

DINGS'

Precision Motion Specialist

BRUSHED CORELESS DC MOTOR

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

200+ Advanced Machining Equipment



20+ Automated Assembly Lines



100+ Precision Testing & Analysis Systems



140+ Patents & Intellectual Properties



GROWTH

2008 Company Founded & DINGS' Brand Established

2010 DINGS' Motion USA Established

2016 DINGS' Korea Established

2019 Joined LEILI Group

2021 Changzhou Intelligent Manufacturing Plant Established
Listed on China NEEQ Market

2022 Korea R&D Center Established

Listed on Beijing Stock Exchange [Stock Code: 920593]
2023 DINGS' Korea Converted to Corporate Entity
DINGS' Japan Established

2024 New Headquarters & Plant Established
DINGS' Motion Europe Established

2025 Thailand Manufacturing Facility Established

CERTIFICATIONS



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.

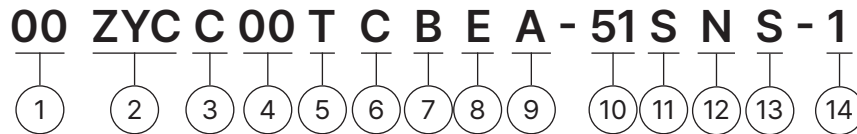
Content

BRUSHED CORELESS DC MOTOR

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



Part Number Construction



① Frame Size

Motor Size(mm)	8	16	25	40
----------------	---	----	----	----

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

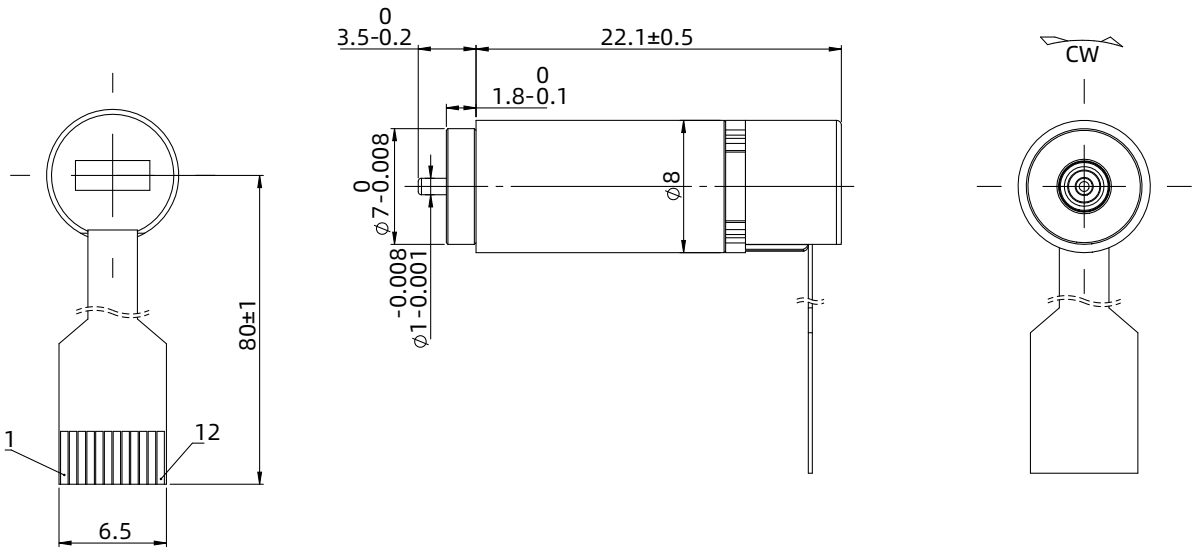
Motor Characteristics

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

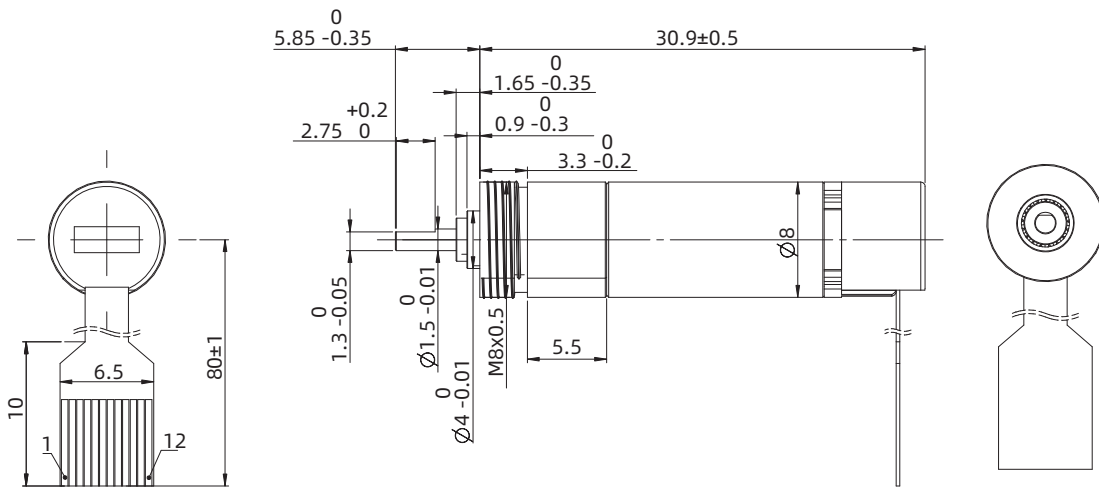
8mm Series

Dimensional Drawings

