

DINGS'

Precision Motion Specialist

BRUSHED CORELESS DC MOTOR

Jiangsu DINGS' Intelligent Control Technology Co., Ltd.





Since its establishment in 2008, Jiangsu DINGS' Intelligent Control Technology Co., Ltd. has adhered to the business philosophy of **"Quality comes from responsibility, and details determine success or failure."**

The company is committed to becoming a precision motion specialist and a world-class provider of motion control solutions.

DINGS' offers a comprehensive range of products, including precision stepper motors, DC motors, voice coil motors, lead and ball screw linear actuators, PMSM motors for new energy vehicles, and motion controllers.

SCALE

200+ Processing Equipment



20+ Assembly Lines



100+ Testing Instruments



140+ Patents



GROWTH

2008 Company founded and DINGS' brand registered

2010 Established DINGS' MOTION USA

2016 Established DINGS' Korea

2019 Joined LEILI Group

2021 Established Changzhou Intelligent Manufacturing Factory
Listed on China's NEEQ ('New Third Board') Market

2022 Set up R&D Center in Korea

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

2023 Conversion to DINGS' Korea Corporation
Established of DINGS' Japan

2024 Completed Headquarters Smart Manufacturing Base
Established of DINGS' Motion Europe

2025 Establishment of Thailand Manufacturing Base

CERTIFICATIONS



PRODUCT WARRANTY

DINGS' provides a 1-year warranty from the factory shipment date.
If caused by quality issues, free repair is provided.

Free maintenance does not apply in the following cases:

- Warranty period expired
- (including nameplate loss or intentional damage)
- Improper installation, use, or environment
- Unauthorized disassembly or modification
- Repaired by non-accredited personnel
- Damage from natural disasters or force majeure

DINGS' is dedicated to delivering quality, reliability, and responsibility in every product and service.

www.dingsmotion.com

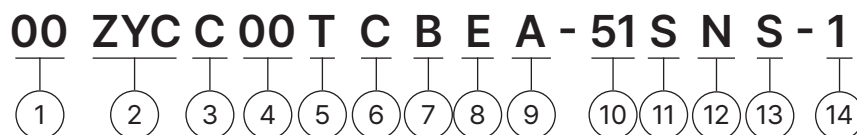
Content

BRUSHED CORELESS DC MOTOR

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



Part Number Construction



① Frame Size

Motor Size(mm)	8	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 Options are not single,

please use in alphabetical order for example, "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 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 = Customize

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

8mm Series

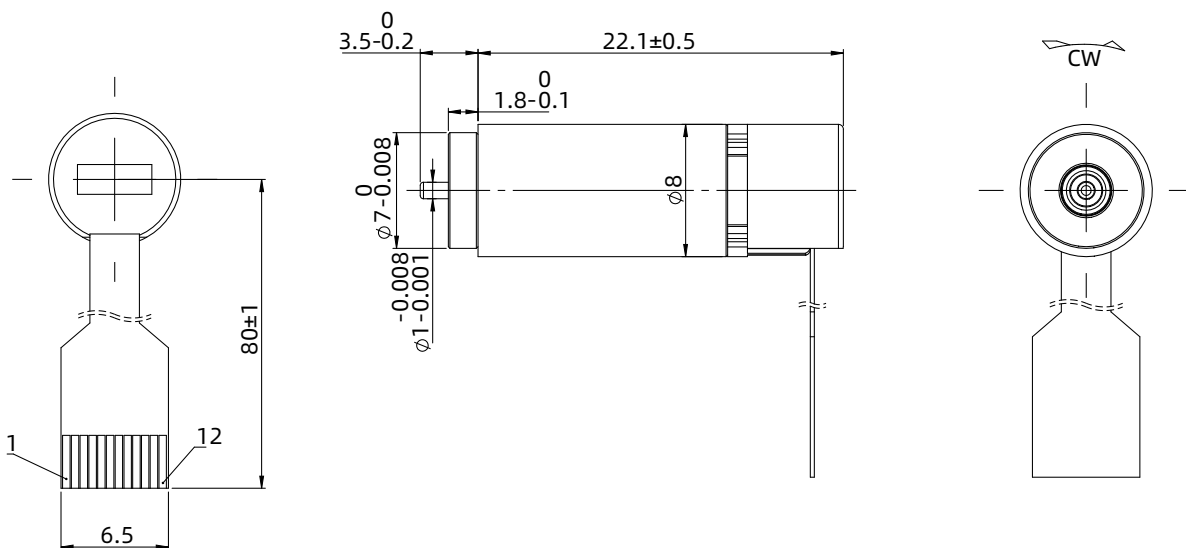
Motor Characteristics

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	Ω	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 ²	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

