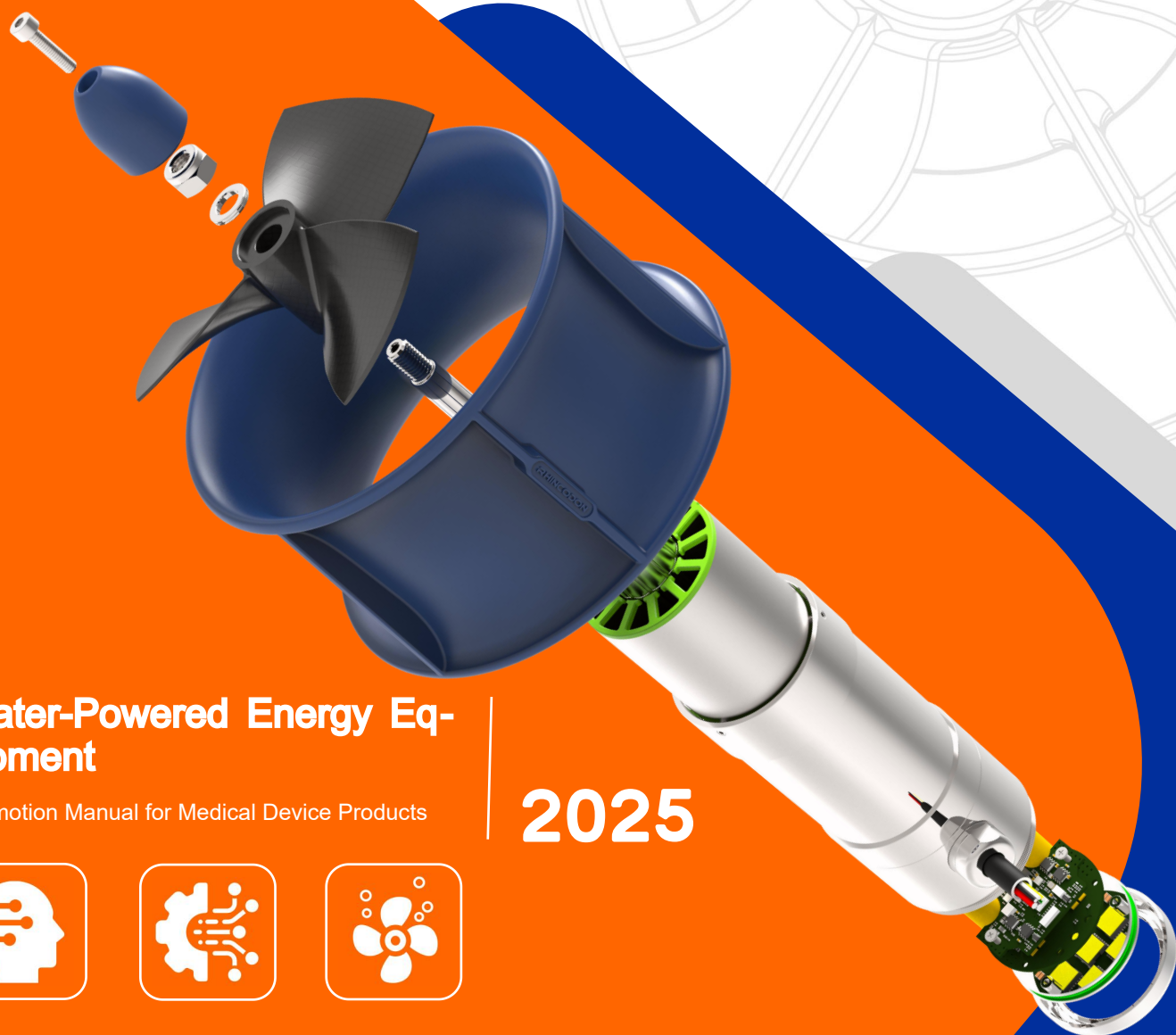




Water-Powered Energy Equipment

Promotion Manual for Medical Device Products

2025



THRUSTER

Manufacture

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**SEIKEO DRIVES
THE FUTUER**