● 8ZYCC24P-E256-1

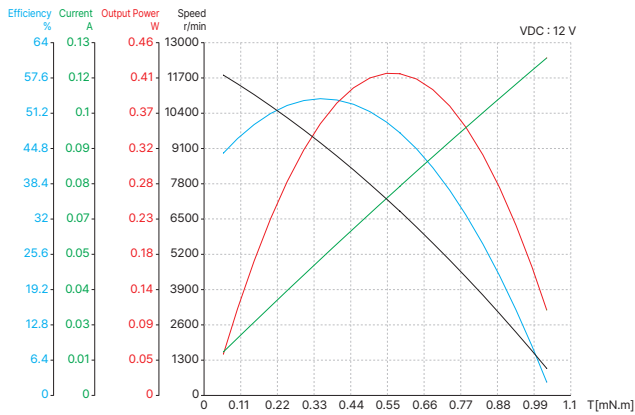


● 8ZYCC24P-G16-E256-1

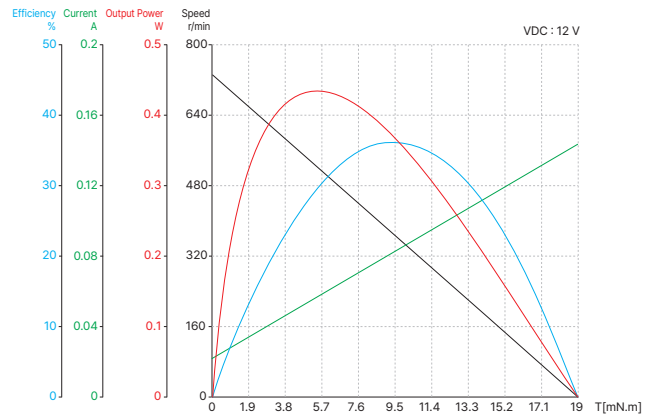


Torque Performance Curves

● 8ZYCC24P-1



● 8ZYCC24P-G16-E256-1



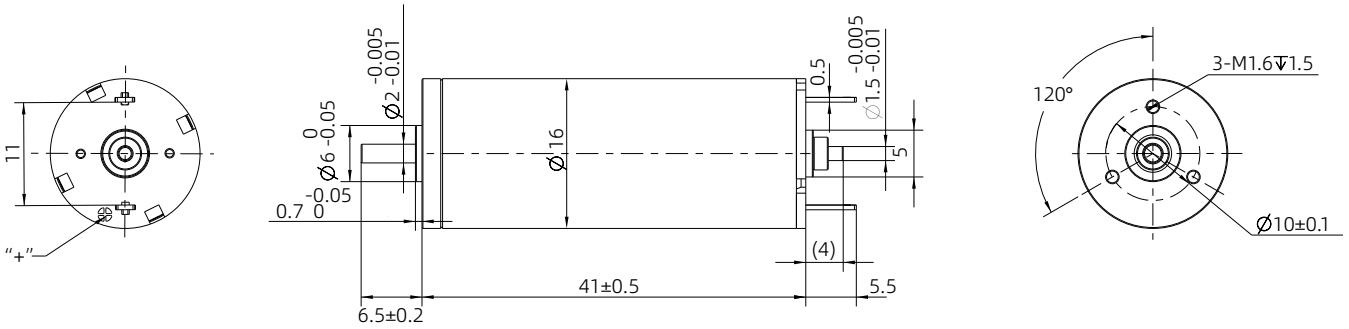
16mm Series

Motor Characteristics

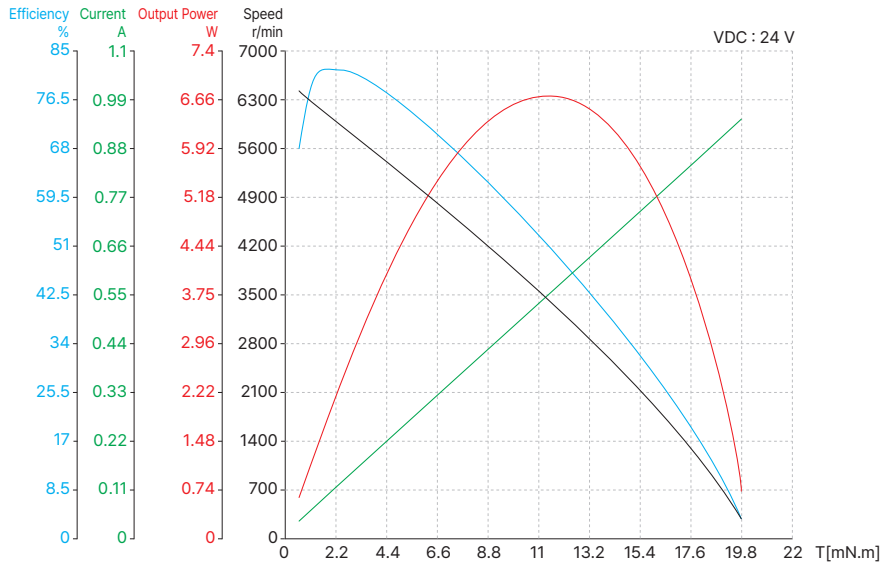
Motor part number		16ZYCC40-1
Rated voltage	V	24
No-load speed	RPM	6600
No-load current	mA	12
Max. continuous torque	mN·M	10.7
Max. continuous speed	RPM	4600
Max. continuous current	A	0.37
Max. efficiency	%	78
Peak torque	mN·M	40
Peak current	A	1.1
Terminal resistance	Ω	22.6
Terminal inductance	mH	1.46
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



