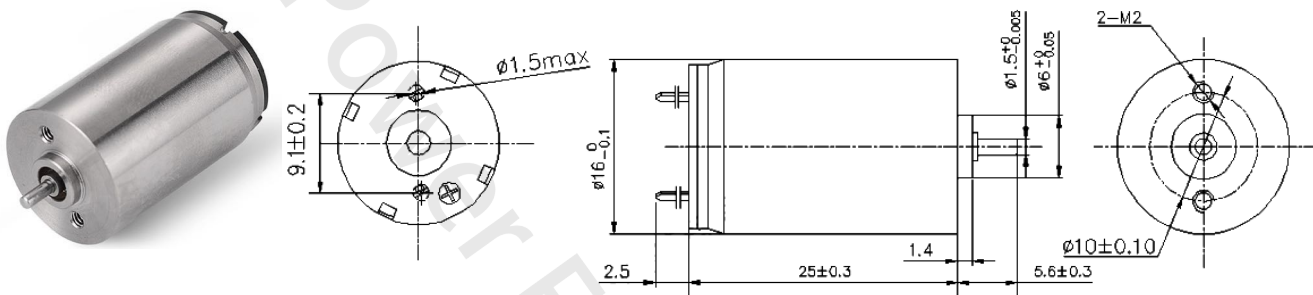


**NEED-FOR-POWER  
MOTOR™****Model No.  
NFP-D1625R**

## 1. Application

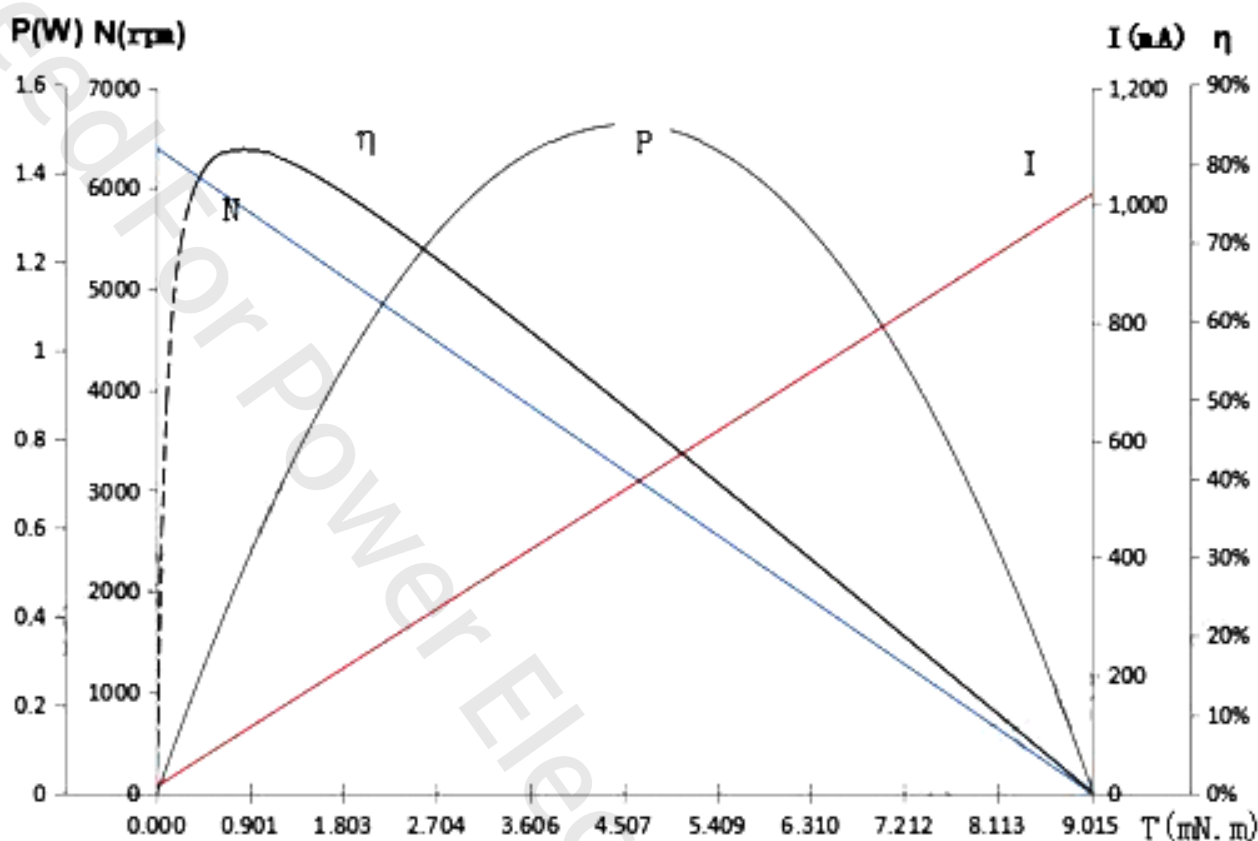
This article regulates the relevant technical data sheet of model NFP-1625R coreless brush motor.



## 2. Motor Parameters

| MODEL               | 32A       | 46A       | 21A       | 01A        |
|---------------------|-----------|-----------|-----------|------------|
| Voltage             | 4.5V DC   | 5V DC     | 6V DC     | 12V DC     |
| Speed constant      | 1724rpm/V | 1652rpm/V | 1067rpm/V | 838rpm/V   |
| Torque constant     | 5.43mNm/A | 5.67mNm/A | 8.77mNm/A | 11.17mNm/A |
| No-load speed       | 7760rpm   | 8260rpm   | 6400rpm   | 10050rpm   |
| No-load current     | 25mA      | 25mA      | 10mA      | 15mA       |
| Nominal speed       | 6360rpm   | 6880rpm   | 5334rpm   | 8930rpm    |
| Nominal torque      | 2mNm      | 2mNm      | 1.5mNm    | 2.12mNm    |
| Nominal current     | 0.39A     | 0.372A    | 0.176A    | 0.2A       |
| Stall torque        | 11.1mNm   | 12.15mNm  | 9mNm      | 18.8mNm    |
| Stall current       | 2.03A     | 2.13A     | 1.02A     | 1.66A      |
| Max efficiency      | 79%       | 81%       | 79%       | 82%        |
| Terminal resistance | 2.22Ω     | 2.35Ω     | 5.9Ω      | 7.23Ω      |

### 3. Motor Performance Curve



### 4. Other Parameters

| KEY FEATURES                        | DATA      |
|-------------------------------------|-----------|
| Ambient temperature                 | -10~40°C  |
| Max permissible winding temperature | 80°C      |
| Max permissible speed               | 20,000rpm |
| Number of the pole pairs            | 1         |
| Number of the commutator segments   | 5         |
| Weight                              | 24.35g    |