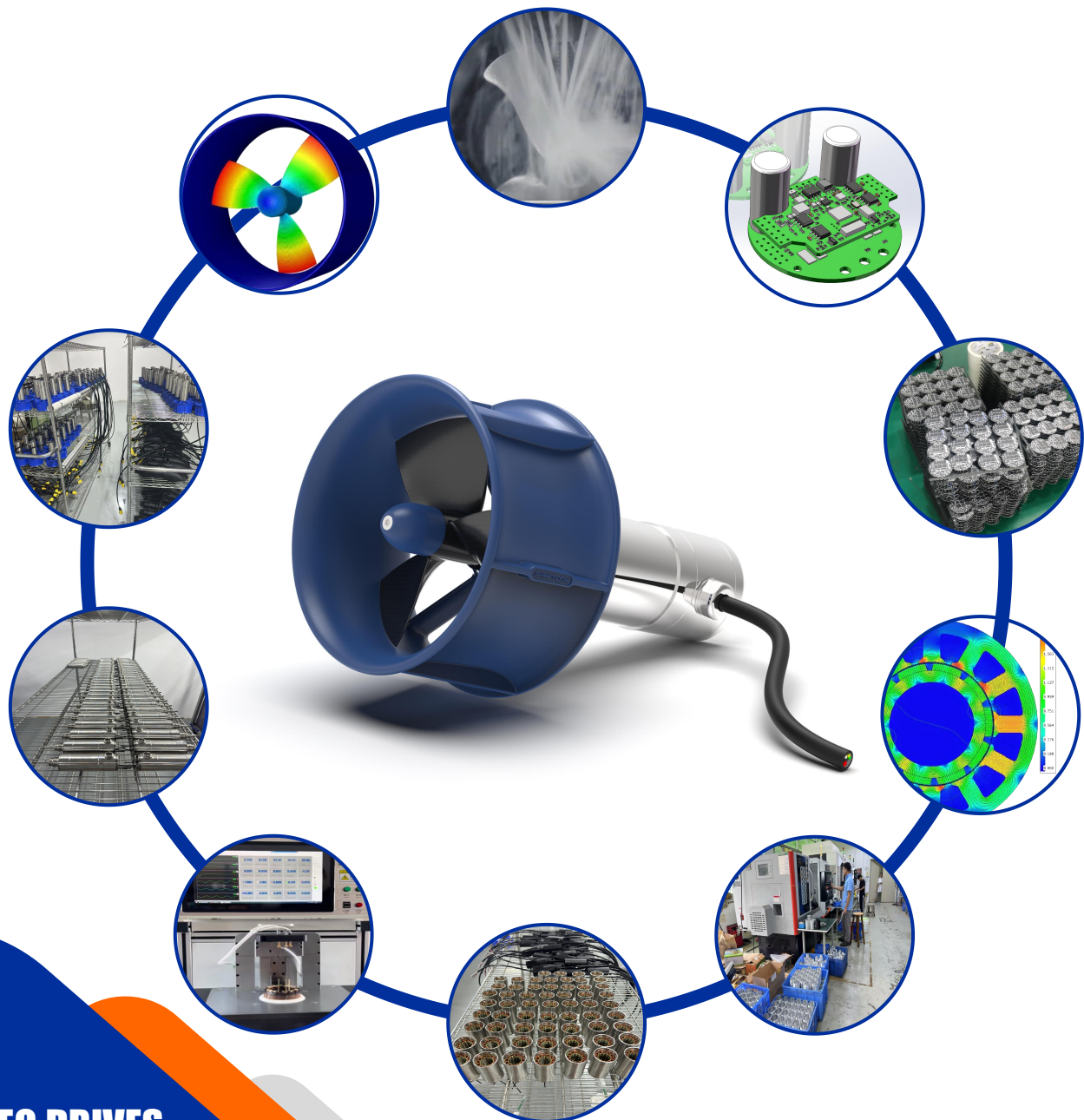


Both functional and intriguing; mastery lies in the artisan's heart.

FULL PROCESS

Production Close Loop

Ruideng is dedicated to every aspect of underwater propeller manufacturing, committed to producing internationally recognized high-quality, premium electric brushless underwater propellers. Through years of R&D accumulation, we have established a closed-loop production system for underwater propellers that encompasses the entire manufacturing process—from design and R&D-driven circuit development and CFD simulations to propeller machining, motor core fabrication, and stator coil winding. This integrated approach constitutes a key technological advantage in Ruideng's propeller manufacturing capabilities.



