

## Frameless Brushless DC Motor

**Built-in type frameless motor unit**  
**Customizable**

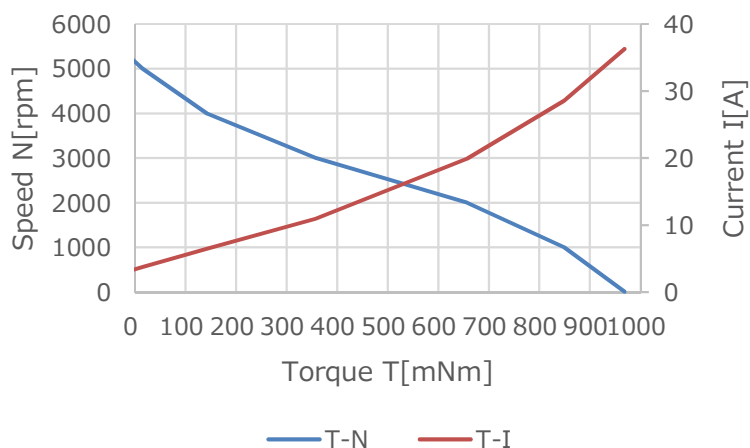
*size, voltage, speed and rotor type (inner/outer)*  
**Hallow-shaft is also available**

### ■ Feature

- Compact size and low weight
- Allows flexibility in your mechanical design
- Circuit unit can be attached
- Please consult for custom solution

Reference data ( $\Phi 42.6\text{mm}$  motor)

TNI (25V)



※The specifications in this catalog are for reference only. Subject to change without notice.

Canon U.S.A.,Inc. Motion Control Products

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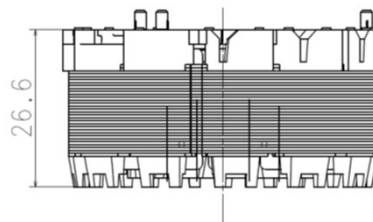
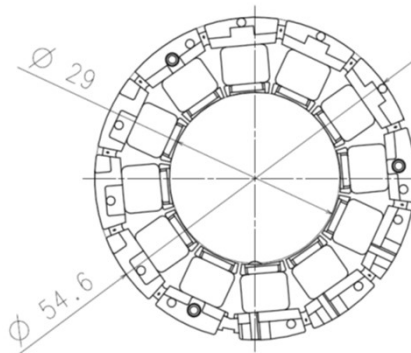
## Φ42.6mm Frameless DC Brushless Motor

### ■ Specifications

- Stator size : Φ42.6mm×L25mm
- Rotor shaft dia. : φ6mm
- Power : 30W
- Weight : approx. 140g

#### Motor Characteristics

Model	BY54
Voltage	24(V)
Rated speed	3000(rpm)
Max continuous current	2(A)
Max continuous torque	100(mN · m)
Torque constant	55(mN · m/A)
Mechanical time constant	8.6(ms)
Electrical time constant	1.8(ms)
Rotor inertia	52(g · cm <sup>2</sup> )
Thermal resistance	5.4(°C/W)
Inductance	1.8(mH)



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