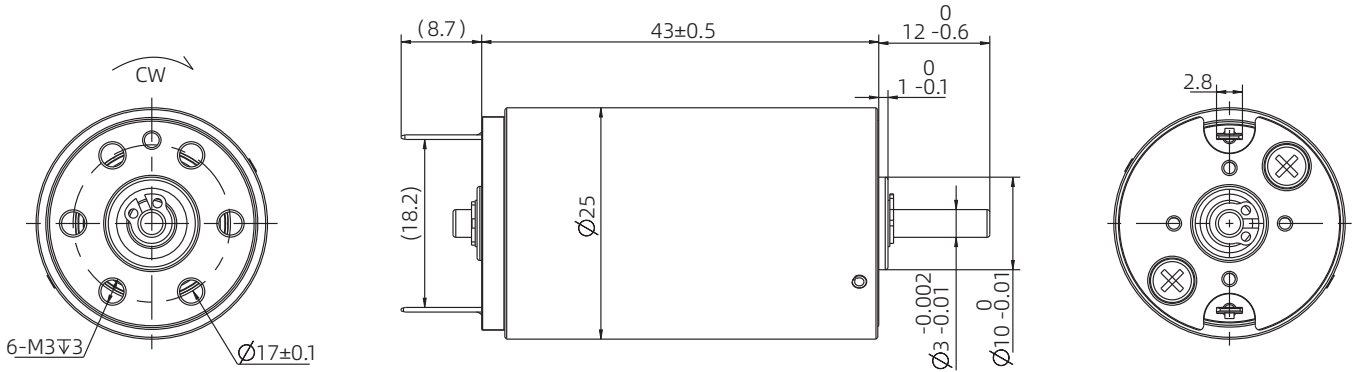
25mm Series

Motor Characteristics

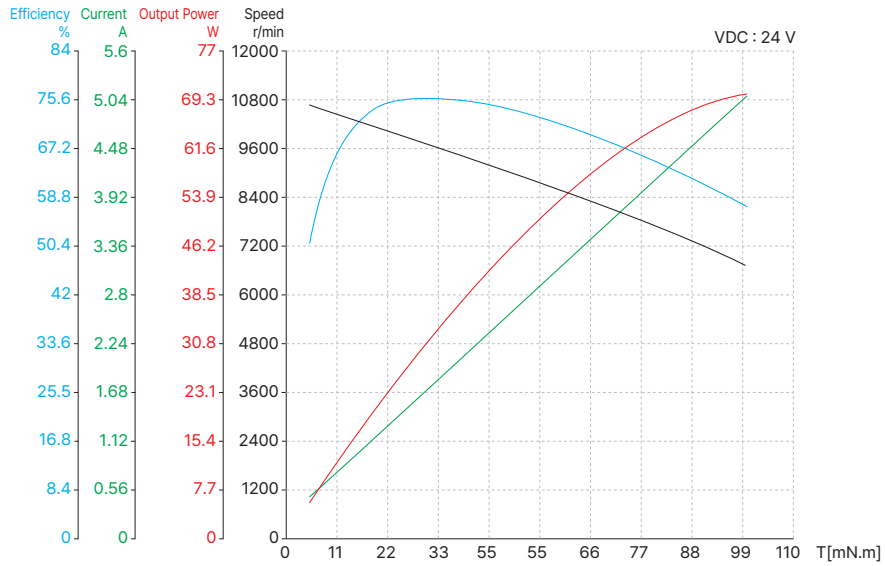
Motor part number		25ZYCC43-2
Rated voltage	V	24
No-load speed	RPM	11000
No-load current	A	0.18
Max. continuous torque	mN·M	30
Max. continuous speed	RPM	10000
Max. continuous current	A	1.8
Max. efficiency	%	88
Peak torque	mN·M	270
Peak current	A	13
Terminal resistance	Ω	1.8
Terminal inductance	mH	0.22
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