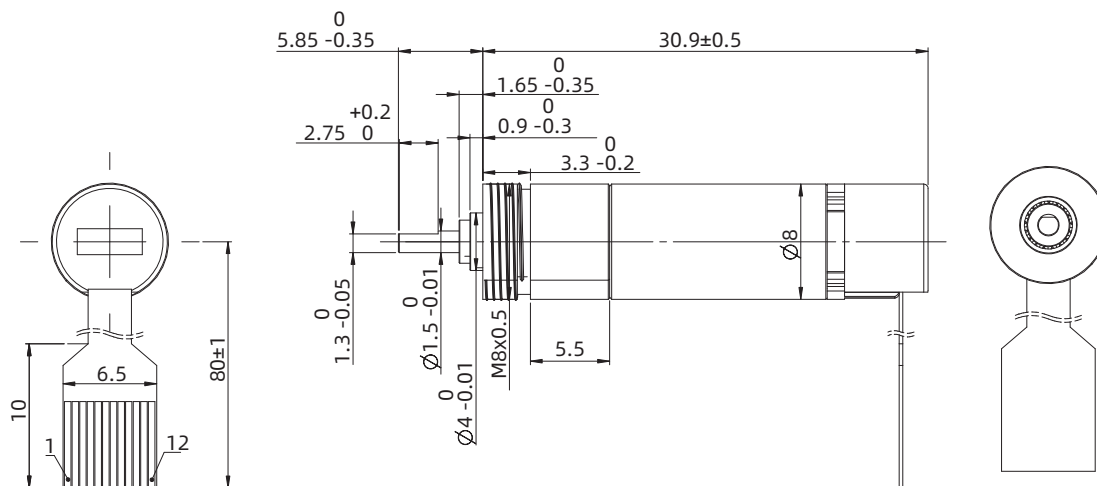
8mm Series

Dimensional Drawings

8ZYCC24P-E256-1

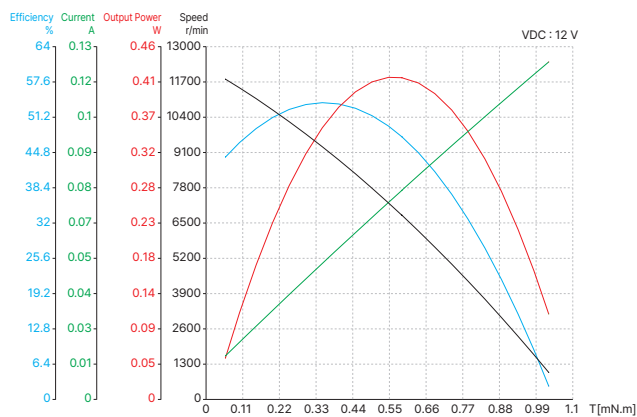


8ZYCC24P-G16-E256-1

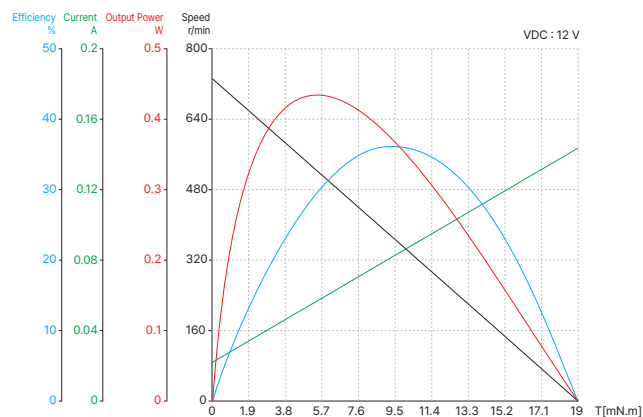


Torque Performance Curves

8ZYCC24P-1



8ZYCC24P-G16-E256-1



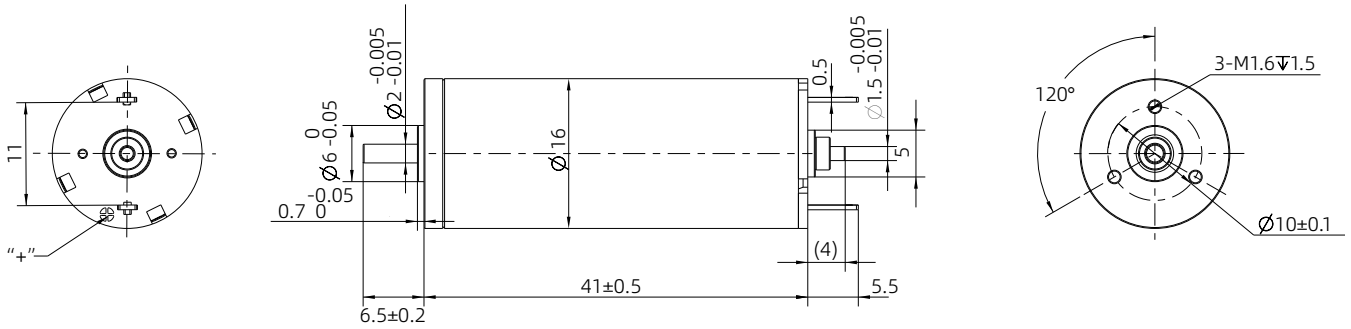
16mm Series

Motor Characteristics

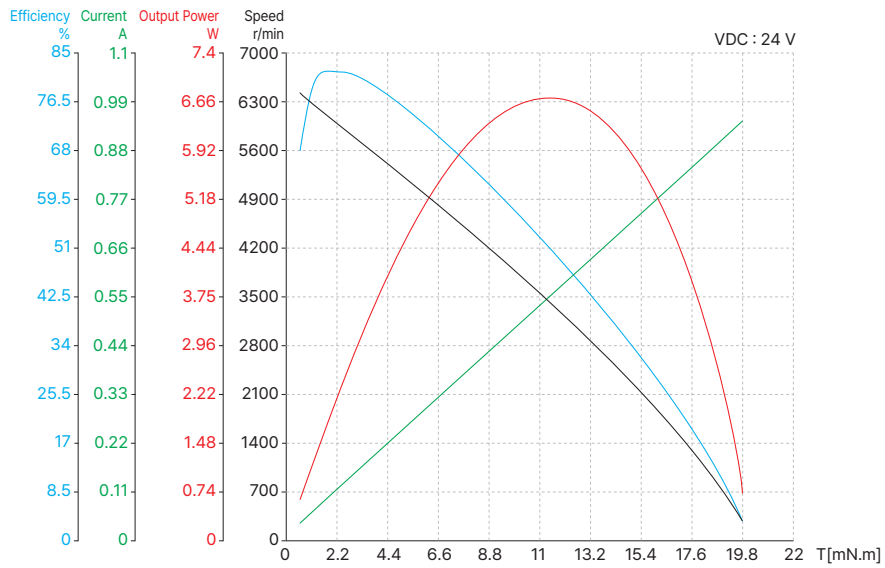
Motor part number		16ZYCC40-1
Rated voltage	V	24
No-load speed	RPM	6600
No-load current	mA	12
Max. continuous torque	mN·M	10.7
Max. continuous speed	RPM	4600
Max. continuous current	A	0.37
Max. efficiency	%	78
Peak torque	mN·M	40
Peak current	A	1.1
Terminal resistance	Ω	22.6
Terminal inductance	mH	1.46
Torque constant	mN.M/A	35.5
Back-EMF constant	rpm/V	274
Speed constant	rpm/mN.M	163
Rotor inertia	g.cm ²	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



