

# DINGS'

Precision Motion Specialist

## BRUSHED CORELESS DC MOTOR PRODUCT CATALOG

Jiangsu DINGS' Intelligent Control Technology Co., Ltd.





Founded in 2008, Jiangsu DINGS' Intelligent Control Technology Co., Ltd. is guided by the philosophy, **"Quality stems from responsibility, and details determine success."**

As a global leader in precision linear motion, DINGS' delivers a comprehensive portfolio of precision stepper, DC and BLDC motors, voice coil motors, lead and ball screw linear actuators, PMSM motors for eco-mobility, and advanced motion controllers — setting new benchmarks in the global motion control market.

## SCALE

300+ Advanced Machining Equipment



40+ Automated Assembly Lines



100+ Precision Testing & Analysis Systems



140+ Patents & Intellectual Properties



## GROWTH

- 2008 Company Founded & DINGS' Brand Established

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- 2010 DINGS' Motion USA Established

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- 2016 DINGS' Korea Established

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- 2019 Joined LEILI Group

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- 2021 Changzhou Intelligent Manufacturing Plant Established  
Listed on China NEEQ Market

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- 2022 Korea R&D Center Established

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- Listed on Beijing Stock Exchange [Stock Code: 920593]

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- 2023 DINGS' Korea Converted to Corporate Entity  
DINGS' Japan Established

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- 2024 New Headquarters & Plant Established  
DINGS' Motion Europe Established

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- 2025 Thailand Manufacturing Facility Established

## CERTIFICATIONS

 <b>9001</b> Quality	 <b>14001</b> Environmental	 <b>45001</b> Health & Safety	 <b>13485</b> Medical Device Quality
 <b>ISO/IEC 17025</b> Laboratory Accreditation	 <b>IATF16949</b> Automotive Quality	 <b>IPMS</b> Intellectual Property	
 <b>CE</b> Safety Standards	 <b>RoHS COMPLIANT</b> Environmental Standards - RoHS	 <b>REACH NPS</b> Environmental Standards - REACH	

## PRODUCT WARRANTY

Warranty period: 1 year from shipment.  
Free repair is provided for defects in materials or workmanship under normal use.

Warranty does not apply to:

- Warranty expiration or damaged/lost nameplates
- Improper installation or operating conditions
- Unauthorized disassembly or modification
- Repairs conducted outside of official service channels
- Force majeure, including natural disasters

DINGS' is committed to quality, reliability, and responsibility — delivering high-performance motion solutions built on precision engineering.

# Content

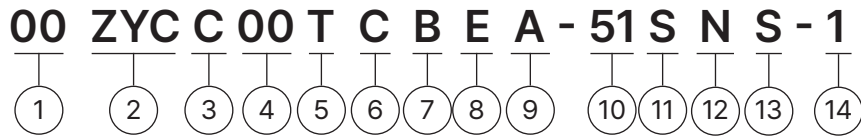
## BRUSHED CORELESS DC MOTOR

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Part number construction	4
8 mm	5
10 mm	7
16 mm	9
25 mm	11
40 mm	13



## Part number construction



① Frame Size

Motor Size(mm)	8	10	16	25	40
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② Product Name

ZYC = Brushed Coreless DC Motor

③ Motor Shape

C = Circular Type

S = Square Type

④ Motor Length

Unit : mm

When the length involves decimal points, use "\_" instead

⑤ Motor Casing

L = Aluminum

T = Stainless steel / Iron

X = No housing

⑥ Brush Type

C = Graphite Brush

P = Metal-Graphite Brush

⑦ Option

EKX = Encoder (X = Encoder Resolution)

B = Brake

GX = Gearbox (X = Gear Ratio)

Note: When selecting multiple options, please arrange them in alphabetical order (e.g., "BEG").

