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Dyna RECHI CORPORATION

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瑞智精密股份有限公司

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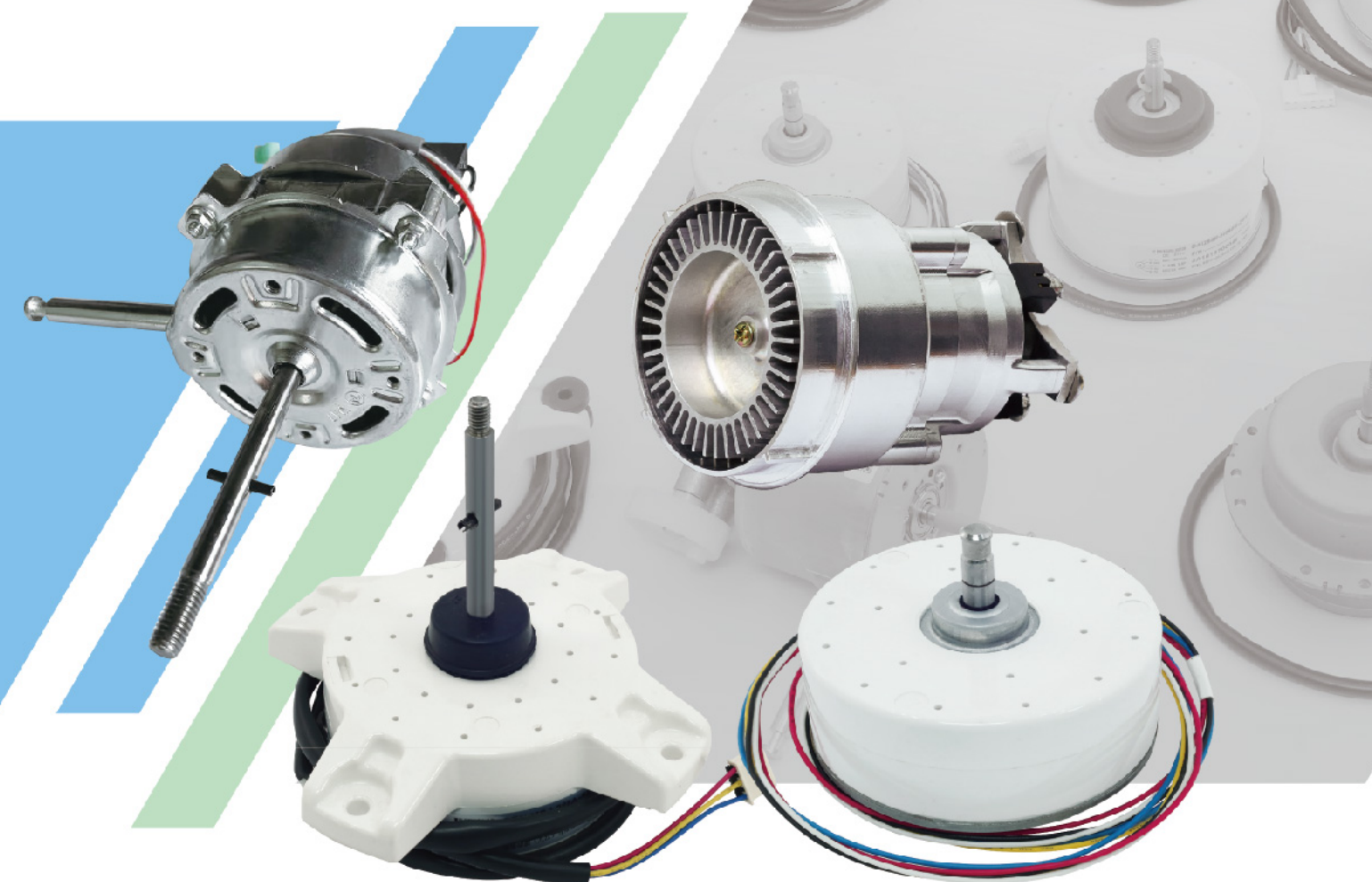
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欲了解更多产品信息，请访问瑞展动能官方网站
For more information, please visit Dyna RECHI website



www.dynarechi.com.tw



BLDC motors, Induction motors, Universal motors, Shaded-pole motors

PRODUCT CATALOG

直流无刷马达 . 感应马达 . 串激马达 . 蔽极马达
产品型录

RECHI GROUP



集团简介 Company Profile

瑞智集团是全球第四大专业压缩机制造大厂，荣获国家产业创新奖、外销杰出奖殊荣。以「追求企业价值极大化、善尽爱护地球的企业责任」为公司使命，同时兼顾着地球的环境与资源，与国际知名企业建立良好战略合作伙伴关系，能够一起创建环保的未来世界。

瑞智公司与中国钢铁公司于2014年主导投资成立瑞展动能股份有限公司，专注于开发及制造高效率超静音的直流无刷马达(BLDCM)，搭配高匹配性的马达驱动控制技术并提供全方位整合服务。瑞展动能将与瑞智集团携手，提供高效节能的产品，并与客户和供货商共创洁净的地球环境。

RECHI Group is one of the top four A/C compressor manufacturing companies in the world. We are awarded National Industrial Innovation Award and Outstanding Exporting Award. RECHI is dedicated to maximizing enterprise value and striving to protect the global environment as our corporate social responsibility. We also form strategic collaboration with many well-known international home appliance brands to create and produce environmentally friendly products for the world.

In 2014, RECHI collaborated with China Steel Corporation (CSC) to invest and establish, Dyna Rechi, which focus on developing and manufacturing highly efficient and low-noise BLDC motors with customized motor-driving control solutions as well as offering total solution services. The synergy of Dyna RECHI and RECHI aims to provide high energy-saving products as well as inspire and join with our customers and suppliers to create a clean and green environment for the earth.



企业文化 Corporate Culture



瑞展动能简介 About us



有鉴于高质高效马达需求日殷，瑞智公司、中国钢铁、福登公司于是在2014年主导投资成立瑞展动能股份有限公司，集三家在马达设计制造超过2 - 30年的马达专家于一堂，志在成为一家专注于高效高质的大型马达制造商，及全方位的马达方案整合服务商的目标迈进，希望能为社会提供高效节能的马达产品，并与客户及供货商共创洁净的地球环境。

瑞展集团拥有双品牌(DynaRECHI与ABLEK)，旗下有2个制造基地，分别位于江西九江与广东东莞，产能超过2千万颗/年；马达种类横跨感应、串激/串激永磁、蔽极、直流无刷，等等；功率范围涵盖50W-10KW。

Owing to high demand of high quality, high efficiency motors (we define it as "green" motors) from the market, in 2014, RECHI joint-ventured with Taiwan based China Steel Corporation (CSC, since 1971) and Ablek Technology Ltd (since 2000) to form DynaRECHI Co. Ltd, in a large scale. The three motor experts with 20-30 years experience, aim to be a key "green" motor manufacturer as well as a total motor solution provider to serve the market, and together with many respectable partners to commit the globe a clean environment.

DynaRECHI group owned two brands, being DynaRECHI & ABLEK. And under her there are 2 production bases across Jiujiang Jiangxi and Dongguan Guangdong, with annual output of 20 million units of motors. Motors range covers Induction Motors, Universal Motors both AC & PMDC, Shaded Pole Motors, and BLDC/ BPM/ PMAC Motors. Power ranges from 50W to 10KW.

