

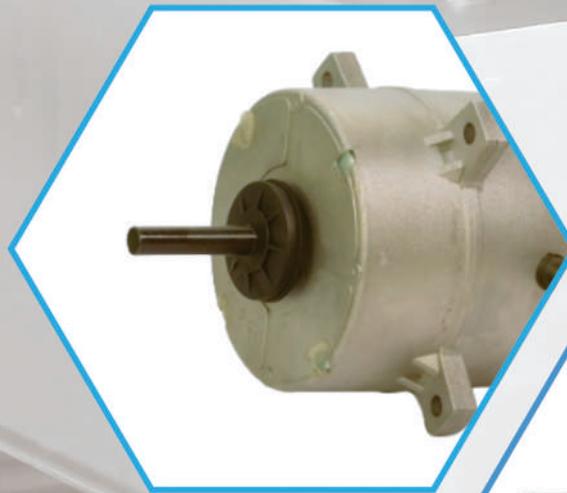


O-Yang Kongjoki Co., Ltd.

A manufacturer of home appliance, industrial, and HVAC motors

A Leading Player In The
Motor Manufacturing Sector

O-Yang Kongjoki



CEO Greeting

O-Yang Kongjoki Co., Ltd. is a specialized manufacturer of AC and BLDC motors. Since its establishment in 1979, the company has been dedicated exclusively to the manufacturing and development of motors.

We have been meeting customer requirements by customization systems. Understand customer needs and objectives and develop customized development based on them.

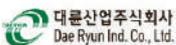
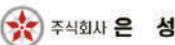
We can guarantee quality and delivery through various experiences. It implements a strict quality control system and provides high reliability and durability to customers through product verification and reliability testing.

Since 1979, we have focused on motor development, leveraging our manufacturing know-how and technological expertise built through continuous R&D. As a result, we have successfully established a diverse portfolio across a wide range of industries.

O-Yang Kongjoki Co., Ltd. is not complacent and will continue to focus on supplying high-quality motors optimized for the success of its customers.

CEO **Bae Sung Woo**

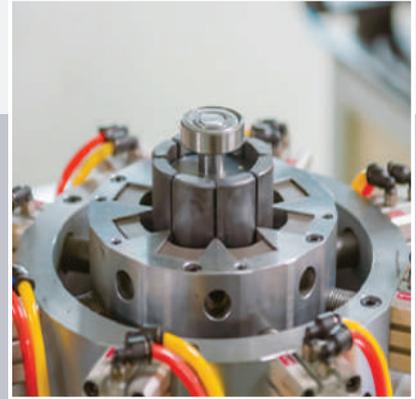
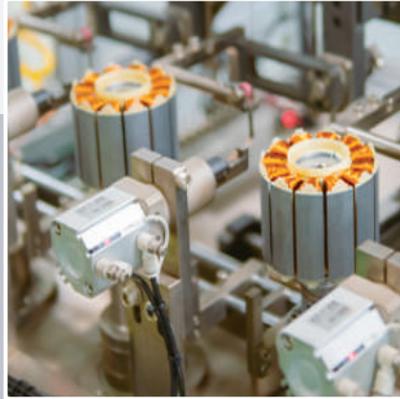
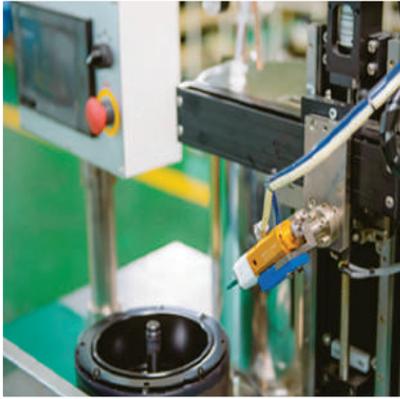
Main Client

| | | | |
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Facilities

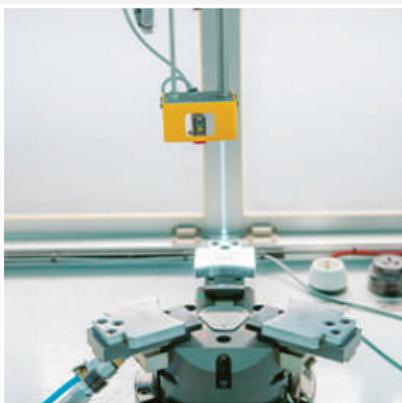
O-Yang Kongjoki

is equipped with best equipment to produce the best products.



