

# SIDE-POWER

## Thruster systems



## Product Specifications SP 75 Ti IP



### Description

Typical boat size:	35 - 48 foot
Tunnel inside diameter:	185mm / 7.3"
Propulsion system:	Twin
Available for DC system:	12V or 24V
Weight:	21kg/46.3lbs.

### Ignition Protected Features:

- Certified and individually tested to ISO 8846 Igniton Protected standards
- Water Proof (not for fully submerged mounting due to corrosion of metal parts)
- Stainless cable seals
- Secondary overheat switch secures general temperature in housing
- Rugged plastic housing in V0 self extinguishing material
- Supplied with 100 cm/39.4 in main power cables and bulkhead mount terminals for easy and safe hook up of power supply
- Supplied with 10 m/32.8 ft control cable with connector for connection outside or ignition protection area

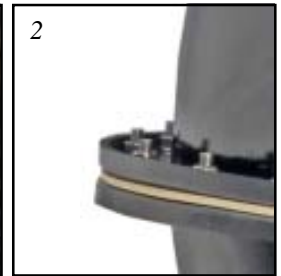
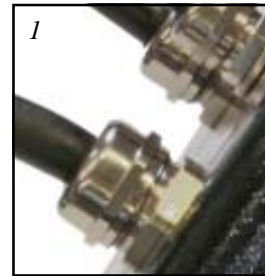
The SP75Ti IP suits a wide range of boats around the 12m/40' mark and is thereby a very popular model. Utilizing the same mechanical parts as the even more powerful SP95Ti IP, the reduced power makes it an exceptionally energy efficient thruster demanding less from the electric installation as well as being a very cost efficient model with a compact installation size. The **SP 75 Ti IP** includes all the important and unique **Side-Power** features and qualities - **why settle for less.**

#### Easy and safe to install:

- Pre-fitted main power cables and termination terminals to fasten on a bulhead nearby is included. Provides safe and easy power connection.
- Plug and go control wiring.
- Fast, easy and safe fitting of propeller with lock-nut as opposed to difficult and unreliable set-screw fastening.
- Self aligning drilling template available for OEM customers.
- All sharp edges removed to avoid installers getting injuries.

1. Robust stainless cable seals ensures troublefree electrical connections

2. Ignition protected housing still retains serviceability for internal components



### Gearleg:

- Seawater resistant bronze, CNC machined in one process to ensure 100% correct tolerances, angles and measurements.
- Oil filled with header tank and breathing to ensure long lifetime and no contamination of oil.
- Marine grade seals with protective lip and mechanically protected by special propeller hub design. Hardened and ground precision spiro-conical gears.
- Propeller shaft with double ball bearings fitted in correct tolerances.
- Driveshaft with ball bearing and special sleeve bearing in correct tolerances.
- Connection between motor and driveshaft by flexible coupler.
- Symmetrical 4 bladed composite kaplan propeller.
- Zinc anode protection directly on gearleg, easy to access and change.

### Performance and specifications at one tunnel diameter depth\*:

	at 10,5V/21,0V	at 12,0V/24,0V
Thrust	75kg/167lbs.	< 94kg/207lbs.
Output power:	4.4kW/6Hp	< 5.7kw/8,4Hp
Average Current draw:	500A/240A	260A/300A
Continous run time (20°C):	3 min	>2.5 min
Approx. long term run time:	8 % of time	5 % of time
Min. battery CCA rating:	500/250 by DIN or 900/450 by BCI/SAE	
Sidepower fuse size:	ANL400/ANL250	

#### Notes !

\* Actual performances, current consumption etc. will vary for each installation depending on many factors. Specifications here given at one tunnel diameter depth and with voltage at thruster as shown. If you install deeper the thrust will be more as well as the current consumption, and the running time will be reduced. Electromotors power and efficiency tolerances are +/- 6%.