Hope to be of help to you. She is your reliable & valuable win-win partner ~

Contents

企业文化 Corporate Culture	01
营运据点 Operation Bases	04
产品应用 The Application of BLDC Motor	05
室内机/空清机直流无刷马达 BLDCM for Indoor A/C Unit & Air Purifiers	07
空调室外机直流无刷马达 BLDCM for Outdoor A/C Unit	09
直流无刷马达应用 Application of BLDC Motors	11
一般用途风扇马达 BLDC Motors for Regular Pedestal Fans	13
交流感应马达应用 Application of AC Induction Motors	17
OD75/95/108 系列 交流感应马达 OD75/95/108 Series AC Induction Motors	19

核心技术力 Technical Capabilities

- 马达设计与电机模拟分析
Motor design & simulation Analysis
- 马达驱动与控制器设计改良
Motor driver & controller design & improvement
- 风扇改善与流体动力分析
Fan improvement & Air fluid analysis

- 1 真圆度量测仪 Roundness tester
- 2 三次元量测仪 Coordinate Measuring Machine
- 3 无回响室 Anechoic room
- 4 风洞试验机 Wind tunnel
- 5 BLDCM生产线 BLDCM production line



虎门厂区 Humen Factory

惠州厂区 Huizhou Factory

青岛厂区 Qingdao Factory

九江厂区 Jiujiang Factory

瑞展动能(九江)有限公司
Dyna Rechi (Jiujiang) Co.,Ltd.



观音厂区 Guanyin Factory

集团营运总部 HEADQUARTERS

瑞智精密股份有限公司
Rechi Precision Co.,Ltd.

瑞展动能股份有限公司
Dyna Rechi Co.,Ltd.



东坑厂区 Dongkeng Factory



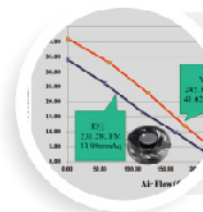
完整的顾客服务 Integral Customer Service



调控软件电机参数
Motor controller software is
programmable / refreshable.



提供方波或弦波控制的解决方案
Provide solution for trapezoidal
and sinusoidal control.



改善系统效率
Improve system overall efficiency.



提供顾客完善的科技化服务
Offer integral technique service
for customers.

产品应用 The Application of BLDC Motor



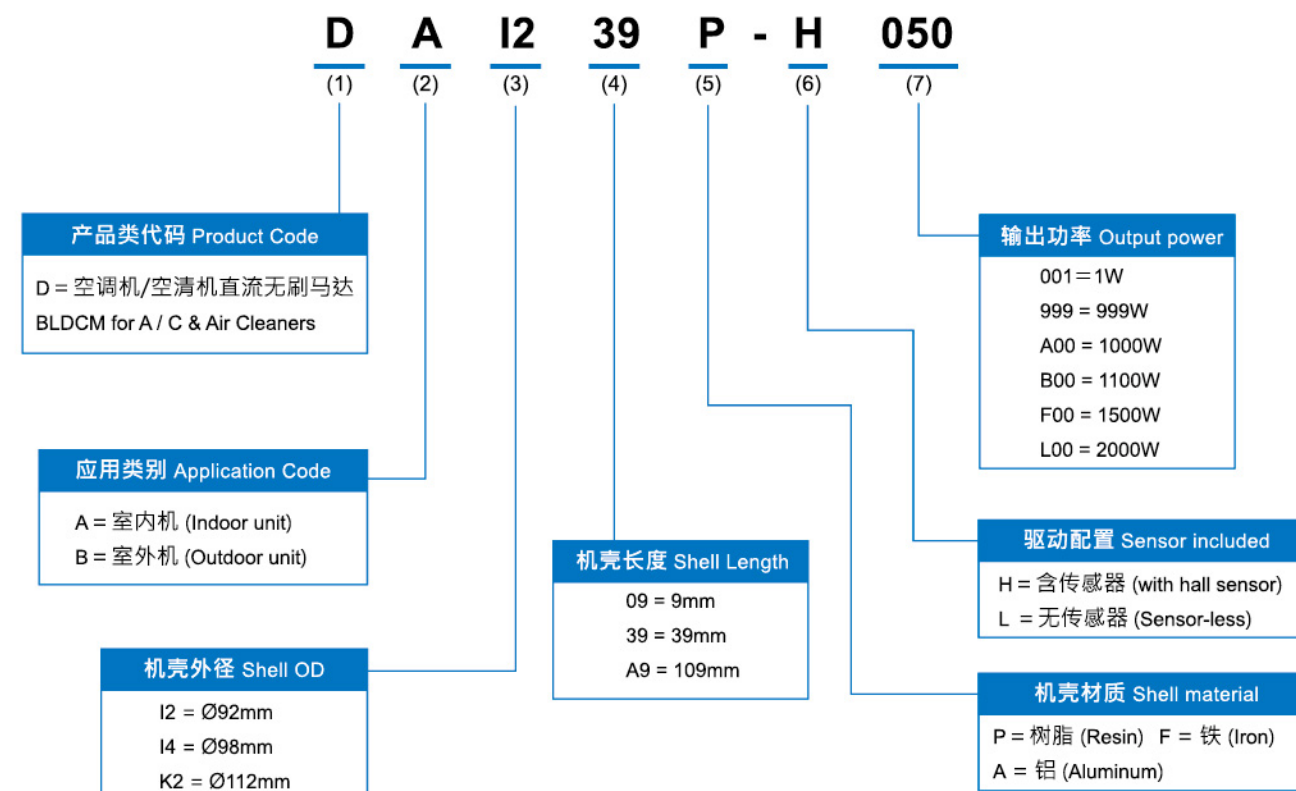
直流无刷马达产品系列 Brushless Direct Current Motor Lineup

定子 Stator OD (mm)	内转式 Inner Rotor(I) 外转式 Outer Rotor(O)	材质 Housing Material	输出功率 Output Power (W)						应用产品 Applications
			50	100	200	400	800	5000	
Ø48mm	O	铁壳 Steel	10~40W						立扇、浴室排气扇、空清机...等 Pedestal Fans, Bathroom Exhaust Fans Air Purifiers...etc.
Ø55mm	O	铁壳 Steel	15~90W						离心扇、吸顶扇、壁式净化器...等 Centrifugal Fans, Ceiling Tile Fans Wall Mounted Air Purifiers... etc.
Ø76mm	I	铁壳 Steel	5~55W						热水器、吸顶扇、水冷扇、车用吊扇...等 Instantaneous Gas Water Heaters, Ceiling Tile Fans, Fans with cool mist, Caravan Ceiling Fans...etc.
Ø88mm	I	塑封 Resin	7~65W	65~90W					空调室内机、空调室外机、空气净化器...等 A/C indoor and outdoor units, Air Purifiers...etc.
Ø106mm	I	塑封 Resin			90~200W				空调室外机、商用空调、柜机、多联机...等 A/C outdoor unit, Commercial A/C, Cabinet A/C, Multi-Split-Type A/C...etc.
Ø32mm	I	铝壳 Al	8~40W						呼吸器风机 Breathing Machine
Ø34mm	I	铁壳 Steel			20~340W				高速风机 Vacuum Cleaner

※ 可依客户需求选择内置或外置式控制板 Inner or external circuit board depends on customer's requirements.