OYANG's TECHNOLOGY

"We thoroughly understand our customers' needs and leverage our optimized facilities to produce custom products. We always put our customers' success first."



Certificate

특허증
Certificate of Patent

특허 번호: 제 10-1558612 호

발행일자: 2019년 05월 14일

특허권자: 최용규

발명명: 저전압 유도형 변압기

특허청장: 최용규

특허증
Certificate of Patent

특허 번호: 제 10-1622709 호

발행일자: 2019년 05월 14일

특허권자: 최용규

발명명: 저전압 유도형 변압기

특허청장: 최용규

CERTIFICATE OF REGISTRATION

O-YANG KONGJOKI CO., LTD.

130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

Standard: KS-C 6530:2015 / ISO 9001:2015

Valid: 2022.05.18 - 2025.05.17 (Valid Registration Date: 2019.05.18)

Scope of Supply: The Design, Development and Manufacture of Low Voltage Inductor Motor Single Phase, Three Phase

31 May 2022

CERTIFICATE OF REGISTRATION

O-YANG KONGJOKI CO., LTD.

130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

Standard: KS-C 6530:2015 / ISO 9001:2015

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31 May 2022

기업분석연구소 인증서

1. 본 인증서는 기업분석연구소의 인증을 증명합니다.

2. 본 인증서 발급을 위하여 기업분석연구소의 인증기준을 충족하여야 합니다.

3. 본 인증서 발급을 위하여 기업분석연구소의 인증기준을 충족하여야 합니다.

2023년 12월 15일

한국산업기술진흥협회

Declaration of Conformity
European Directives

For the following Product: 81K-3001000

Manufacturer: OUYANG KONGJOKI CO., LTD.

Address: 130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

CE Marking

CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CCC Marking

Product Name: 81K-3001000

Manufacturer: OUYANG KONGJOKI CO., LTD.

Address: 130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

CCC Marking

中国国家强制性产品认证证书

CCC Marking

产品名称: 单相异步电动机

制造商: 欧阳公基有限公司

地址: 韩国京畿道涟川市善本里130号

CCC Marking

中国国家强制性产品认证证书

CCC Marking

产品名称: 单相异步电动机

制造商: 欧阳公基有限公司

地址: 韩国京畿道涟川市善本里130号

CCC Marking

Eco-Partner Certificate

Samyang Electronics certifies that OUYANG KONGJOKI CO., LTD. is an Eco-Partner Affiliate Company.

2023.04.18.2023

김성민 이사장

LGE Green Program Certificate

eco logo

Company: OUYANG KONGJOKI CO., LTD.

Address: 130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

2023.12.2023

김성민 이사장

벤처기업확인서

벤처기업확인서

기업명: OUYANG KONGJOKI CO., LTD.

주소: 130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

2023년 12월 11일

김성민 이사장

벤처기업확인서

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기업명: OUYANG KONGJOKI CO., LTD.

주소: 130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

2023년 12월 11일

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주소: 130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

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기업명: OUYANG KONGJOKI CO., LTD.