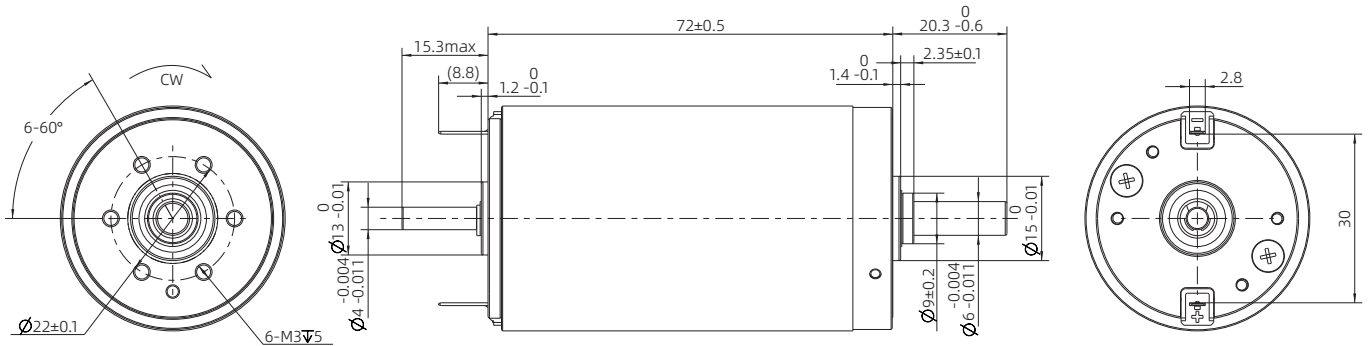
40mm Series

Motor Characteristics

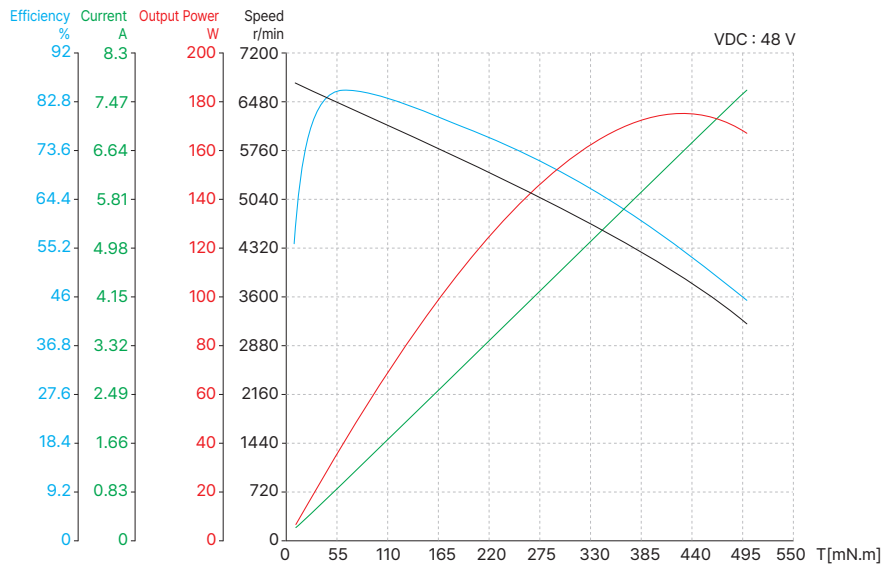
Motor part number		40ZYCC72-2
Rated voltage	V	48
No-load speed	RPM	6600
No-load current	A	0.15
Max. continuous torque	mN·M	200
Max. continuous speed	RPM	5500
Max. continuous current	A	3.8
Max. efficiency	%	85
Peak torque	mN·M	1080
Peak current	A	16
Terminal resistance	Ω	2.94
Terminal inductance	mH	0.98
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

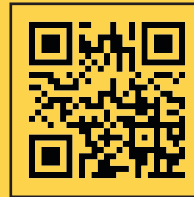


Torque Performance Curves





ENG Web



Partners Web



YouTube



HEADQUARTERS

Jiangsu DINGS' Intelligent Control Technology Co., Ltd.

No. 2850 Luheng Road, Changzhou Economic Development Zone, Jiangsu Province, China

Tel : +86-519-85177826

Fax : +86-519-85177807

E-mail : info@dingsmotion.com

www.dingsmotion.com

GLOBAL MANUFACTURING LOCATION

DINGS' Intelligent Control Technology (Thailand) Co., Ltd.

42/29 Moo 4, Uthai Subdistrict, Uthai District, Phra Nakhon Si Ayutthaya 13210, Thailand

Tel : +66 64-505-9951

SUBSIDIARIES

DINGS' Motion USA

355 Cochrane Circle Morgan Hill,
CA 95037

+1-408-612-4970

sales@dingsmotionusa.com

dingsmotionusa.com

DINGS' Motion Europe

4 Avenue du Grand Trémoutier
44120 Vertou, France

+33-(0)6-41-37-80-07

sebastien@dingsmotion.com

fr.dingsmotion.com

DINGS' Korea Co., Ltd.

C-702, 158 Haneulmaeul-ro, Ilsandong-gu,
Goyang-si, Republic of Korea

+82-31-994-0755

daniel@dingsmotion.com

dingsmotion.kr / dkps.co.kr / en.dkps.co.kr

INTERNATIONAL OFFICES

DINGS' Shenzhen Office

Room 1105, Block C, CIMC Industry Park,
Guangming District, Shenzhen, China

info@dingsmotion.com

DINGS' JAPAN

101, 2-27-18, Nishi-kojiya, Ota-ku, Tokyo
144-0034 JAPAN

+81-90-7730-0034

tsukahara@dingsmotion.com

jp.dingsmotion.com

© DINGS'. All rights reserved

No part of this catalog may be reproduced or distributed without prior written consent from DINGS'. Specifications, features, and designs are subject to change without prior notice for product improvement.

DINGS' reserves the right of final interpretation of this catalog and its products.