空调 / 空清直流无刷马达 BLDCM for Air Conditioners & Air Purifiers

编码原则 Model Numbering Rules



产品系列 Product Series

系列 Series	应用领域 Application field	输出功率 Output power (W)	转子形式 Rotor type	外观尺寸 Dimension (mm)	定子外径 Stator OD (mm)	外表材质 Housing material
DAI2	室内机 / 空气清净机马达 BLDCM for indoor AC unit & air purifiers	7~63	内转子 Inner R.	Ø92	Ø88	树脂 Resin
DBI2	空调室外机 BLDCM for outdoor AC unit	25~55	内转子 Inner R.	Ø94	Ø88	树脂 Resin

室内机 / 空清机直流无刷马达 BLDCM for Indoor A/C Unit & Air Purifiers

DAI2 Series



■ 应用

- 空调室内机风扇马达
- 空气清净机风扇马达
- 除湿机风扇马达

■ Applications

- Indoor unit of air conditioner
- Air purifiers
- Dehumidifier

■ 特点

- 内置驱动电路，转速反馈。
- 可正反转转向切换工作。
- 连续工作
- E级绝缘
- 体积小、重量轻、噪音低、振动小
- 符合CCC标准

■ Product Characteristics

- Low noise and vibration
- High efficiency and reliability
- Continuous Operation
- Level E Insulation
- CCC Standard Compliant

■ 产品性能

电压 Voltage	DC24V、36V、100V、140V、280V、300V、310V、340V
级数 Pole	8P、10P、14P
线材/Wire Material	铜线/Cooper、铝线/Aluminum

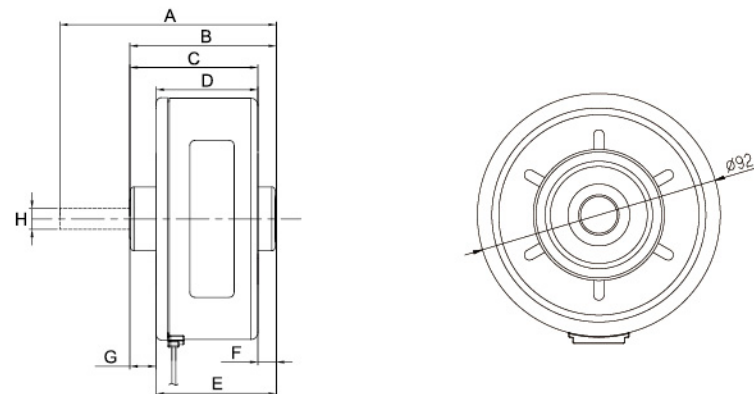
■ Product Performance

典型产品技术参数 Rated Characteristics & Referred Figures

序号 NO.	型号 Model	输出功率 (W)	额定电压 (V)	额定转速 (rpm)	效率 (%)
I	DAI*系列	10-140	100-340	500-2000	70 and above
II	DAI*系列	10-30	24-36	500-1300	70 and above

外形图 Outer Diagram

Fig. A

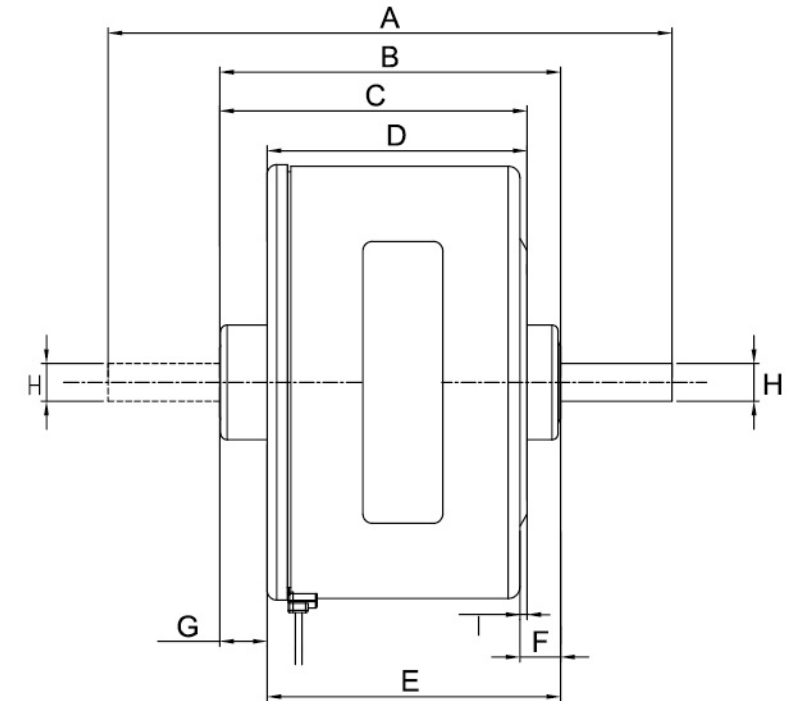


系列 Series	A	B	C	D	E	F	G	H
DAI239	64-220	56	48.9	38.8	45.9	7.1	10.1	8
DAI242	67-220	59	51.9	41.8	48.9	7.1	10.1	8
DAI255	80-230	72.5	65.4	55.3	62.4	7.1	10.1	8

1.单位为mm / Unit : mm

2.橡皮尺寸可以依客户要求定制。 / Rubber Size can be customized

室内机 / 空清机双轴无刷马达 Twin Axes BLDCM For Indoor A/C Unit & Air Purifies



系列 Series	A	B	C	D	E	F	G	H	I
DAI239	89-259	56	48.9	38.8	45.9	7.1	10.1	8	1.5
DAI242	92-262	59	51.9	41.8	48.9	7.1	10.1	8	1.5
DAI255	105-275	72.5	65.4	55.3	62.4	7.1	10.1	8	1.5

1.单位为mm / Unit : mm

2.橡皮尺寸可以依客户要求定制。 / Rubber Size can be customized

空调室外机直流无刷马达 BLDCM for Outdoor A/C Unit

DBI4 Series



应用

- 空调室外机风扇马达
- 窗型空调室内测风扇马达
- 窗型空调室外测风扇马达
- 移动空调风扇马达
- 新风系统用送风马达

Applications

- Outdoor unit of air conditioner
- Windows Type Indoor/Outdoor Air Conditioner
- Portable Air Conditioner
- Fresh Air Ventilation System

特点

- 内置驱动电路，转速反馈。
- 可正反转转向切换工作。
- 连续工作
- E级绝缘
- 体积小、重量轻、噪音低、振动小
- 符合CCC标准

Product Characteristics

- Low noise and vibration
- High efficiency and reliability
- Continuous Operation
- Level E Insulation
- CCC Standard Compliant

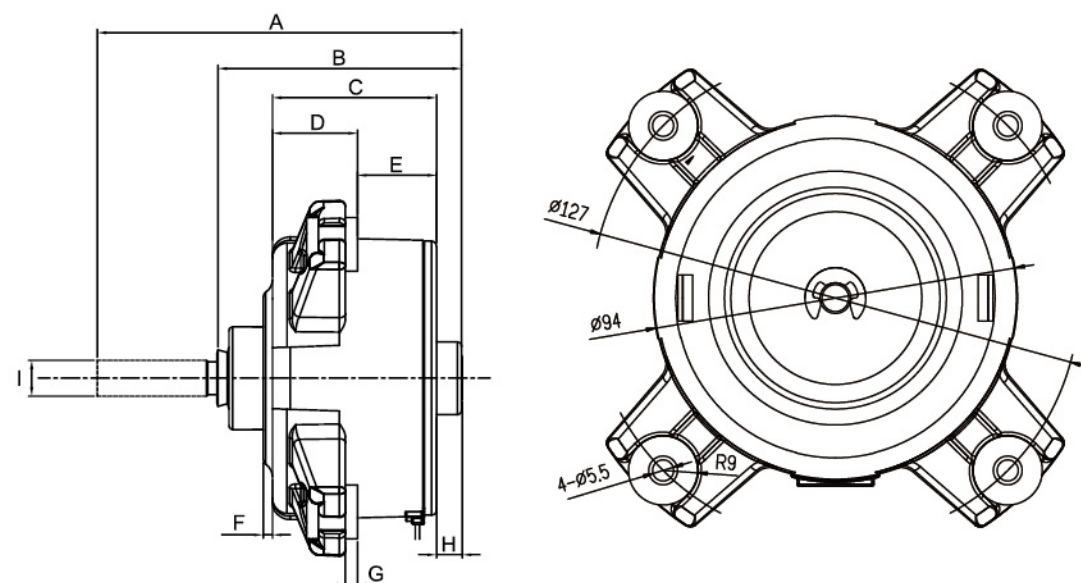
产品性能

电压 Voltage	DC100V、140V、280V、300V、310V、340V
级数 Pole	8P、10P、14P
线材/Wire Material	铜线/Cooper、铝线/Aluminum