주소: 130, Sanbon-gil, Miran-gu, Gyeonggi-do, Korea

2023년 12월 11일

김성민 이사장

History

- 2024.05** Designated as a Promising SME by the Ministry of Employment and Labor
 - 2022.05** Ministry of Employment and Labor's selection of small and medium-sized enterprises
 - 2021.11** Development of an all-in-one motor
 - 2019.09** KICOX selected as a global leader
 - 2018.12** OR BLDC MOTOR Development(200W)
 - 2017.09** OR BLDC MOTOR Development(100W)
 - 2016.10** Patent Registration
(Ball bearing electric shaft structure of BLDC MOTOR)
 - 2016.03** OR BLDC MOTOR Development(300W, 400W, 650W)
 - 2015.03** CE Certification BLDC MOTOR
 - 2014.04** CCC certification
 - 2013.03** Japan's KYOKUTOH signs a Motor supply contract for TipDress
 - 2011.11** Development of Motor for Wind Power Generators
 - 2011.06** FFU UL Certification (100W, 150W, 300W)
 - 2011.05** Authorization of a corporate-affiliated research institute
(Korea Industrial Technology Promotion Association)
 - 2008.05** Development of Motor for Mobile Compressor
 - 2008.05** BLDC motor production
(ventilators, blowers, total heat exchangers, etc.)
 - 2007.04** Samsung Electronics ECO-PARTNER Certification
 - 2005.10** LG Electronics ECO-PARTNER Certification
 - 2005.07** Development of 750W High Efficiency Motor
 - 2004.12** ISO 14001 Certification
 - 2004.08** Designation of LG Electronics Quality Certification Company
 - 2003.07** UL Certification for Export Products
 - 2002.10** ISO 9001 Certification
 - 2001.12** Annual production reached 1 million units in December
-
- 1994.01** Designated as a quality certification company
for Samsung Electronics
 - 1989.09** Designated by the Ministry of Science and Technology as a
specific research and development company
 - 1986.04** Early development and delivery with Samsung Electronics
 - 1985.06** Selection of promising small and medium-sized enterprises
(Science Agency)
 - 1985.01** Ministry of National Defense registration of
military supplier designation
 - 1982.06** Technology partnership with Japan's Nishishiba Electric Co., Ltd
 - 1979.04** Motor production for air conditioners
 - 1979.03** Establishment of O-Yang Kongjoki Corporation

Air Conditioner

- Characteristics
- Optimized for low RPM, low noise, and sets
- Applications
- System air conditioning, package air conditioning



B405A an air-conditioned outdoor unit

Characteristics

Optimized for low RPM, low noise, and sets

Applications

System air conditioner, package air conditioner



DB200A an air-conditioned outdoor unit

Characteristics

Optimized for low RPM, low noise, and sets

Applications

System air conditioner, package air conditioner



D498 an air-conditioned outdoor unit

Characteristics

Optimized for low RPM, low noise, and sets

Applications

System air conditioner, package air conditioner



KR410M an air-conditioned outdoor unit

Characteristics

Optimized for low RPM, low noise, and sets

Applications

System air conditioner, package air conditioner



D198 an air-conditioned indoor unit

Characteristics

Optimized for low RPM, low noise, and sets

Applications

System air conditioner, package air conditioner



B340 an air-conditioned indoor unit

Characteristics

Motor optimized for low-noise, sets

Applications

System air conditioner, package air conditioner



S350 an air-conditioned indoor unit

Characteristics

Optimized for low RPM, low noise, and sets

Applications

System air conditioner, package air conditioner



SH825 Air conditioner indoor unit BLDC

Characteristics

Motor optimized for low-noise, sets

Applications

System air conditioner, package air conditioner

Ventilator

- Characteristics
- Mota optimized for low noise and set
- Applications
- Ventilators, air conditioning facilities, and air supply and exhaust



DR770 Small Shirocco Pan

Characteristics

Mota optimized for low noise and set

Applications

Air conditioning equipment, air supply and exhaust



DR501 A large Shirocco fan

Characteristics

Mota optimized for low noise and set

Applications

Air conditioning equipment, air supply and exhaust



DR436 A three-phase ventilator

Characteristics

Mota optimized for sets

Applications

Industrial Ventilators



DG200 An air blower

Characteristics

RPM adjustable, normal speed operation, optimization for low noise, set, excellent motor control, high speed operation

Applications

High-precision control blower and ventilation system

FFU (Fan Filter Unit)

- Characteristics
 - Ultra-low noise and vibration, PWM control method, and motor optimized for sets
- Applications
 - Cleanroom, semiconductors, precision electronics, and hospitals Used in operating rooms, intensive care recovery rooms, etc



DB385 Back-ward Impeller for FFU

Characteristics

Ultra-low noise and vibration, PWM control method, and motor optimized for sets

Applications

Cleanroom, semiconductors, precision electronics, and hospitals Used in operating rooms, intensive care recovery rooms, etc



DB200A Back-ward Impeller for FFU

Characteristics

Ultra-low noise and vibration, PWM control method, and motor optimized for sets

Applications

Cleanroom, semiconductors, precision electronics, and hospitals Used in operating rooms, intensive care recovery rooms, etc



SS650 Back-ward Impeller for FFU

Characteristics

Ultra-low noise and vibration, PWM control method, and motor optimized for sets

Applications

Cleanroom, semiconductors, precision electronics, and hospitals Used in operating rooms, intensive care recovery rooms, etc



