

The Subsea Thruster & Propulsion Specialists

Key Features

- Anodized aluminum construction
- Ceramic Seal Liner
- Pressure Compensation
- Efficient dual direction Propeller
- Kort Type Nozzle for increased Thrust
- Option control configurations



Model SSE050-101

The SSE050-101 DC Brushless Permanent Magnet Subsea Thruster of MPS design offers a Reliable, Powerful thruster unit designed for full ocean depth with positive pressure compensation manufactured from anodized aluminum.

Standard Aluminum (hard anodised) construction with optional 316 Stainless Steel and Titanium housings and Fitted with various subsea type connectors as requested by the customer. Units utilize the MPS Motor Controller offering +/- 10V, RS485 +/- 10V and CAN open control options.

The SSE050 Series can accept 48 to 120 Vdc main power (other on request).

Using direct e-motor drives with no planetary gear reductions results in **"Silent"** and **"Reliable"** operation with lightweight & compact designs at competitive pricing.



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Model SSE050-101 Rated @ ½ Hp (375 Watts)

• Voltage DC Options	48 – 120 Vdc
• Running Motor Current	10.4 amps @ 48 Vdc
• Torque at 3200 Rpm	11.31 in-lbs (1.12 Nm)
Thrust Developed	At zero speed of advance
• Forward	21.5 lb-f (9.8 Kgf)
• Reverse	17.2 lb-f (7.8 Kgf)
• Propeller Tip Speed	5236 ft/min (27 m/sec)
Unit Weight	
• In Air	8.8 lbs (4.0 Kgs)
• In Water (Sea)	6.8 lbs (3.1 Kgs)
Depth Rating (600M Standard)	Full Ocean Depth with units oil filled and pressure compensated. Motor Controller to be mounted in one Atmosphere Housing.
Dimensions	Body (OD) - 2.75 in. (70.0 mm) Length - 9.45 in. (240.0 mm) Prop Dia - 5.52 in. (140.0 mm) Nozzle (OD) – 7.00 in. (178.0 mm)
Control Signal	+/- 10Vdc or Master Controller with built-in CANopen library for full control and serial interfaces.
Connector Type	Subconn Type – 8 Pin (FS or MP)
Nozzle Type	Type 19B Kort Design (Type 37 optional)
Features: Speed / direction signal and DC line voltage only required	SCE A – Main Power, 12Vdc control power, +/- 10V speed signal (Standard) SCE B – Main Power, RS485, +/- 10Vdc SCE C – Main Power, RS485, CANopen