⑧ Structure

E = External type

N = Non-Captive type

C = Electric Cylinder (Captive) type

K = Kaptive type

⑨ Lead Screw Code

Please refer to the lead screw code selection table

⑩ Screw Length / Stroke

Kaptive = stroke distance

Non-captive = total length of screw

External = screw extension length from the mounting flange

⑪ Screw Surface Treatment

T = Teflon coating

S = Standard (No teflon coating)

⑫ End Machining

M = Metric

U = UNC

S = Smooth

C = Customization

N = None

⑬ Nut Style

S = Standard flange nut

A = Anti-backlash nut

C = Customized nut

⑭ Customer Sequence Number

Example

Part Number	16ZYCC40-1
Description	16mm size Brushed Coreless DC Motor Circular type Body length 40mm Customization 001

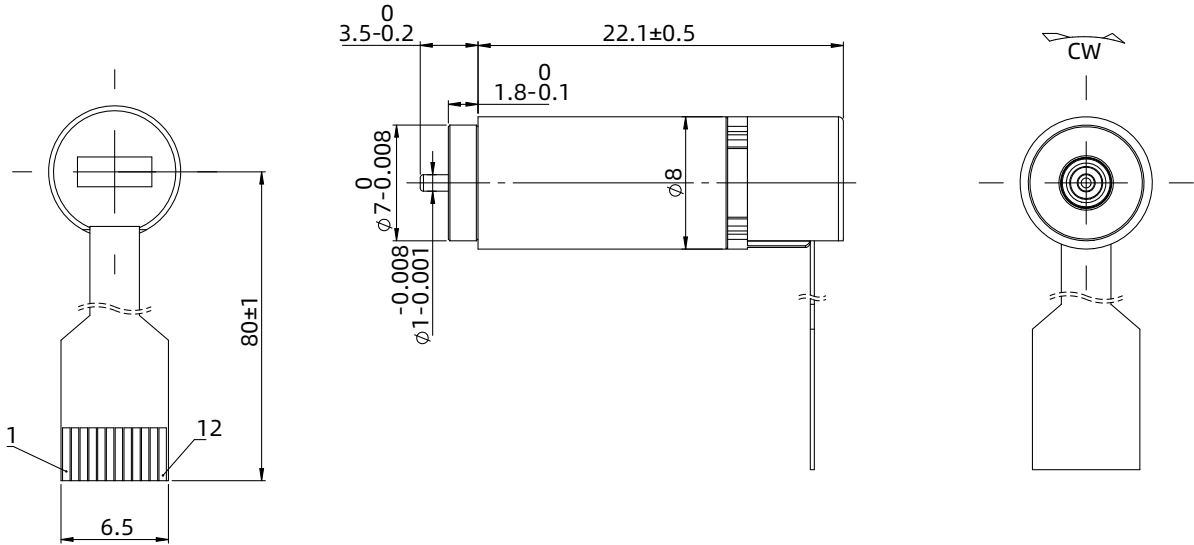
**Motor Characteristics**

Motor part number		8ZYCC24P-1	8ZYCC24P-G16-E256-1
Gear ratio		-	16
Encoder type		-	Magnetic encoder
Pulses per revolution		-	256
Phase		-	3
Rated voltage	V	12	12
No-load speed	RPM	12800	780
No-load current	mA	6	30
Max. continuous torque	mN·m	0.6	6.7
Max. continuous speed	RPM	6300	430
Max. continuous current	mA	80	80
Motor efficiency	%	72	-
Peak torque	mN·m	1.17	-
Peak current	A	0.13	-
Terminal resistance	$\Omega$	78.4	-
Terminal inductance	mH	0.28	-
Torque constant	mN·m/A	8.83	-
Back-EMF constant	rpm/V	1120	-
Speed constant	rpm/mN·m	11400	-
Rotor inertia	g·cm <sup>2</sup>	0.043	-
Mechanical time constant	ms	4.32	-
Insulation class	-	F/155	-
Case thermal resistance (no load)	K/W	115	-
Ambient temperature	°C	-20 ~ +65	-
Max winding temperature (no load)	°C	155	-
Brush type	-	Precious-metal brushes	-
Number of commutator segments	-	5	-
Motor weight	g	5.2	8