SS300-1 Back-ward Impeller for FFU

Characteristics

Ultra-low noise and vibration, PWM control method, and motor optimized for sets

Applications

Cleanroom, semiconductors, precision electronics, and hospitals Used in operating rooms, intensive care recovery rooms, etc

Freezer

- Characteristics
- High efficiency, low noise, long life single-phase and three-phase induction motors
- Applications
- Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit



Seat-mounted motor

Characteristics

low noise

Applications

Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit



P.C.D 220 three-phase freezer

Characteristics

low noise

Applications

Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit



P.C.D 184 single-phase freezer

Characteristics

low noise

Applications

Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit



P.C.D 184 three-phase freezer

Characteristics

low noise

Applications

Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit



P.C.D 160 three-phase freezer

Characteristics

low noise

Applications

Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit



P.C.D 184 single-phase freezer

Characteristics

low noise

Applications

Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit



P.C.D 118 a three-phase freezer

Characteristics

low noise

Applications

Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit



P.C.D 118 a single-phase freezer

Characteristics

low noise

Applications

Unit Cooler, Condensing Unit, Chilling Utine, Thermo-hygrostat Outdoor Unit

Ventilation System Fan

- Characteristics
- Inverter available, optimized for sets Motor
- Applications
- Barrier Ventilator



ES630A A three-phase barn ventilation fan

Characteristics

Inverter available, optimized for sets Mota

Applications

Barrier Ventilator



ES610A single-phase barn ventilator

Characteristics

Inverter available, optimized for sets Mota

Applications

Barrier Ventilator

Mobile Air Conditioner

- Characteristics
- Mota optimized for low noise, low vibration, and sets
- Applications
- Mobile air conditioner, dehumidifier



WT601 mobile air conditioner

Characteristics

Mota optimized for low noise, low vibration, and sets

Applications

Mobile air conditioner, dehumidifier



WT400 mobile air conditioner

Characteristics

Mota optimized for low noise, low vibration, and sets

Applications

Mobile air conditioner, dehumidifier

Axial Fan

- **Characteristics**
- High efficiency, low noise, long life single-phase and three-phase induction motors
- **Applications**
- Unit Cooler, Condensing Unit, Thermo-hygrostat Outdoor Unit



500 Pie All-in-One Fan Mota

Characteristics

High efficiency, low noise, long life single-phase and three-phase induction motors

Applications

Unit Cooler, Condensing Unit, Thermo-hygrostat Outdoor Unit



400 Pie All-in-One Fan Mota

Characteristics

High efficiency, low noise, long life single-phase and three-phase induction motors

Applications

Unit Cooler, Condensing Unit, Thermo-hygrostat Outdoor Unit

Blower Ass'y

- Characteristics
- Speed-adjustable, low-noise, long-life BLDC motor
- Applications
- Thermo-hygrostat indoor unit, air conditioner indoor unit



750W dual-shaft BLDC

Characteristics

High efficiency, low noise, long life single-phase and three-phase induction motors