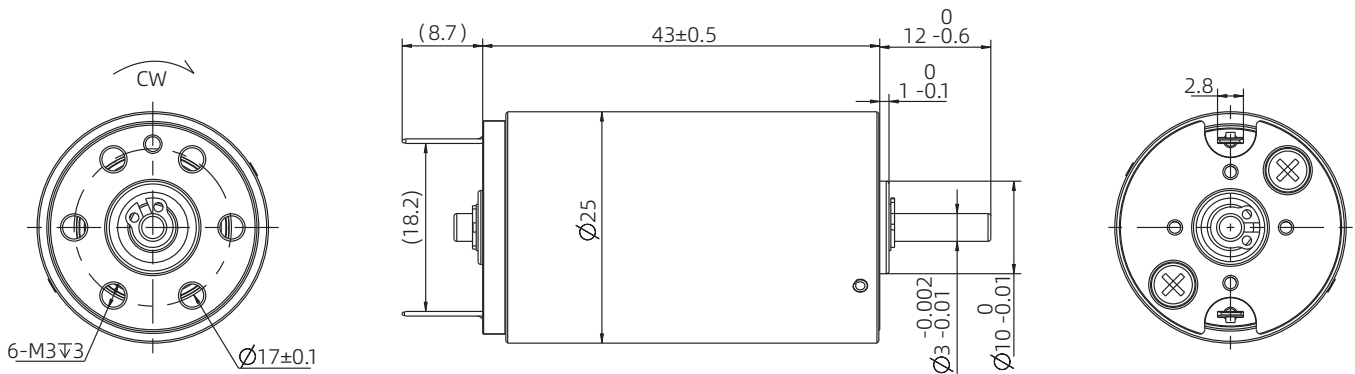
25mm Series

Motor Characteristics

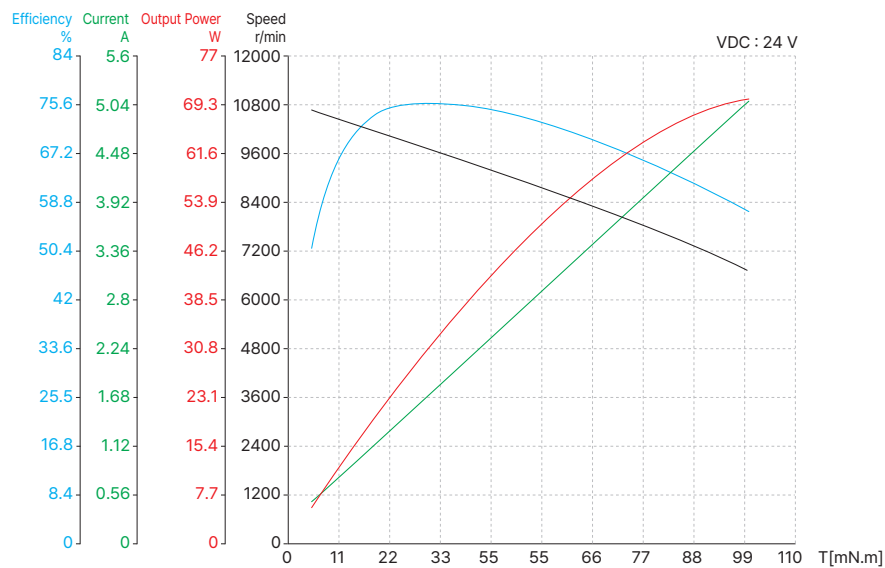
Motor part number		25ZYCC43-2
Rated voltage	V	24
No-load speed	RPM	11000
No-load current	A	0.18
Max. continuous torque	mN·M	30
Max. continuous speed	RPM	10000
Max. continuous current	A	1.8
Max. efficiency	%	88
Peak torque	mN·M	270
Peak current	A	13
Terminal resistance	Ω	1.8
Terminal inductance	mH	0.22
Torque constant	mN.M/A	20.3
Back-EMF constant	rpm/V	473
Speed constant	rpm/mN.M	41.75
Rotor inertia	g.cm ²	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