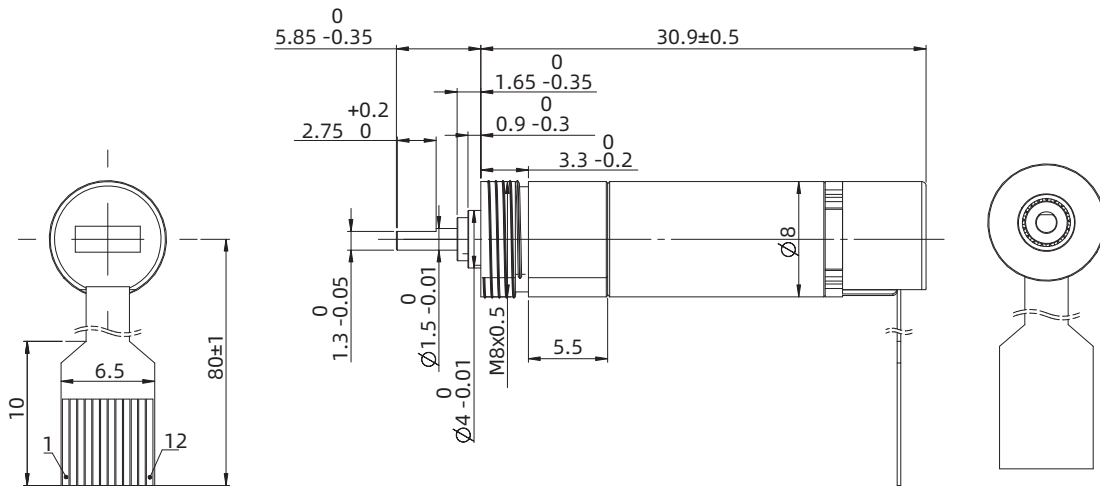
## 8mm series

### Dimensional Drawings

#### 8ZYCC24P-E256-1

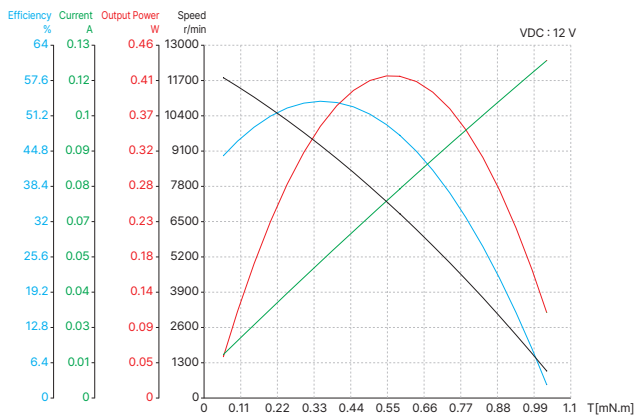


#### 8ZYCC24P-G16-E256-1

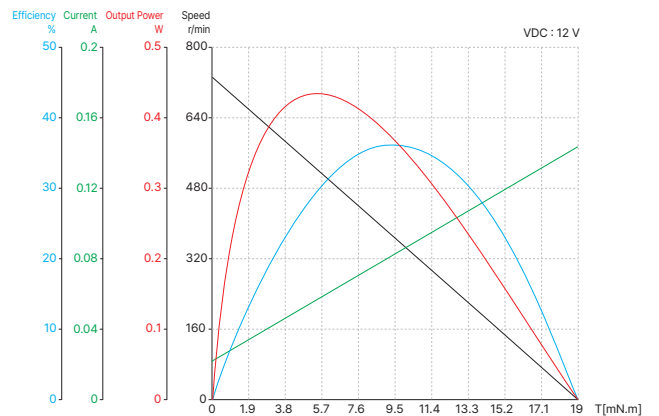


### Torque Performance Curves

#### 8ZYCC24P-1



#### 8ZYCC24P-G16-E256-1



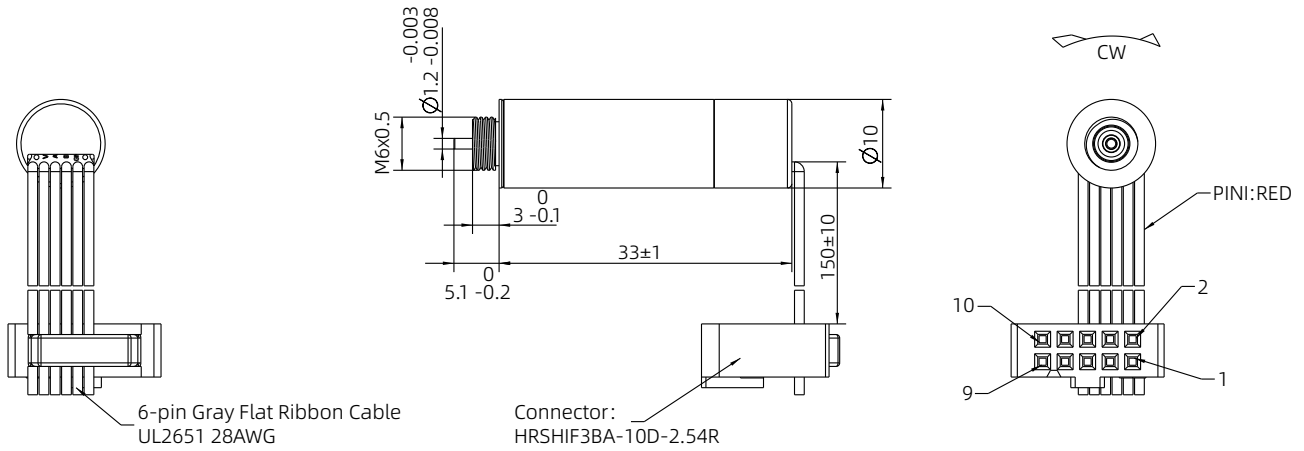
## Motor Characteristics

Motor part number		10ZYCC25P-EK256-1	10ZYCC25P-G18-EK256-1
Gear ratio		-	18
Encoder type		-	Magnetic encoder
Pulses per revolution		-	256
Phase		-	3
Rated voltage	V	12	12
No-load speed	RPM	11300	620
No-load current	mA	12	30
Max. continuous torque	mN·m	1.6	23
Max. continuous speed	RPM	6500	360
Max. continuous current	mA	200	250
Motor efficiency	%	75	-
Peak torque	mN·m	3.2	-
Peak current	A	0.39	-
Terminal resistance	Ω	30.2	-
Terminal inductance	mH	0.56	-
Torque constant	mN·m/A	9.67	-
Back-EMF constant	rpm/V	984	-
Speed constant	rpm/mN·m	3079	-
Rotor inertia	g·cm <sup>2</sup>	0.18	-
Mechanical time constant	ms	5.81	-
Insulation class	-	F/155	-
Case thermal resistance (no load)	K/W	40	-
Ambient temperature	°C	-20 ~ +65	-
Max winding temperature (no load)	°C	100	-
Brush type	-	Precious-metal brushes	-
Number of commutator segments	-	7	-
Motor weight	g	15	21.2