Applications

Unit Cooler, Condensing Unit, Thermo-hygrostat Outdoor Unit

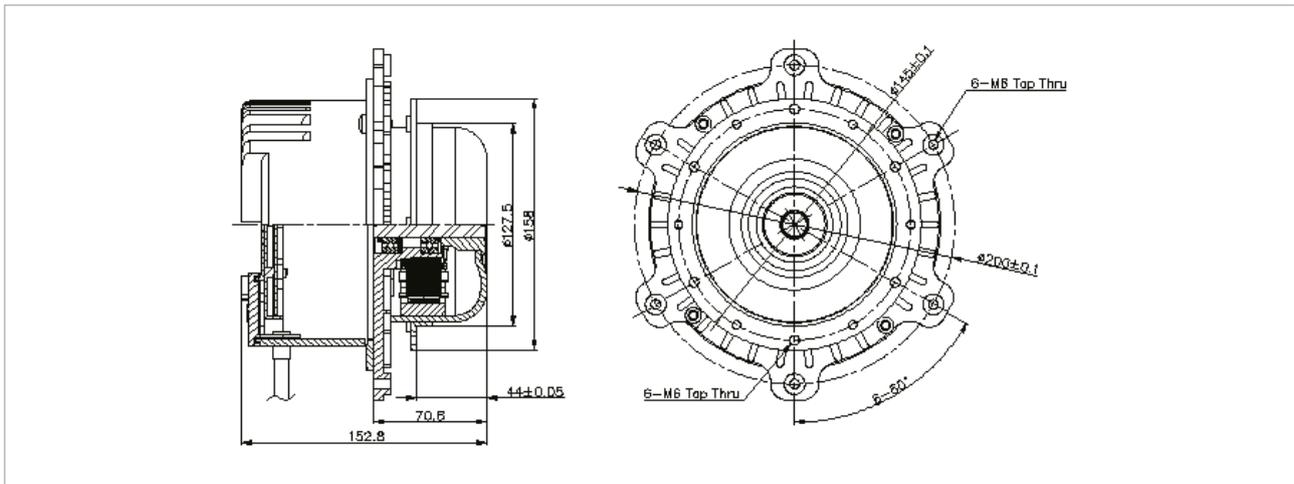
EC Motor

— 0.40kW Bldc Motor

- HBL-P0.4IA
- SPM outer-rotor BLDC motor
- Integrated sensorless-type controller
- Optimized NVH performance and easy speed control
- Robust electronic quality and high environmental durability
- Current-limiting protection function to prevent overcurrent
- Applied as a motor for constant static pressure ventilation systems in residential buildings



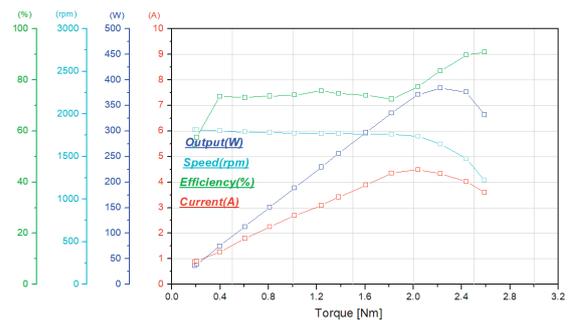
DIMENSION



MOTOR SPECIFICATION

| Motor | HBL-P0.4IA |
|-----------------------|------------|
| Rated voltage | 220VAC |
| Rated current | 2.7A |
| Rated power | 200W ± 10% |
| Rated torque | 1.0Nm |
| Rated speed | 1,800rpm |
| Control method | Sensorless |
| Insulation class | F중 |
| Operating Environment | -10°C~40°C |