Product Performance

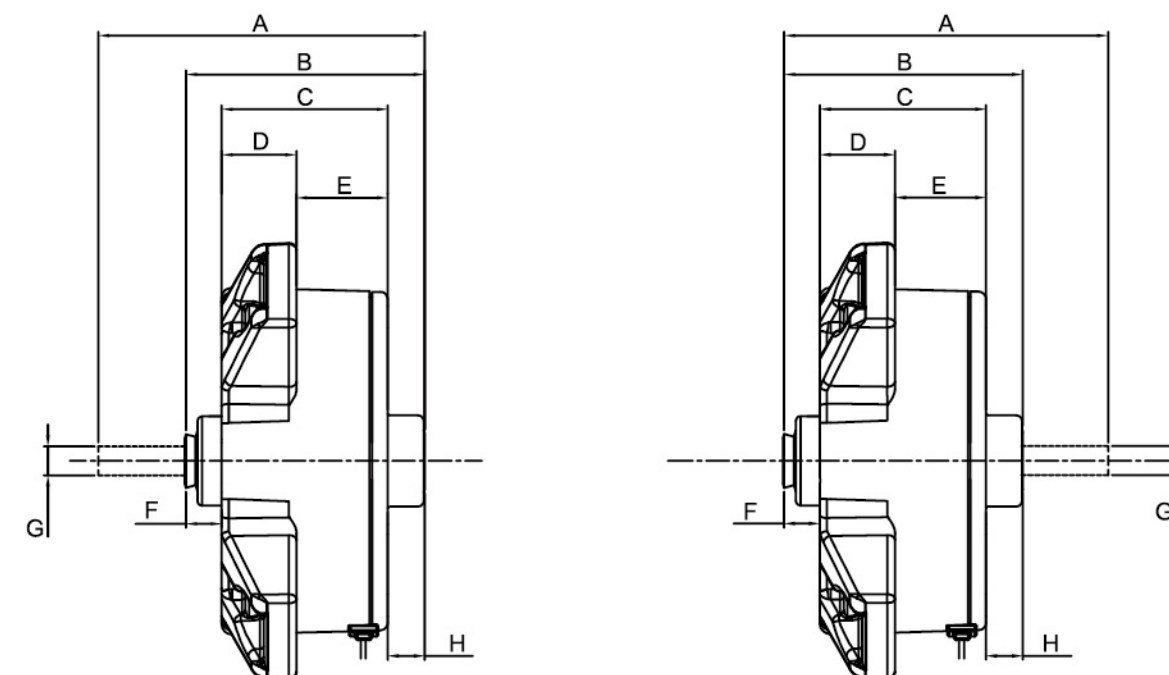
典型产品技术参数 Rated Characteristics & Referred Figures

序号 NO.	型号 Model	输出功率 (W)	额定电压 (V)	额定转速 (rpm)	效率 (%)
I	DBI*系列	10-140	100-340	500-2000	70 and above



系列 Series	A	B	C	D	E	F	G	H	I
DBI458	80-230	82.3	55.1	28.5	26.6	3.1	4	10.1	12

室外机 / 空清机直流无刷马达 BLDCM Outdoor A/C Unit & Air Purifiers



系列 Series	A	B	C	D	E	F	G	H
DBI445	70.5-225	65.7	45.5	20.5	25	10.1	8	10.1
DAI455	80-235	75.6	55.4	24.5	30.9	10.1	8	10.1

直流无刷马达应用 APPLICATION OF BLDC MOTOR



呼吸机
CPAP Machine



吊扇
Ceiling Fan



立扇
Stand Fan



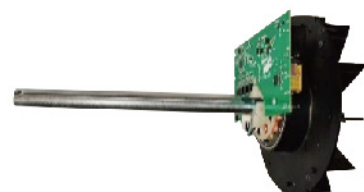
桌扇
Table fan



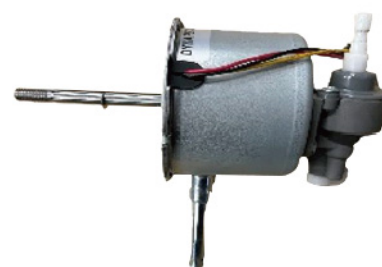
循环扇
Circulating Fan



OD32 系列
OD32 series



OD55 系列
OD55 Series



OD48/55 系列
OD48/55 series



OD48/55 系列
OD48 / 55 series



OD48/55 系列
OD48 / 55 series



空气净化器
Air Purifier



除湿器
Dehumidifier



移动空调
Portable Air Conditioner



灯扇
Ceiling Fan Lights



吸顶扇
Ceiling-mounted Fan

一般用途风扇马达 BLDC Motors for Regular Pedestal Fans

JFW86 Series



应用

- 直流立扇
- 空气净化机

特点

- 低噪音、低振动
- 高效率、高可靠度

重要参数

外壳材质	钢材
操作温度	0°C~40°C
运转模式	连续
绝缘等级	E class
输出功率	10 ~ 50W

Applications

- DC pedestal fans
- Air purifiers

Product Characteristics

- Low noise and vibration
- High efficiency and reliability

Major Parameters

Housing material	Steel
Operating temp	0°C~40°C
Operating mode	Continuous
Insulation class	E class
Output power (W)	10 ~ 50W

产品特性与主要尺寸 Rated Characteristics & Referred Diagrams

机种 Model	额定电压 Rated Voltage (VDC)	额定功率 Rated Power (W)	额定转速 Speed (rpm)	最大扭矩 Max. Torque N·m {kg·cm}	图示 Figures
D6BMW8764015HFFD0101	24	11	900	1180	Fig. A
D6BMW8755016HFFB0101	24	16	1060	1040	Fig. B
D6BMW8755011HFFB0201	24	11	900	1180	Fig. C
D6BMW8756011HFFD0101	24	12.5	1330	912	Fig. D
D6BMW4817015HFN0107	24	15.3	1275	1160	Fig. E
D6BMW4814012HFFD0108	24	13	1380	910	Fig. F
D6BMW4814015HFFD0108	24	14	1200	1150	Fig. G
D6BMW4817017HFFB0104	24	17.3	1300	1300	Fig. H
D6BMW4817013HFFA0104	24	13.2	1250	1030	Fig. I
D6BMW4817013HFFA0104	24	18	1000	1740	Fig. I