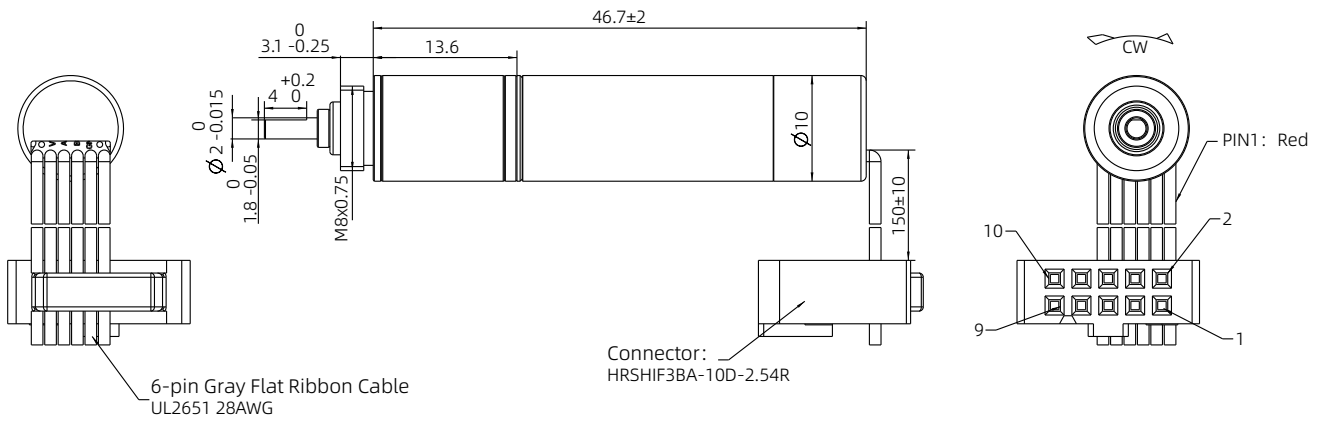
## 10mm series

### Dimensional Drawings

#### 10ZYCC25P-EK256-1

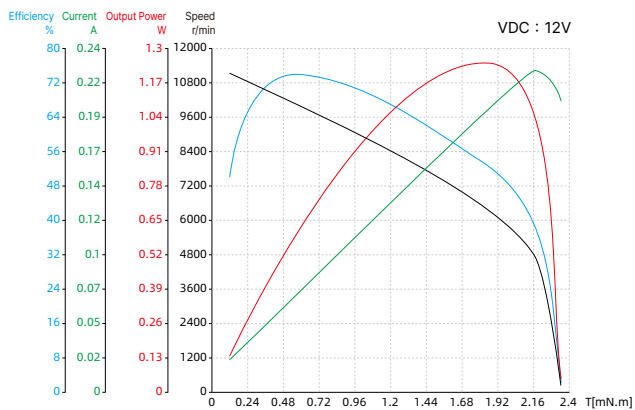


#### 10ZYCC25P-G18-EK256-1

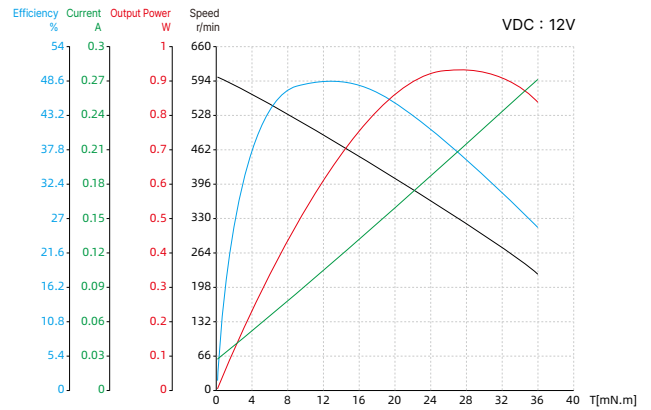


### Torque Performance Curves

#### 10ZYCC25P-EK256-1



#### 10ZYCC25P-G18-EK256-1

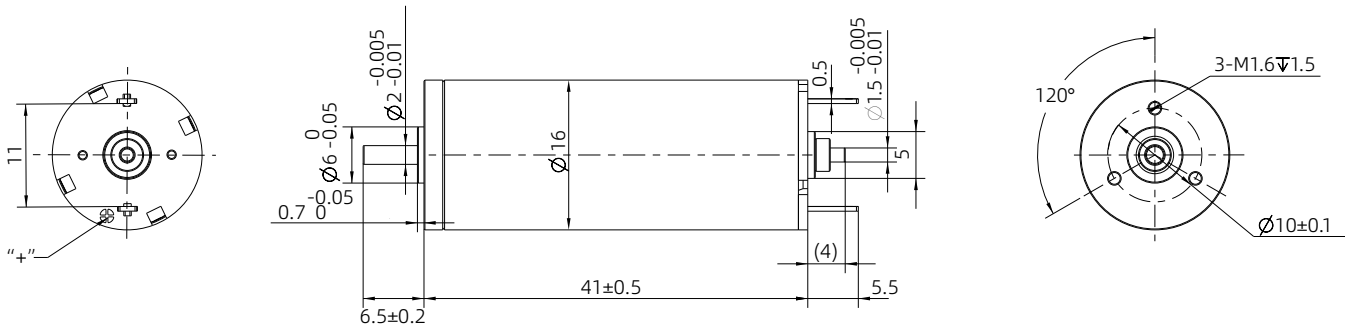


## Motor Characteristics

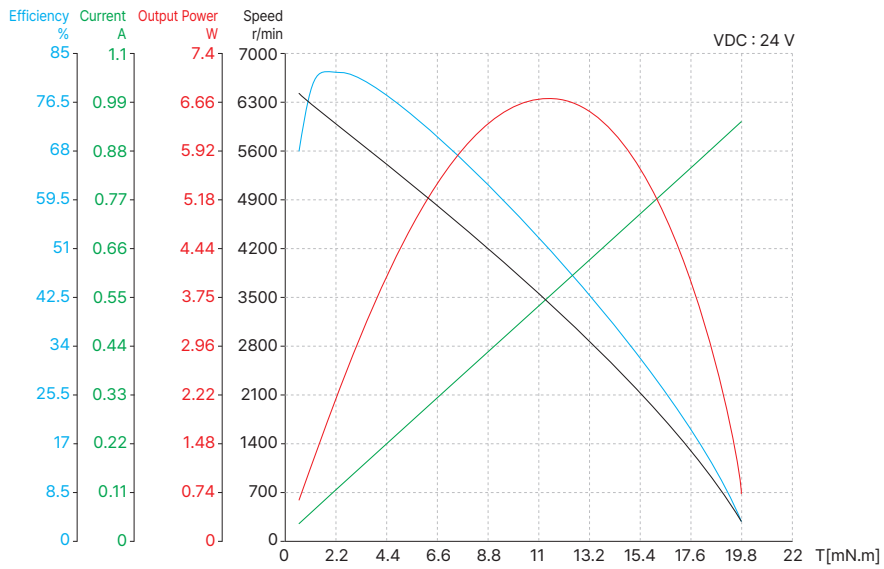
Motor part number		16ZYCC40-1
Rated voltage	V	24
No-load speed	RPM	6600
No-load current	mA	12
Max. continuous torque	mN·m	10.7
Max. continuous speed	RPM	4600
Max. continuous current	A	0.37
Max. efficiency	%	78
Peak torque	mN·m	40
Peak current	A	1.1
Terminal resistance	$\Omega$	22.6
Terminal inductance	mH	1.46
Torque constant	mN·m/A	35.5
Back-EMF constant	rpm/V	274
Speed constant	rpm/mN·m	163
Rotor inertia	g·cm <sup>2</sup>	2.8
Mechanical time constant	ms	5.02
Insulation class	-	F/155
Case thermal resistance (no load)	K/W	21
Ambient temperature	°C	-20 ~ 65
Max. winding temperature (no load)	°C	155
Brush type	-	Graphite brushes
Number of commutator segments	-	7
Motor weight	g	45