THRUSTERS PRODUCT SEARCH ENGINE GUIDE & TECHNICAL PARAMETERS >>>

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UNDERWATER THRUSTER

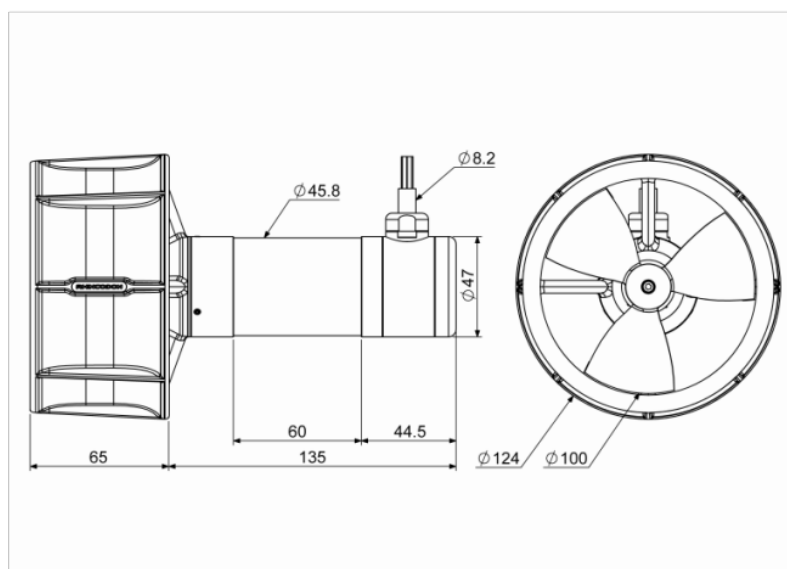
D4815



Parameter Introduction

- Motor type: Internal rotor brushless motor
- Operating voltage: 48VDC
- Rated thrust: Front 15 Kgf / Rear 10 Kgf
- Rated power: 650 W
- Rated speed: 3200 rpm
- Working water depth: ≤ 300 m
- Control signal: PWM/CAN dual throttle
- Communication method: CAN bus (provides communication protocols)
- Feedback data: Speed, current, temperature, drive board status, fault code
- Drive type: Built-in FOC drive
- Protection mechanisms: Overcurrent, overheating, undervoltage, locked rotor
- Sealing method: Fully sealed (maintainable)
- Shell material: 316L stainless steel
- Propeller material: Carbon fiber composite
- Propeller configuration: CW/CCW
- Flow guide cover material: POM
- Cable material: TPU (polyurethane)
- Cable specifications: Outer diameter 8.2 mm, length 1.5 m; Inner core: 2x1.5 mm² + 2x2x22 AWG
- Net weight: 1585 g

Unit: mm (millimeters)