立扇吸顶空清 Slide Fan、Ceiling Circulator & Air Purifier

外形图 Outer Diagram

Fig. A : D6BMW8764015HFFD0101

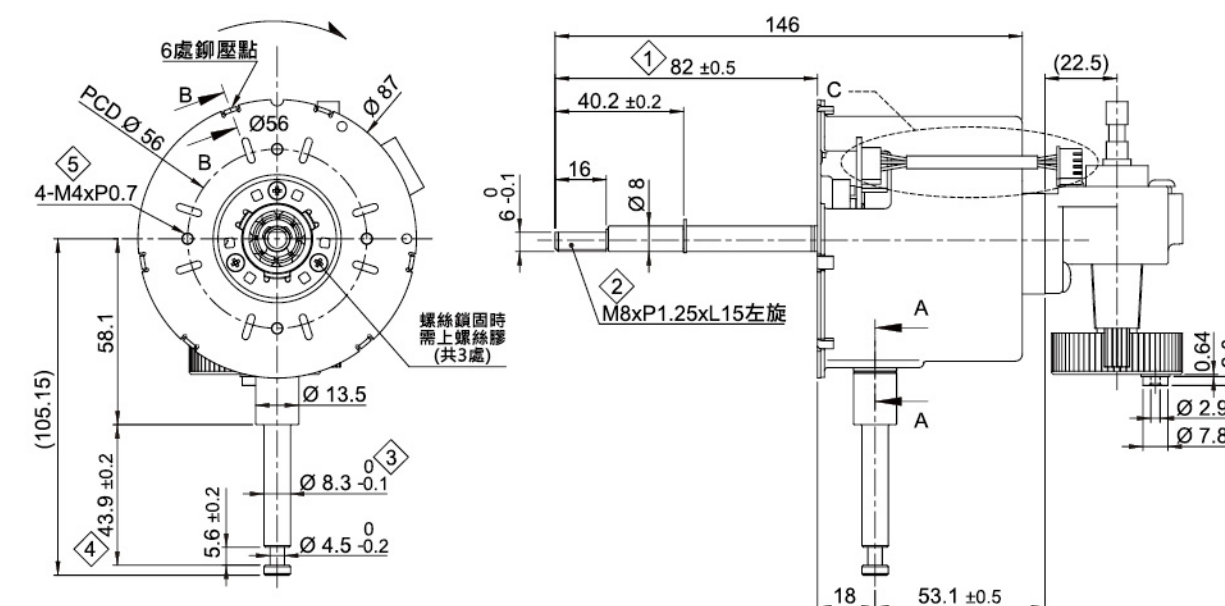
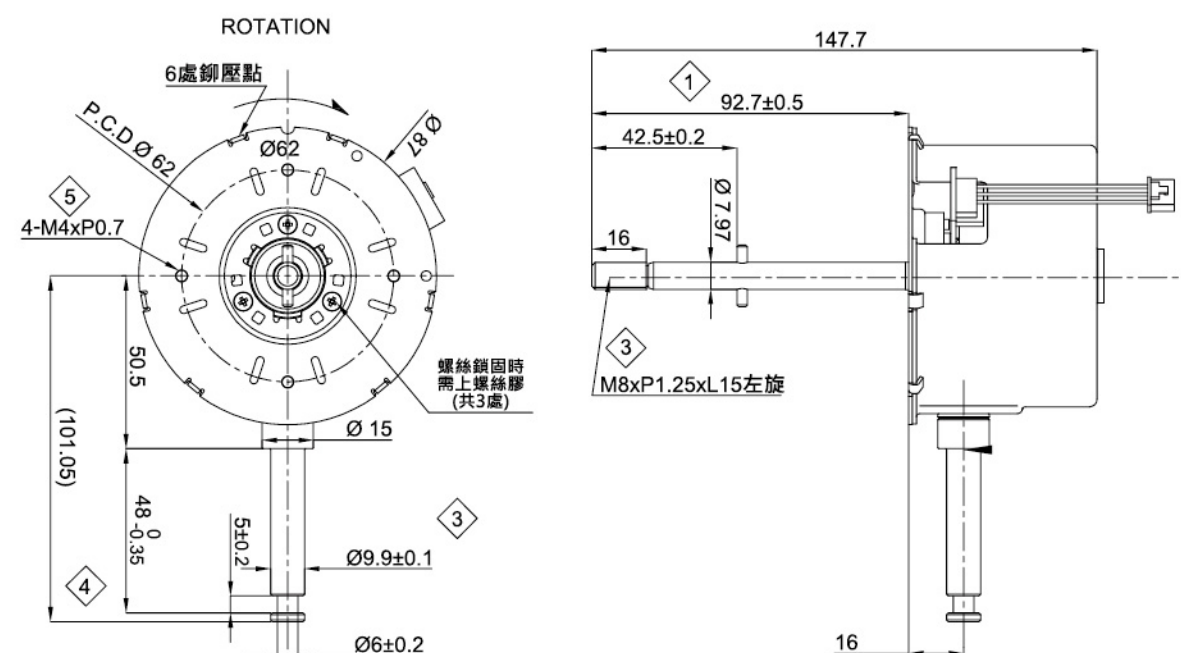


Fig. B : D6BMW8755016HFFB0101



立扇吸顶空清
Slide Fan、Ceiling Circulator & Air Purifier

Fig. F : D6BMW4814012HFFD0108

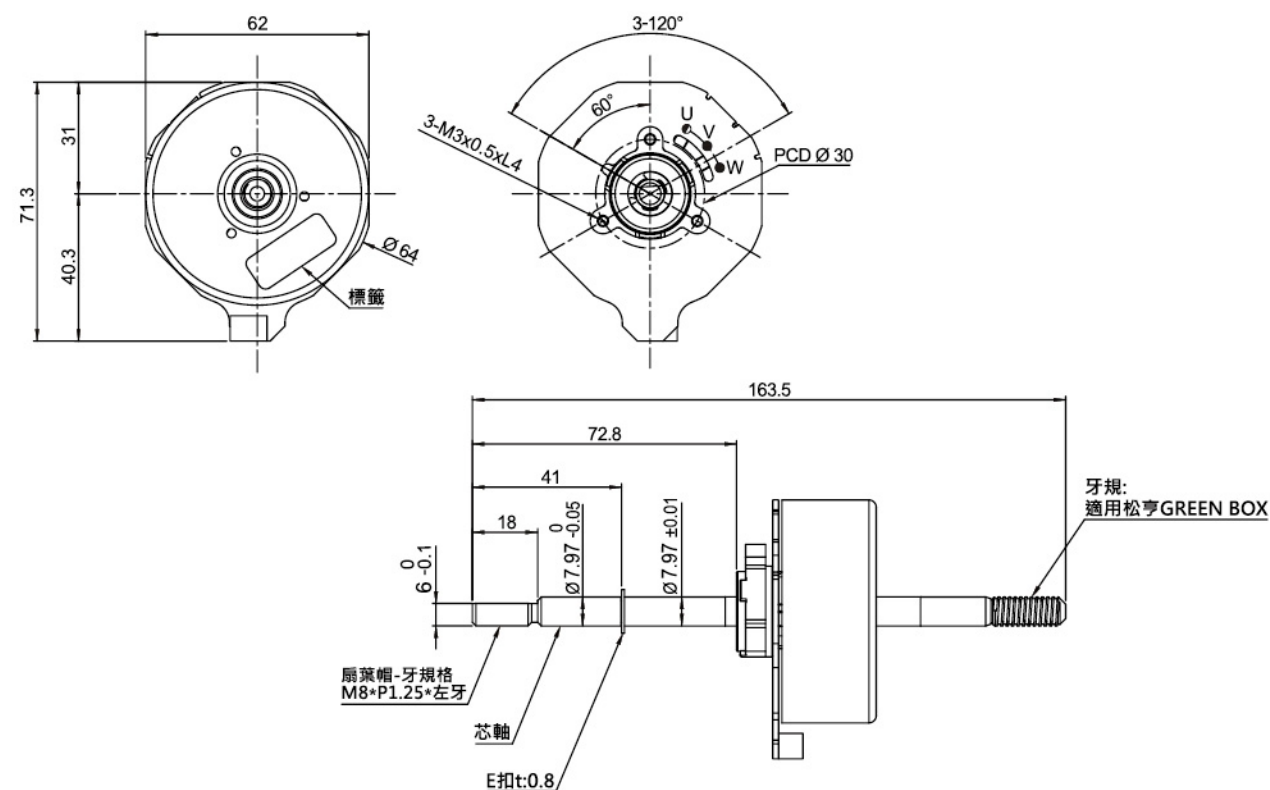
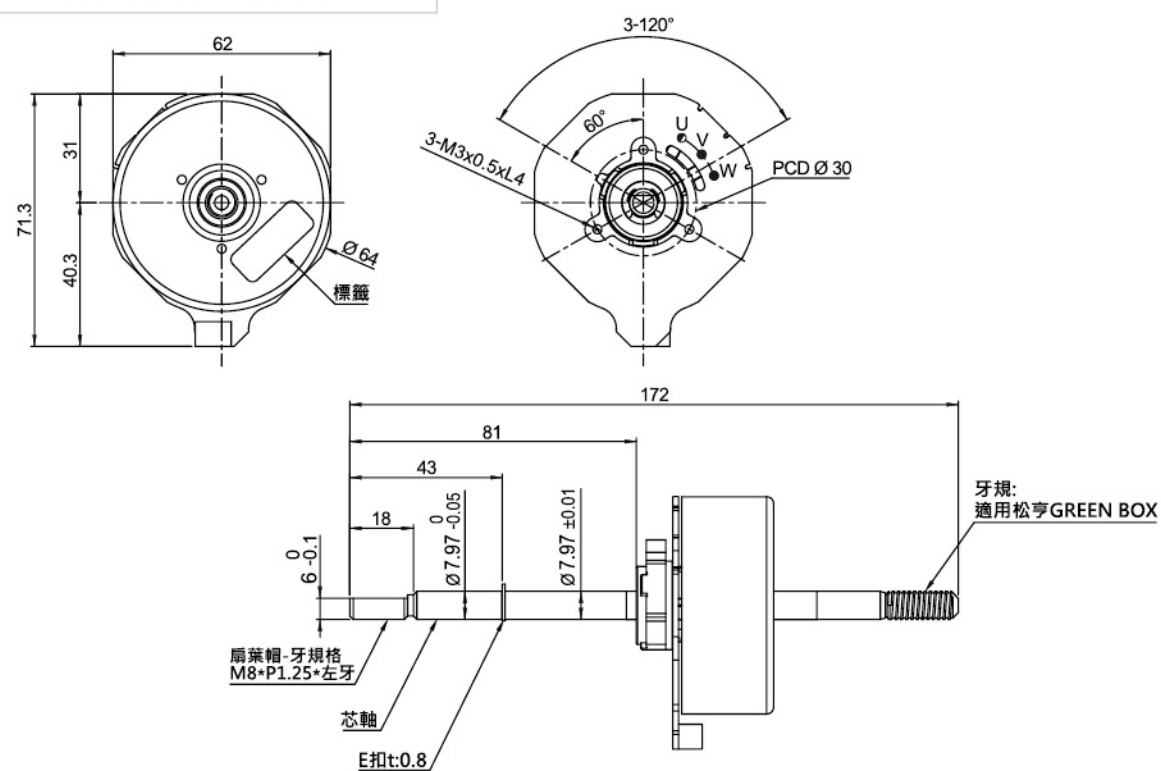