## 16mm series

### Dimensional Drawings



### Torque Performance Curves

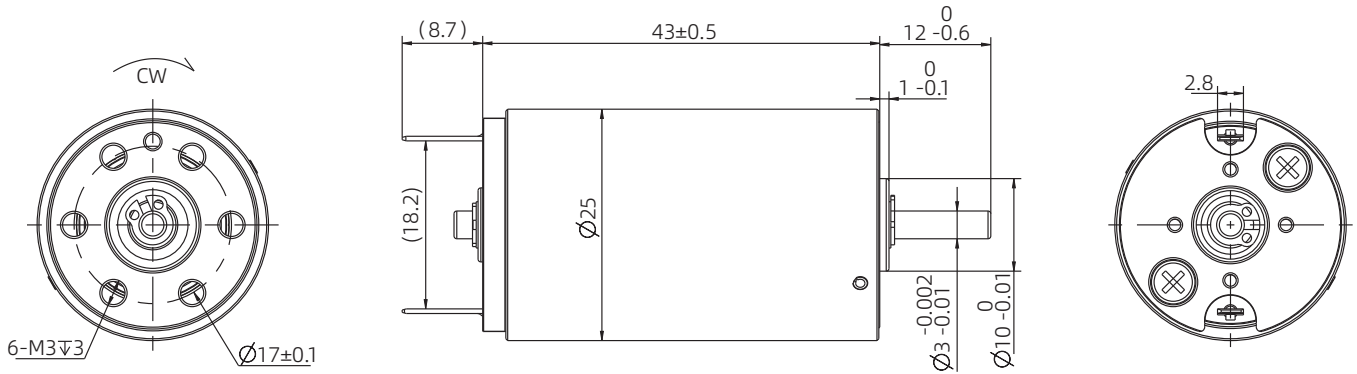


■ **Motor Characteristics**

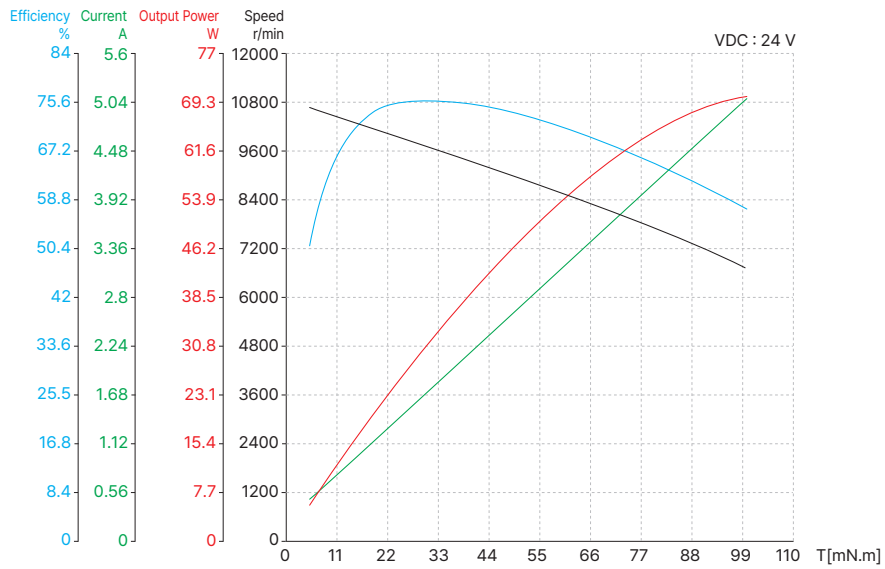
Motor part number		25ZYCC43-2
Rated voltage	V	24
No-load speed	RPM	11000
No-load current	A	0.18
Max. continuous torque	mN·m	30
Max. continuous speed	RPM	10000
Max. continuous current	A	1.8
Max. efficiency	%	88
Peak torque	mN·m	270
Peak current	A	13
Terminal resistance	Ω	1.8
Terminal inductance	mH	0.22
Torque constant	mN·m/A	20.3
Back-EMF constant	rpm/V	473
Speed constant	rpm/mN·m	41.75
Rotor inertia	g·cm <sup>2</sup>	14.9
Mechanical time constant	ms	6.5
Insulation class	-	F/155
Case thermal resistance (no load)	K/W	15
Ambient temperature	°C	-20 ~ 65
Max. winding temperature (no load)	°C	155
Brush type	-	Graphite brushes
Number of commutator segments	-	11
Motor weight	g	105