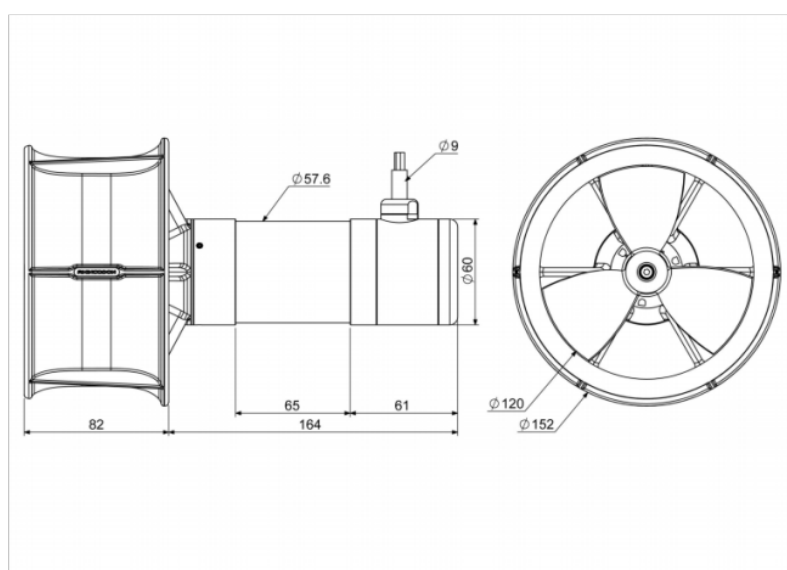


D4825

Parameter Introduction

- Motor type: Internal rotor brushless motor
- Operating voltage: 48VDC
- Rated thrust: Front 25 Kgf / Rear 20 Kgf
- Rated power: 1.2 kW
- Rated speed: 2900 rpm
- Working water depth: ≤ 300 m
- Control signal: PWM/CAN dual throttle
- Communication method: CAN bus (provides communication protocols)
- Feedback data: Speed, current, temperature, drive board status, fault code
- Drive type: Built-in FOC drive
- Protection mechanisms: Overcurrent, overheating, undervoltage, locked rotor
- Sealing method: Fully sealed (maintainable)
- Shell material: 316L stainless steel
- Propeller material: Carbon fiber composite
- Propeller configuration: CW/CCW
- Flow guide cover material: POM
- Cable material: TPU (polyurethane)
- Cable specifications: Outer diameter 9.0 mm, length 1.5 m; Inner core: 2x2.5 mm² + 2x2x22 AWG
- Net weight: ≈ 2600 g

Unit: mm (millimeters)



UNDERWATER THRUSTER

D4835

Parameter Introduction

- Motor type: Internal rotor brushless motor
- Operating voltage: 48VDC to 60VDC
- Rated thrust: Front 35 Kg/Back 28 Kg
- Rated power: 1.4 kW
- Rated speed: 2800 rpm
- Working water depth: ≤ 300 m
- Control signal: PWM/CAN dual throttle
- Communication method: CAN bus (provides communication protocols)
- Feedback data: Speed, current, temperature, drive board status, fault code
- Drive type: Built-in FOC drive
- Protection mechanisms: Overcurrent, overheating, undervoltage, locked rotor
- Sealing method: Fully sealed (maintainable)
- Shell material: 316L stainless steel
- Propeller material: Carbon fiber composite
- Propeller configuration: CW/CCW
- Flow guide cover material: POM
- Cable material: TPU (polyurethane)
- Cable specifications: Outer diameter 10 mm, length 1.5 m; Inner core: 2x3 mm²+ 2x2x22 AWG
- Net weight: ≈ 3500 g

Unit: mm (millimeters)

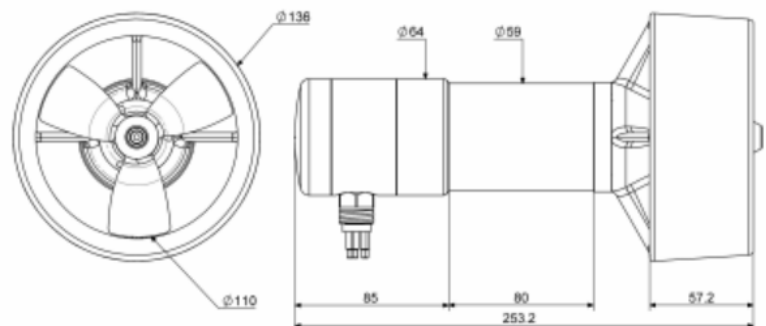


D30020C

Parameter Introduction

- Motor type: Internal rotor brushless motor
- Operating Voltage: 300 VDC
- Rated thrust: Front 22 Kg/Back 16.5 Kg
- Rated power: 900 W
- Rated speed: 3500 rpm
- Working water depth: ≤ 400 m
- Control signal: PWM/RS485 dual-mode
- Communication method: RS485 (communication protocol provided)
- Feedback data: Speed, Power, Temperature, Drive board status, Fault code
- Drive type: Built-in FOC drive
- Protection mechanisms: Overcurrent, overheating, undervoltage, locked rotor
- Sealing method: Fully sealed (maintainable)
- Shell material: 316L stainless steel
- Propeller material: 316L stainless steel
- Propeller configuration: CW/CCW
- Flow guide cover material: POM
- Connector: MCBH8 M-type (316L stainless steel)

Unit: mm (millimeters)