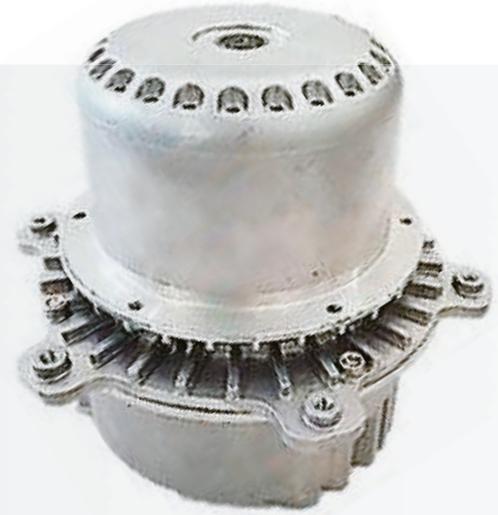
TNI Curve graph



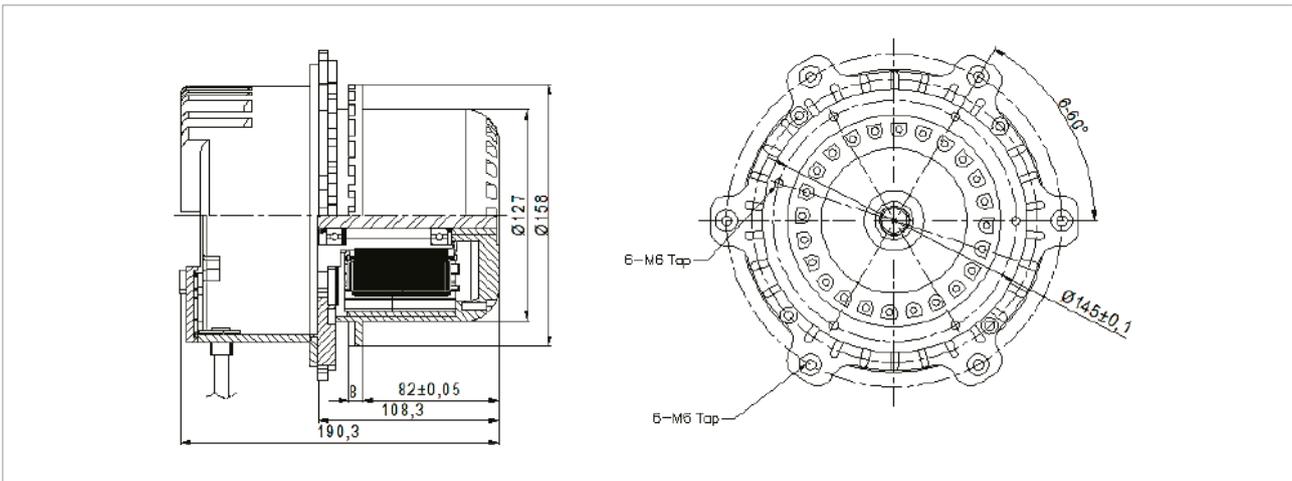
EC Motor

– 0.75kW Bldc Motor

- HBL-P0.75IA
- SPM outer-rotor BLDC motor
- SPM outer-rotor BLDC motor
- Built-in sensorless controller (integrated all-in-one type)
- Optimized NVH performance and easy speed control
- Robust electronic quality with high environmental resistance
- Overcurrent protection via current-limiting function



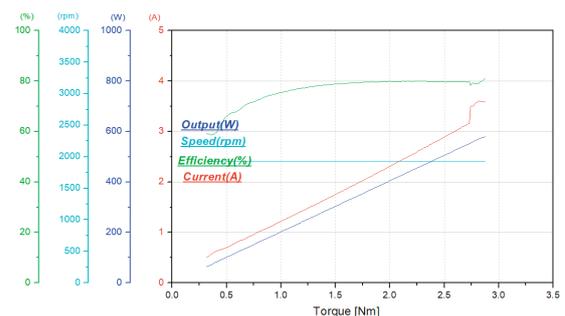
DIMENSION



MOTOR SPECIFICATION

| Motor | HBL-P0.75IA |
|-----------------------|-------------|
| Rated voltage | 220VAC |
| Rated current | 2.3A |
| Rated power | 400W ± 10% |
| Rated torque | 2.0Nm |
| Rated speed | 1,900rpm |
| Control method | Sensorless |
| Insulation class | F중 |
| Operating Environment | -10°C~40°C |

TNI Curve graph



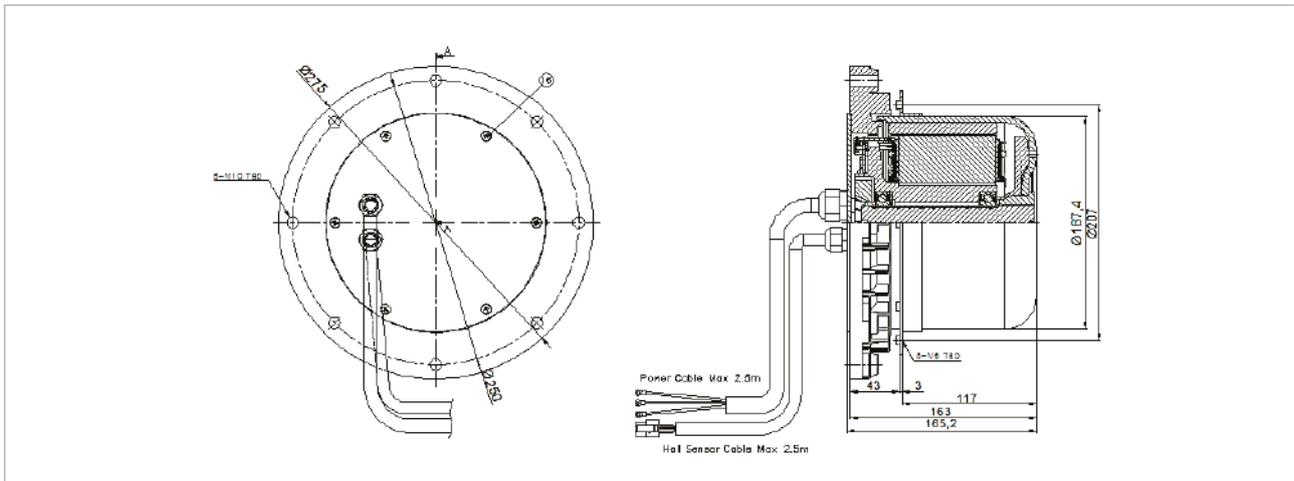
EC Motor

— Plug-In 3.0kW Bldc Motor

- HBL-P3.00A
- SPM outer-rotor BLDC motor
- Optimized for single-inlet fan applications (supply and exhaust)
- External Hall-sensor-type controller
- Optimized NVH performance and easy speed control
- Robust electronic quality with high environmental durability
- Overcurrent protection through current-limiting function