Fig. G : D6BMW4814015HFFD0108



立扇吸顶空清
Slide Fan、Ceiling Circulator & Air Purifier

外形图 Outer Diagram

Fig. H : D6BMW4817017HFFB0104

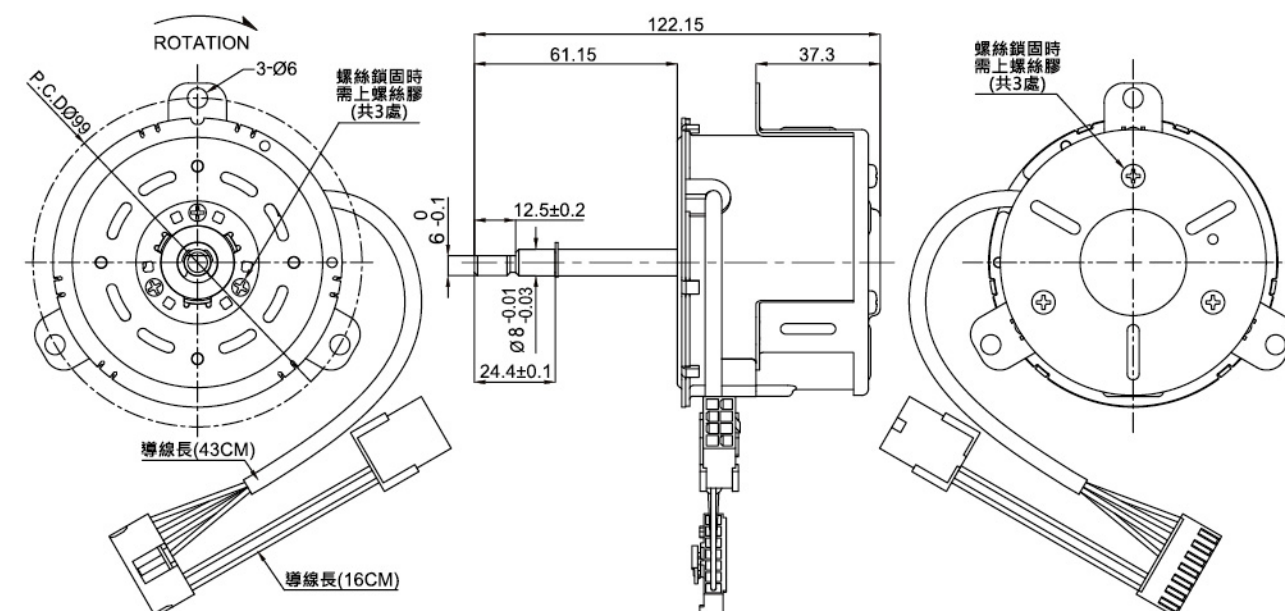
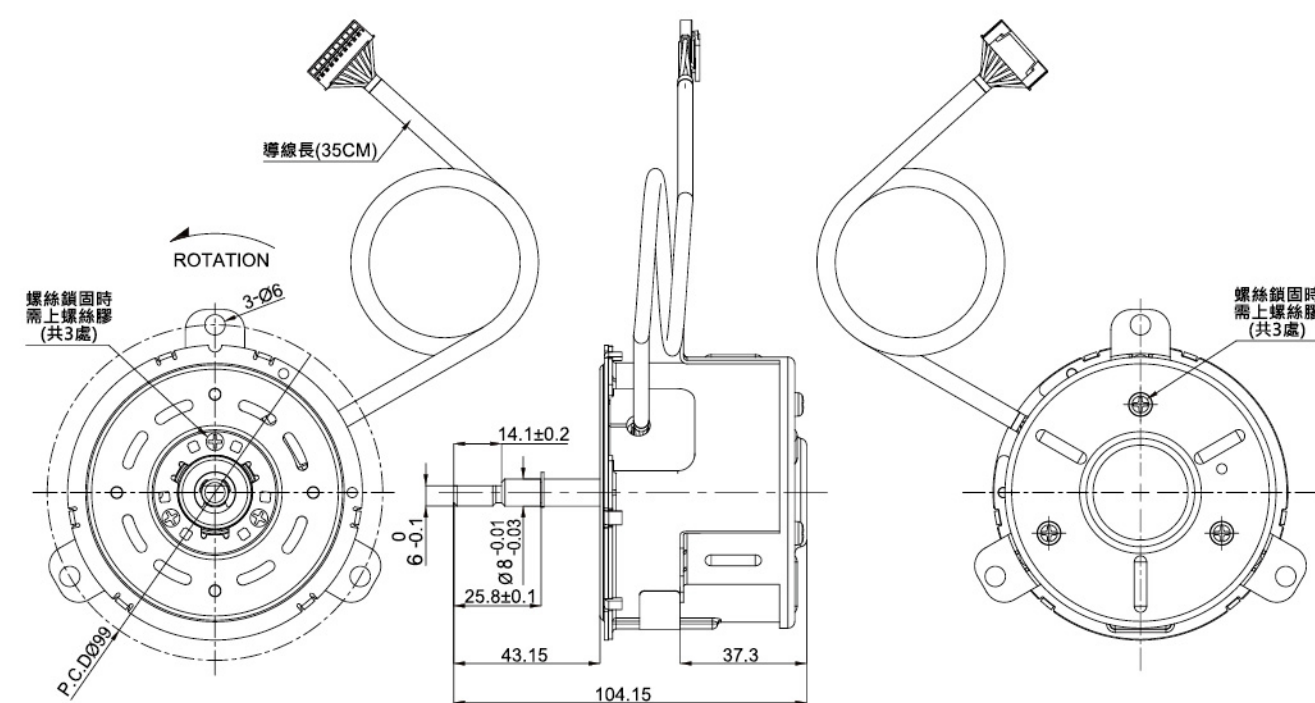