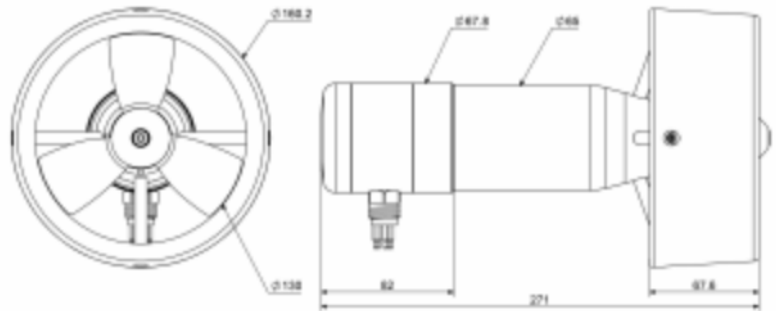
UNDERWATER THRUSTER

D30030C

Parameter Introduction

- Motor type: Internal rotor brushless motor
- Working voltage: 30 VDC
- Rated thrust: Front 31 Kg/Back 26.5 Kg
- Rated power: 1.3 kW
- Rated speed: 2800 rpm
- Working water depth: ≤400 m
- Control signal: PWM/RS485 dual-mode
- Communication method: RS485 (communication protocol provided)
- Feedback data: Speed, Power, Temperature, Drive board status, Fault code
- Drive type: Built-in FOC drive
- Protection mechanisms: Overcurrent, overheating, undervoltage, locked rotor
- Sealing method: Fully sealed (maintainable)
- Shell material: 316L stainless steel
- Propeller material: 316L stainless steel
- Propeller configuration: CW/CCW
- Flow guide cover material: POM
- Connector: MCBH8 M-type (316L stainless steel)

Unit: mm (millimeters)

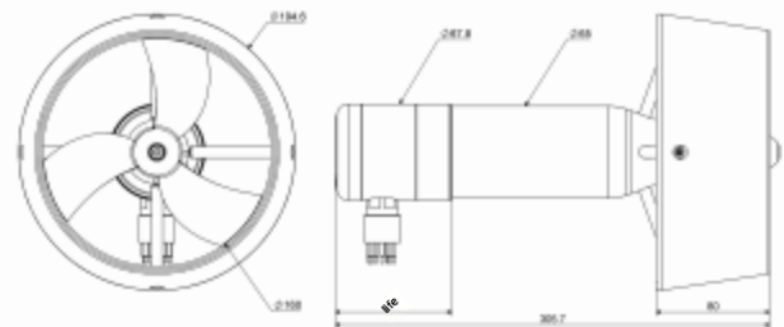


D11050C

Parameter Introduction

- Motor type: Internal rotor brushless motor
- Operating Voltage: 110 V DC
- Rated thrust: Front 52 Kg/Back 35 Kg
- Rated power: 2.2 kW
- Rated speed: 2200 rpm
- Working water depth: ≤ 500 m
- Control signal: PWM/RS485 dual-mode
- Communication method: RS485 (communication protocol provided)
- Feedback data: Speed, Power, Temperature, Drive board status, Fault code
- Drive type: Built-in FOC drive
- Protection mechanisms: Overcurrent, overheating, undervoltage, locked rotor
- Sealing method: Fully sealed (maintainable)
- Shell material: 316L stainless steel
- Propeller material: 316L stainless steel
- Propeller configuration: CW/CCW
- Flow guide cover material: POM
- Connector: MCBH12M socket (316L stainless steel)

Unit: mm (millimeters)