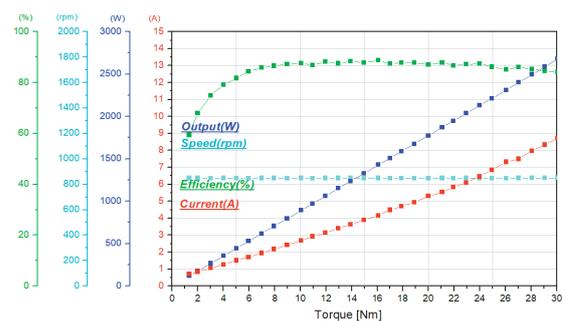
DIMENSION



MOTOR SPECIFICATION

| Motor | HBL-P3.00A |
|-----------------------|--------------|
| Rated voltage | 380VAC |
| Rated current | 5.0A |
| Rated power | 1,800W ± 10% |
| Rated torque | 20Nm |
| Rated speed | 850rpm |
| Control method | Sensorless |
| Insulation class | F중 |
| Operating Environment | -25°C~50°C |

TNI Curve graph



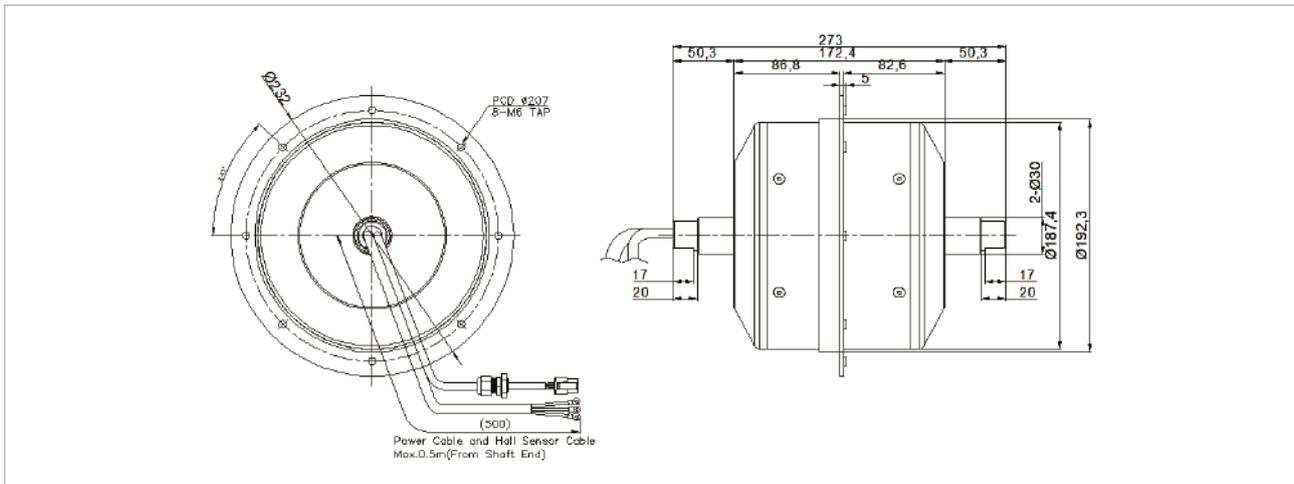
EC Motor

— Sirocco 2.2kW Bldc Motor

- HBL-S2.20A
- SPM outer-rotor BLDC motor
- Optimized for double-inlet fan applications
- External Hall-sensor-type controller
- Optimized NVH performance and easy speed control
- Robust electronic quality and high environmental durability