## 25mm series

### Dimensional Drawings



### Torque Performance Curves

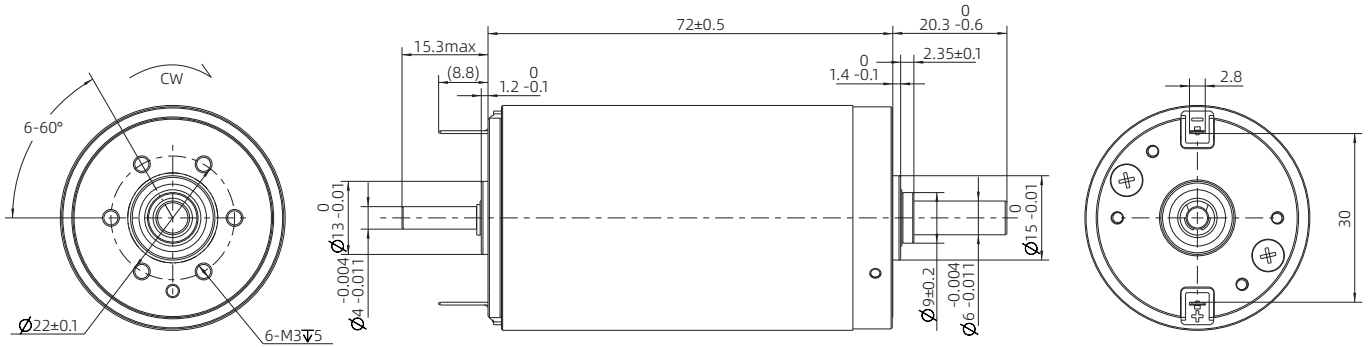


■ Motor Characteristics

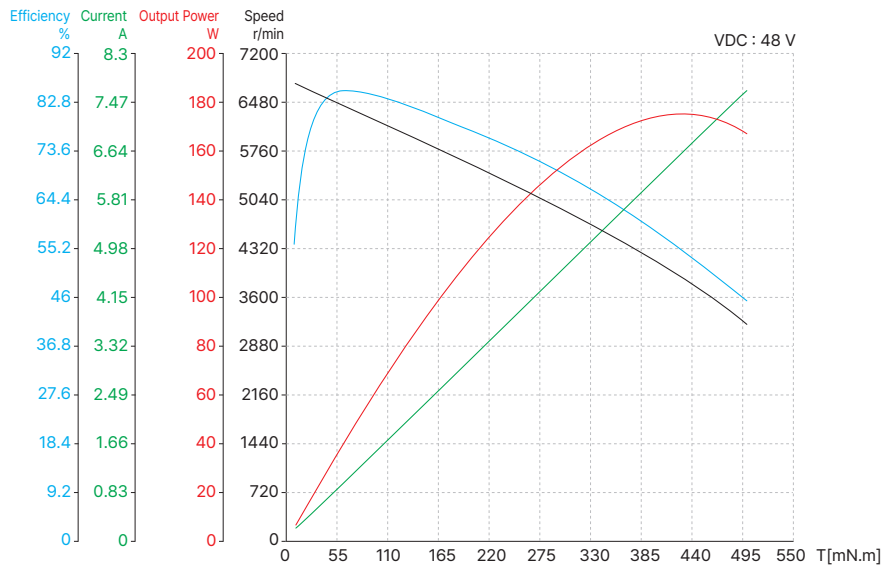
Motor part number		40ZYCC72-2
Rated voltage	V	48
No-load speed	RPM	6600
No-load current	A	0.15
Max. continuous torque	mN·m	200
Max. continuous speed	RPM	5500
Max. continuous current	A	3.8
Max. efficiency	%	85
Peak torque	mN·m	1080
Peak current	A	16
Terminal resistance	Ω	2.94
Terminal inductance	mH	0.98
Torque constant	mN·m/A	65.9
Back-EMF constant	rpm/V	143
Speed constant	rpm/mN·m	6.36
Rotor inertia	g·cm <sup>2</sup>	142
Mechanical time constant	ms	9.6
Insulation class	-	F/155
Case thermal resistance (no load)	K/W	15
Ambient temperature	°C	-20 ~ 65
Max. winding temperature (no load)	°C	155
Brush type	-	Graphite brushes
Number of commutator segments	-	13
Motor weight	g	460

## 40mm series

### ■ Dimensional Drawings



### ■ Torque Performance Curves





ENG Web



Partners Web



YouTube



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