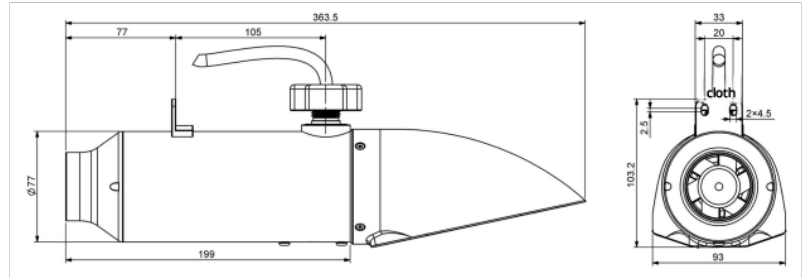
SPEED THRUSTER

ME208B

Parameter Introduction

- Motor type: Internal rotor brushless motor
- Working voltage: 32 VDC
- Maximum Thrust: 10 Kg
- Rated power: 900 W
- Rated speed: 5300 RPM
- Applicable hull: Length ≤ 80 cm
- Applicable ship weight: ≤ 28 kg
- Maximum speed: 7 m/s
- Weeds and debris: Removable for cleaning
- Working water depth: 10 m
- Control signal: PWM/CAN dual throttle
- Sealing method: Fully sealed
- Shell material: Aluminum alloy + plastic
- Propeller material: Aluminum alloy
- Output method: Direct cable output
- Cable material: TPU (polyurethane)
- Cable specifications: Outer diameter 8.5 mm, length 1 m, inner core $3 \times 2.0 \text{ mm}^2$
- Driver: External FOC driver

Unit: mm (millimeters)

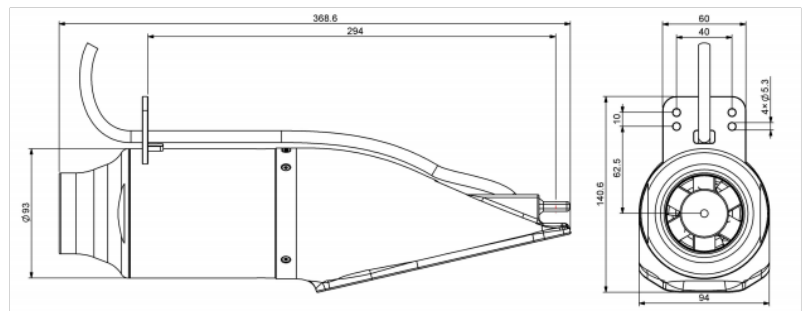


ME210B

Parameter Introduction

- Motor type: Internal rotor brushless motor
- Working voltage: 32 VDC
- Maximum Thrust: 15 Kg
- Rated power: 1.1 kW
- Rated speed: 4000 RPM
- Applicable hull: Length ≤ 110 cm
- Applicable ship weight: ≤ 35 kg
- Maximum speed: 6.5 m/s
- Weeds and debris: Removable for cleaning
- Working water depth: 10 m
- Control signal: PWM/CAN dual throttle
- Sealing method: Fully sealed
- Shell material: Aluminum alloy + plastic
- Propeller material: Aluminum alloy
- Output method: Direct cable output
- Cable material: TPU (polyurethane)
- Cable specifications: Outer diameter 8.5 mm, length 1 m, inner core $3 \times 2.0 \text{ mm}^2$
- Driver: External FOC driver

Unit: mm (millimeters)



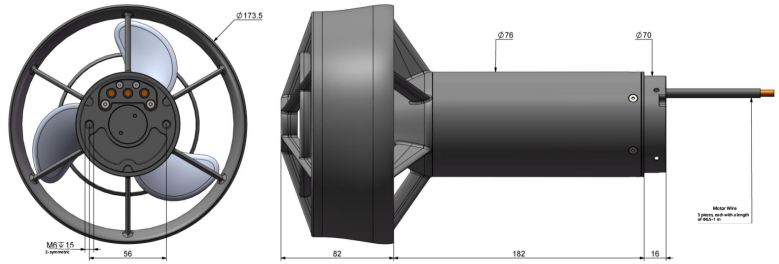
SPEED THRUSTER

SA660F

Parameter Introduction

- Motor type: Internal rotor brushless motor
- Operating voltage: 60 VDC
- Thrust: Positive 50.0 Kgf / Negative 25.0 Kgf
- Rated power: 5500 W
- Rated speed: 4000 RPM
- Maximum load capacity: ≤ 300 kg
- Maximum speed: 35 km/h
- Working water depth: 10 m
- Control signal: PWM/CAN dual throttle
- Communication method: CAN bus (provides communication protocols)
- Feedback data: Speed, voltage, power, motor temperature, driver temperature
- Fault Code
- Sealing method: Fully sealed
- Shell material: Aluminum alloy
- Propeller material: Aluminum alloy
- Cable outlet method: Direct cable outlet
- Driver: External FOC driver

Unit: mm (millimeters)





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