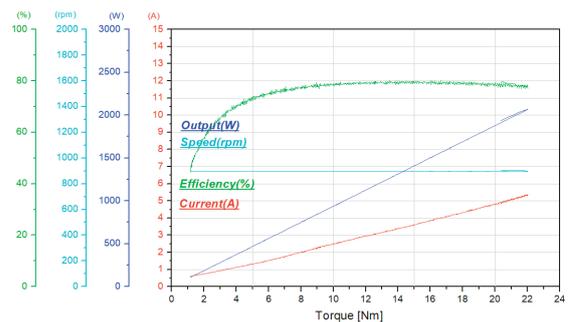
DIMENSION



MOTOR SPECIFICATION

| Motor | HBL-P3.00A |
|-----------------------|--------------|
| Rated voltage | 440VAC |
| Rated current | 4.0A |
| Rated power | 1,600W ± 10% |
| Rated torque | 17Nm |
| Rated speed | 900rpm |
| Control method | Sensored |
| Insulation class | F중 |
| Operating Environment | -25°C~50°C |

TNI Curve graph



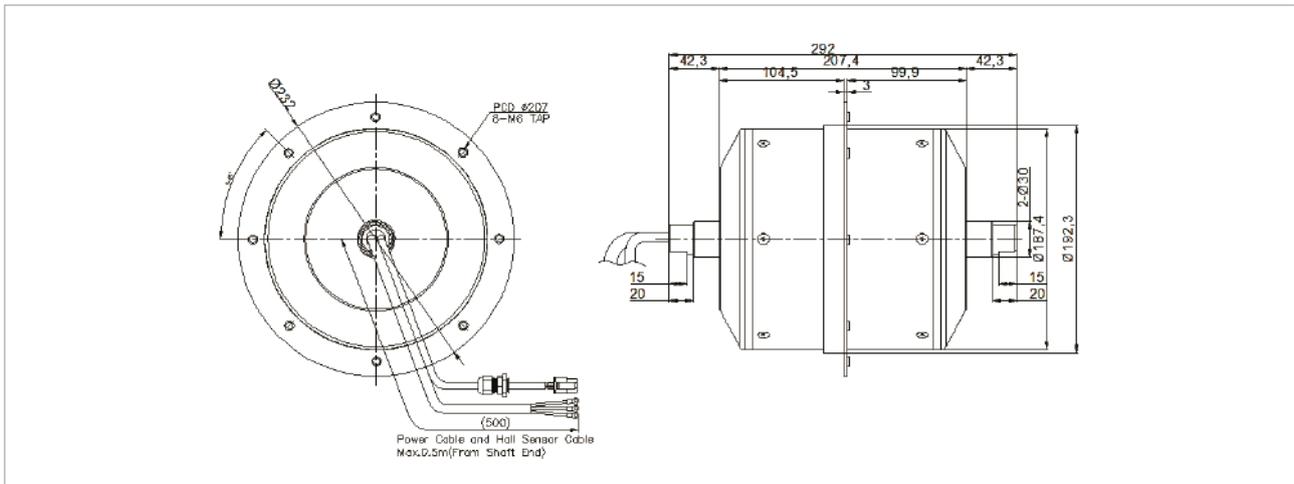
EC Motor

— Sirocco 3.0kW Bldc Motor

- HBL-S3.00A
- Optimized for double-inlet fan applications
- External Hall sensor-type controller
- Optimized NVH performance and easy speed control
- Robust electronic quality and high environmental resistance
- Overcurrent protection via current-limiting function



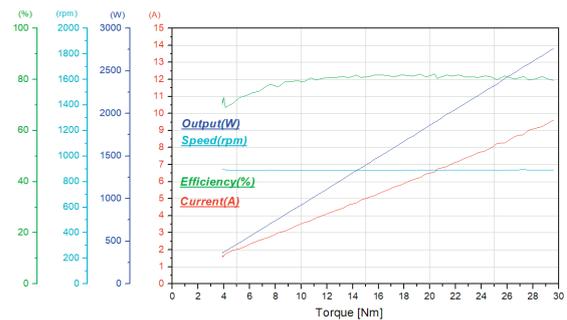
DIMENSION



MOTOR SPECIFICATION

| Motor | HBL-P3.00A |
|-----------------------|--------------|
| Rated voltage | 440VAC |
| Rated current | 6.5A |
| Rated power | 1,900W ± 10% |
| Rated torque | 20Nm |
| Rated speed | 900rpm |
| Control method | Sensorless |
| Insulation class | F중 |
| Operating Environment | -25°C~50°C |

TNI Curve graph



O-Yang Kongjoki Co., Ltd.

135 Industrial Complex, Danwon-gu, Ansan-si, Gyeonggi-do (B1-89)

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E-MAIL. oyang@oyk.co.kr