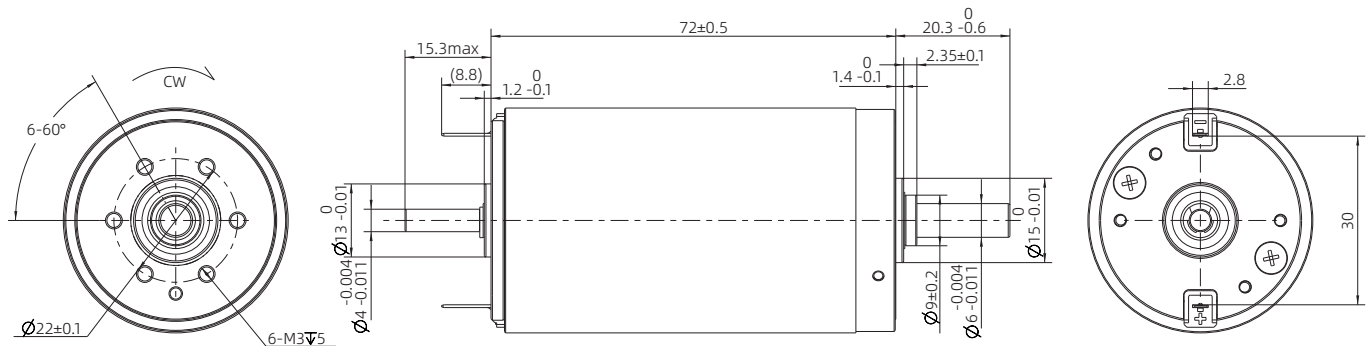
40mm Series

Motor Characteristics

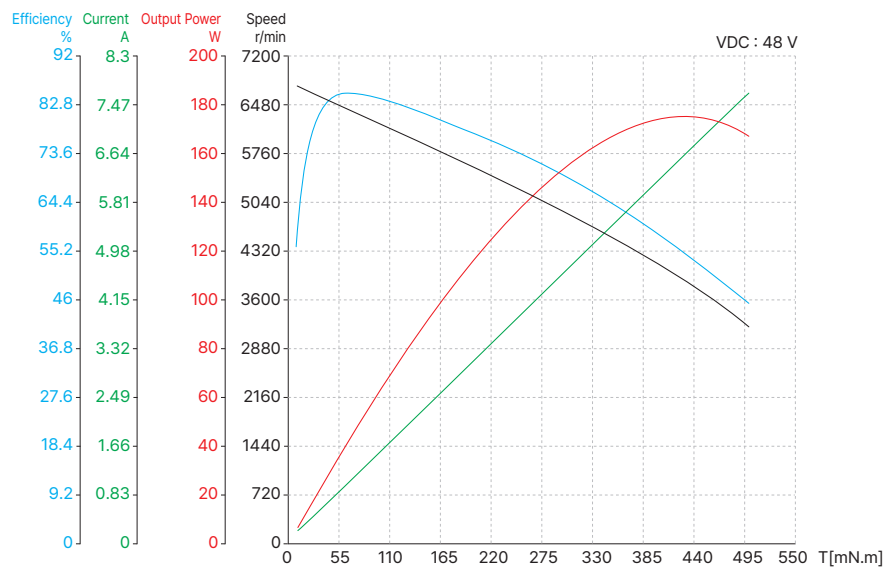
Motor part number		40ZYCC72-2
Rated voltage	V	48
No-load speed	RPM	6600
No-load current	A	0.15
Max. continuous torque	mN·M	200
Max. continuous speed	RPM	5500
Max. continuous current	A	3.8
Max. efficiency	%	85
Peak torque	mN·M	1080
Peak current	A	16
Terminal resistance	Ω	2.94
Terminal inductance	mH	0.98
Torque constant	mN.M/A	65.9
Back-EMF constant	rpm/V	143
Speed constant	rpm/mN.M	6.36
Rotor inertia	g.cm ²	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



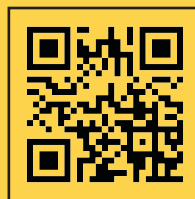
Torque Performance Curves





HEADQUARTER, CHINA

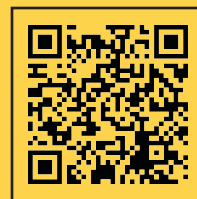
ENG Web



Partners Web



YouTube



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