Fig. I : D6BMW4817013HFFA0104



交流感应马达应用

APPLICATION OF AC INDUCTION MOTORS



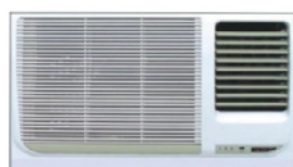
移动空调
Portable Air Conditioner



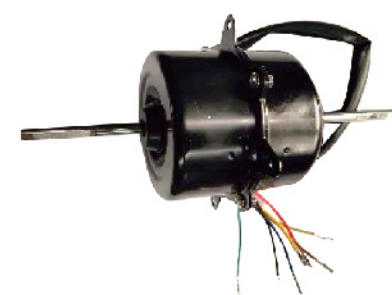
空调外机
ODU Air Conditioner



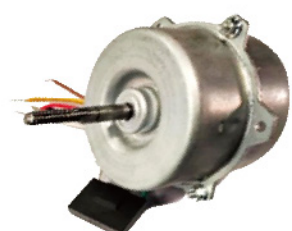
除湿机
Dehumidifier



窗机
Window Air Conditioner



OD95 系列
OD95 Series



OD78/80/82 系列
OD78 / 80 / 82 Series



OD75/78/80/82 系列
OD75 / 78 / 80 / 82 Series



工业扇
Industrial Fan



灯扇
Ceiling Fan Lights



趴地扇
Floor Fan



静音送风机
Centrifugal Tube Fan



桌扇
Table Fan



立扇
Stand Fan



墙扇
Wall Fan



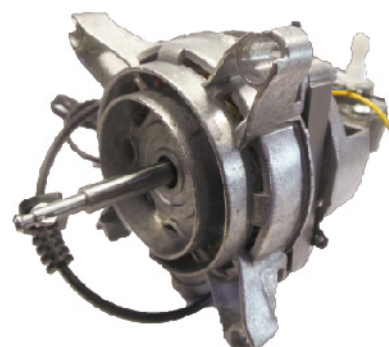
楼顶扇
Ceiling-mounted Fan



箱形扇
Box Fan

通用马达 Universal motor

75 Induction Motor (Fan Motor)



应用

- 家用电器
- 台扇

Applications

- Home Appliances
- Desk Fan

特点

- 直径: W75mm
- 长度: 154mm
- 轴直径: 8mm
- 重量: 756g
- 额定电压: 127V~
- 频率: 60Hz

Motor Characteristics

- Diameter: W75mm
- Length: 154mm
- Shaft Diameter: 8mm
- Weight: 756g
- Nominal Voltage: 127V~
- Frequency: 60Hz

标准参数

工作温度	-10~55℃
存放温度	-20~100℃
安装	任何位置
电气连接类型	引线
绕组温度(T _{max})	130℃
旋转方向	CW

Standard Data

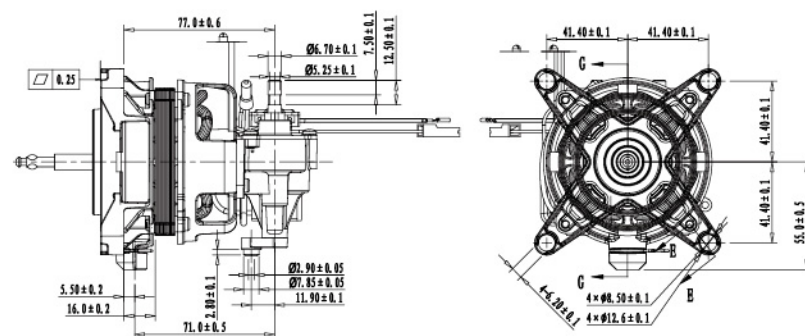
Operation Temperature	-10~55℃
Storage Temperature	-20~100℃
Mounting	Any Positio
Electrical Connection	Terminal
Winding Temperature	130℃
Direction of Rotation	CW

产品特性与主要尺寸

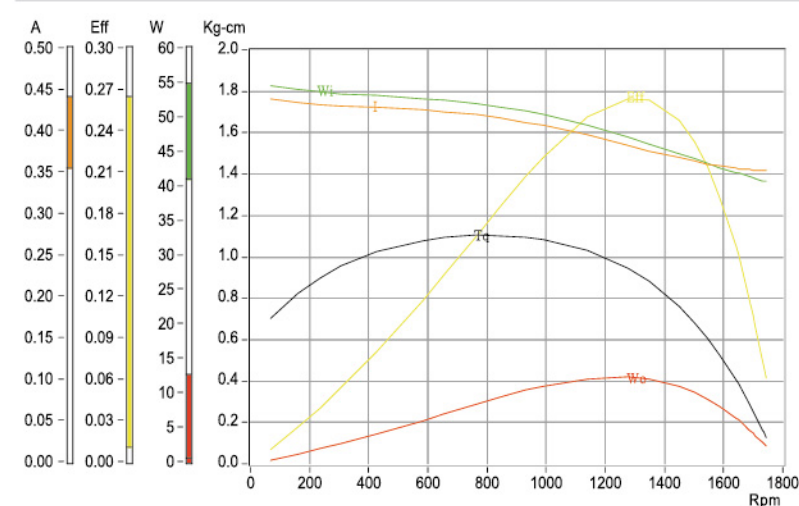
Rated Characteristics & Referred Diagrams

机种 Model No.	7510
额定电压 Rated Voltage (V)	AC 127V
空载转速 No-Load Speed (r/min)	1750
空载电流 No-Load Current (A)	0.3
额定扭矩 Rated Torque (mNm)	85
额定转速 Rated Speed (R.P.M.)	1350
额定电流 Rated Current (A)	0.38
输入功率 In-Put (Watt)	46.8
最大效率 Max-Efficiency (%)	27
输出功率 Out-Put (Watt)	10.35
极数 Number of Pole	4
尺寸 Dimensions (mm)	W75
重量 Weight (g)	756

尺寸 Dimensions



特性曲线 Characteristic curve



通用马达 Universal motor

75 Induction Motor (Fan Motor)



应用

- 家用电器
- 台扇 / 立扇

Applications

- Home Appliances
- Desk & Stand Fan

特点

- 直径: W75mm
- 长度: 221mm
- 轴直径: 8mm
- 重量: 1725g
- 额定电压: 127V~
- 频率: 60Hz

Motor Characteristics

- Diameter: W75mm
- Length: 221mm
- Shaft Diameter: 8mm
- Weight: 1725g
- Nominal Voltage: 127V~
- Frequency: 60Hz

标准参数

工作温度	-10~55℃
存放温度	-20~100℃
安装	任何位置
电气连接类型	端子
绕组温度(T _{max})	130℃
旋转方向	CW

Standard Data

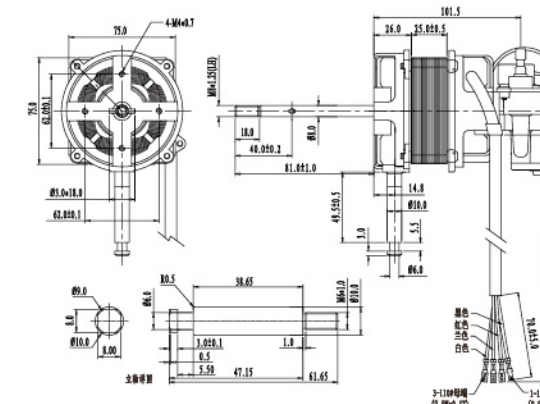
Operation Temperature	-10~55℃
Storage Temperature	-20~100℃
Mounting	Any Positio
Electrical Connection	Terminal
Winding Temperature	130℃
Direction of Rotation	CW