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Measurements ref. mm / inch	SP75 Ti IP
<b>A</b>	299mm / 11,77"
<b>B</b>	256mm / 10,08"
<b>C</b>	200mm / 7,87"
<b>D</b>	337mm / 13,3"
<b>E</b>	ø300mm / 11,8"
<b>F</b>	ø200mm / 7,84"
<b>G</b>	6x ø10,5mm / 0,41"
<b>H</b>	ø129mm / 5,08"
<b>Inside tunnel dia.</b>	185mm / 7,28"
<b>Max. stern thickness</b>	54mm / 2,13"
<b>Motor output</b>	4,4 KW / 6 HP
<b>Voltage</b>	12 / 24 Volt

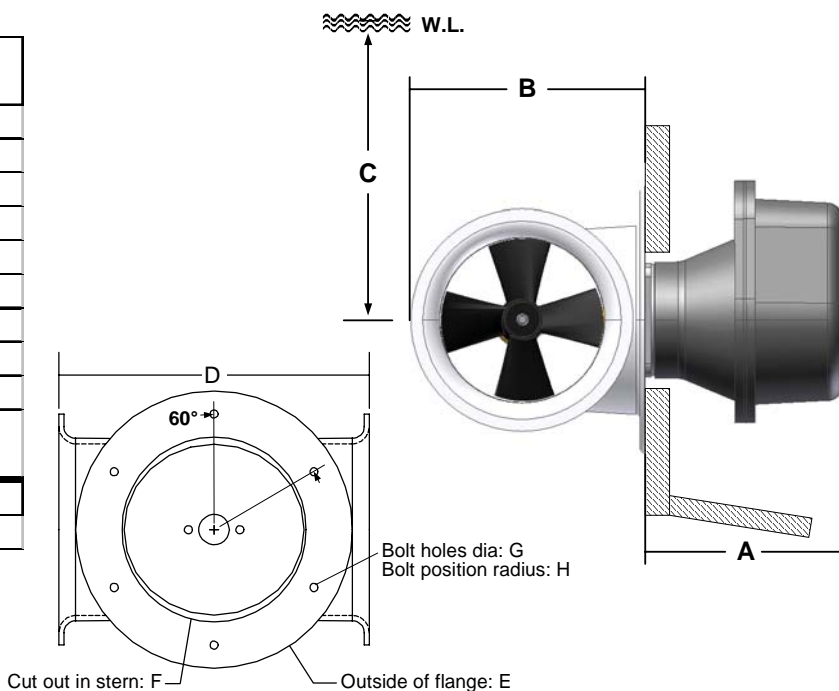


Table for selection of main cable, battery, fuse and main-switch sizes.			up to 7m total + & -		7 - 14m total + & -		14 - 21m total + & -		21 - 28m total + & -		28 - 35m total + & -		36 - 45m total + & -	
Model	Voltage	Current draw	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by Din	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by Din	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by Din
SP 75 Ti	12 V	480 A	50 mm <sup>2</sup> O	550 CCADin	95 mm <sup>2</sup> OOO+	550 CCADin	120 mm <sup>2</sup> OOOO+	550 CCA Din	150 mm <sup>2</sup> 2xOOO	600 CCA Din	N / A		N / A	
	12V Extr.batt *	300 A	N / A		50 mm <sup>2</sup> O	300 CCADin	70 mm <sup>2</sup> OO+	300 CCA Din	95 mm <sup>2</sup> OOO+	350 CCA Din	120 mm <sup>2</sup> OOOO+	350 CCADin	150 mm <sup>2</sup> 2xOOO	350 CCA Din
	24 V	240 A	35 mm <sup>2</sup> 2	300 CCADin	35 mm <sup>2</sup> 2	300 CCADin	50 mm <sup>2</sup> O	300 CCA Din	70 mm <sup>2</sup> OO+	350 CCA Din	95 mm <sup>2</sup> OOO+	350 CCADin	120 mm <sup>2</sup> OOOO+	350 CCA Din

#### Safety features on thruster (see separate sheet for control panels):

- Forced shut-down by overheat sensor in motor
- All internal leads with extra insulation of webbed silicon increase resistance to heat and mechanical wear. Connectors have positive locking so that you have to pull by the insulator to release, can not be pulled off by the wires or loosen by themselves. Self extinguishing solenoid cover.
- IPC Standard electronic control box for protection against:
  - direct drive direction change
  - unique, patented protection of solenoid from extra wear and damages in low voltage situations for example caused by drained or damaged batteries as well as "auto-stop" without the need for the skipper to shut down the main switch immediately to stop the thruster in case of a solenoid lock-in \*
  - auto-stop if control signal is continuous for more than 3 minutes to protect against potential short circuit in control cables.

Notes !

\* New patented safety features in the thruster controlbox will be available in 2005 model year units.

This document may contain typographical errors, to which Sleipner Motor assumes no responsibility.



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