产品特性与主要尺寸

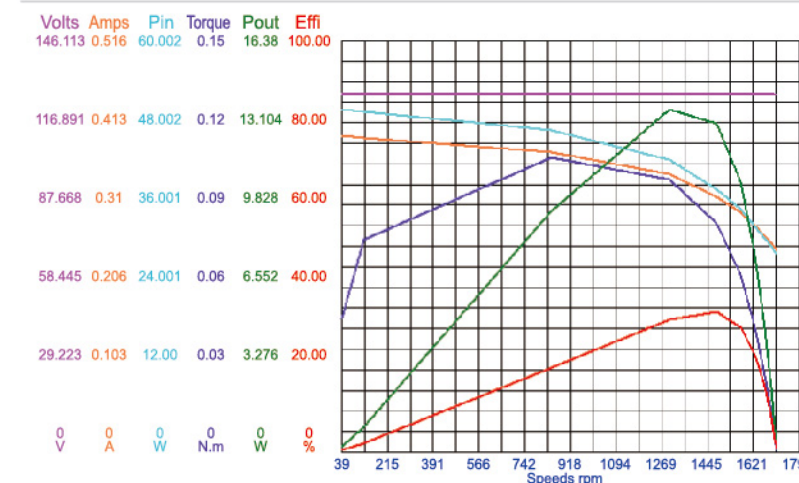
Rated Characteristics & Referred Diagrams

机种 Model No.	7525
额定电压 Rated Voltage (V)	AC 127V
空载转速 No-Load Speed (r/min)	1750
空载电流 No-Load Current (A)	0.7
额定扭矩 Rated Torque (mNm)	95
额定转速 Rated Speed (R.P.M.)	1510
额定电流 Rated Current (A)	1.1
输入功率 In Put (Watt)	126
最大效率 Max-Efficiency (%)	35
输出功率 Out-Put (Watt)	45
极数 Number of Pole	4
尺寸 Dimensions (mm)	W75
重量 Weight (g)	1725

尺寸 Dimensions



特性曲线 Characteristic curve



通用马达 Universal motor

95 Induction Motor (Fan Motor)



产品特性与主要尺寸

Rated Characteristics & Referred Diagrams

机种 Model No.	9525
额定电压 Rated Voltage (V)	AC 220V
空载转速 No-Load Speed (r/min)	995
空载电流 No-Load Current (A)	0.28
额定扭矩 Rated Torque (mNm)	390
额定转速 Rated Speed (R.P.M.)	850
额定电流 Rated Current (A)	0.38
输入功率 In-Put (Watt)	87
最大效率 Max-Efficiency (%)	37
输出功率 Out-Put (Watt)	32
极数 Number of Pole	6
尺寸 Dimensions (mm)	Φ95
重量 Weight (g)	1650

■ 应用

- 家用电器
- 空调室外机

■ 特点

- 直径: Φ95mm
- 长度: 25mm
- 轴直径: 8mm
- 重量: 1650g
- 额定电压: 220V~
- 频率: 50Hz

■ 标准参数

工作温度	-10~55℃
存放温度	-20~100℃
安装	任何位置
电气连接类型	端子
绕组温度(Tmax)	130℃
旋转方向	CCW

■ Applications

- Home Appliances
- Air conditioner outdoor unit

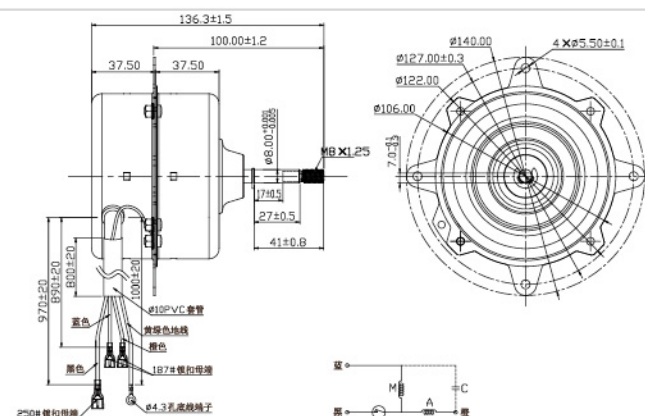
■ Motor Characteristics

- Diameter: Φ95mm
- Length: 25mm
- Shaft Diameter: 8mm
- Weight: 1650g
- Nominal Voltage: 220V~
- Frequency: 50Hz

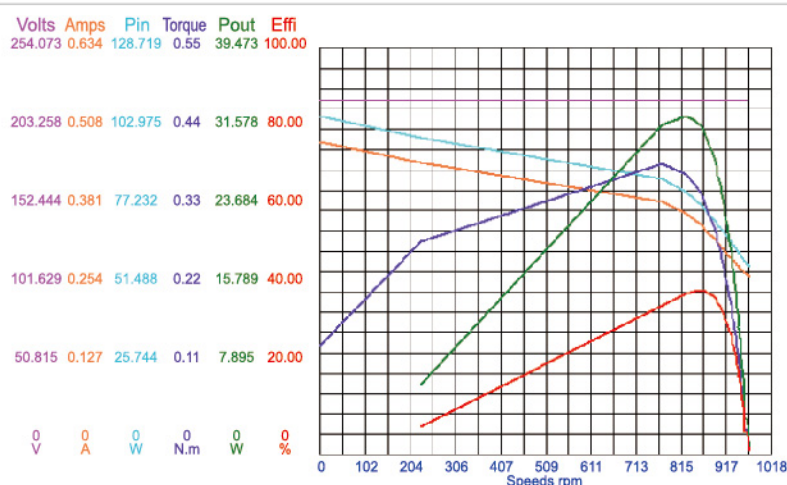
■ Standard Data

Operation Temperature	-10~55℃
Storage Temperature	-20~100℃
Mounting	Any Positio
Electrical Connection	Terminal
Winding Temperature	130℃
Direction of Rotation	CCW

尺寸 Dimensions



特性曲线 Characteristic curve



通用马达 Universal motor

108 Induction Motor (Fan Motor)



产品特性与主要尺寸

Rated Characteristics & Referred Diagrams

机种 Model No.	10812
额定电压 Rated Voltage (V)	AC 127V
空载转速 No-Load Speed (r/min)	1740
空载电流 No-Load Current (A)	0.5
额定扭矩 Rated Torque (mNm)	245
额定转速 Rated Speed (R.P.M.)	1250
额定电流 Rated Current (A)	0.8
输入功率 In Put (Watt)	115
最大效率 Max-Efficiency (%)	33
输出功率 Out-Put (Watt)	37
极数 Number of Pole	4
尺寸 Dimensions (mm)	W108
重量 Weight (g)	1420

■ 应用

- 家用电器
- 工业风扇

■ 特点

- 直径: W108mm
- 长度: 125mm
- 轴直径: 8mm
- 重量: 1420g
- 额定电压: 127V~
- 频率: 60Hz

■ 标准参数

工作温度	-10~55℃
存放温度	-20~100℃
安装	任何位置
电气连接类型	引线
绕组温度(Tmax)	130℃
旋转方向	CW

■ Applications

- Home Appliances
- Industrial Fan

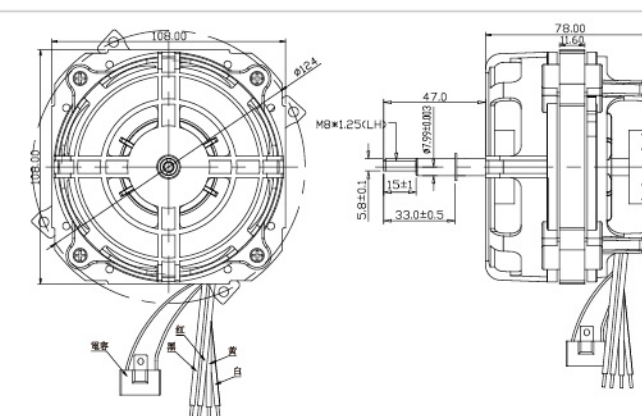
■ Motor Characteristics

- Diameter: W108mm
- Length: 125mm
- Shaft Diameter: 8mm
- Weight: 1420g
- Nominal Voltage: 127V~
- Frequency: 60Hz

■ Standard Data

Operation Temperature	-10~55℃
Storage Temperature	-20~100℃
Mounting	Any Positio
Electrical Connection	Lead Wire
Winding Temperature	130℃
Direction of Rotation	CW

尺寸 Dimensions



特性曲线 Characteristic curve

