SIDE-POWER
Thruster Systems

Product Specifications SE 150/215 T

The SE 150/215T meets the requirements of the modern yachts - high power in a compact tunnel diameter. The SE150/215T is our most powerful alternative for the compact 215mm tunnel diameter.

*The **SE150/215T** includes all the important and unique **Side-Power** features and qualities - **why settle for less**.*

Easy and safe to install:

- *Easy access terminals for easy, fast and safe fitting of main battery cables (as opposed to having to fit directly onto "crowded" solenoid studs. Own by overheat sensor in motor.*
- *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.*

Description:

Typical boat size	44 - 64 foot / 14 - 20m
Tunnel inside diameter	215mm/8,5" (see back for more measurements)
Propulsion system	Twin
Available for DCsystem	24V
Weight	38kg/79lbs.

Gearleg:

- Seawater resistant bronze, CNC machined in one process to ensure 100% correct tolerances, angles and measurements. Galvanically insulated from motor and motorbracket.
- Sealed gearleg with long-life "mechanical" seal where polished ceramic and carbon surfaces form the only moving sealing surfaces, ensuring protection against damaging water intrusion into gear leg.
- Lifetime lubricated with special gear-oil.
- 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
- 5 bladed composite "Q-prop" propellers, skew design.
- Zinc anode protection outside propellers, easy to access and change.
- Gearleg galvanically insulated from bracket/motor

Performance and specifications*:

	At 21V	**At 24V**
Thrust	150kg/330lbs.	< 182kg/400lbs.
Output power	8,8kW/11.8 Hp	< 9,7kW/12,3Hp
Average current draw	560A	< 616A
Continous run time (20^{0}C)	3 min.	> 2,5 min.
Approx. long term run time	10% of time	6% of time
Min. battery CCA rating 24V	560 CCA DIN/760 CCA SAE	
Sidepower fuse size:	ANL500	

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 !

* Actual thrust performances and current consumption 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%.

** Patented safety features in the thruster controlbox.

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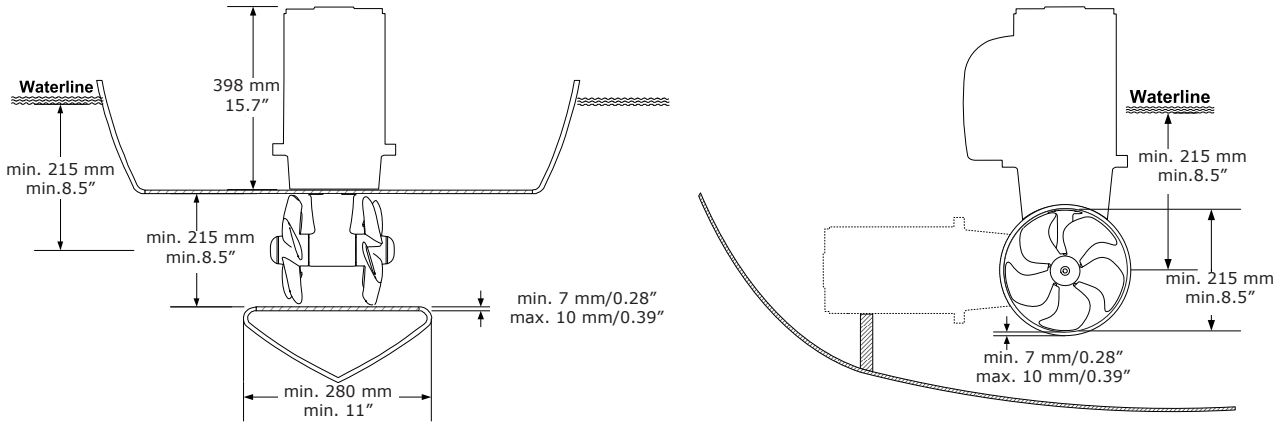
Installation planning



Battery & cable recommendations:

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
SE150/215T	24V	560A	70mm^2 OO+	600 CCA DIN 1150 CCA SAE	95mm^2 OOO+	600 CCA DIN 1150 CCA SAE	120mm^2 OOOO+	600 CCA DIN 1150 CCA SAE	2x70mm^2 2xOO+	600 CCA DIN 1150 CCA SAE	2x95mm^2 2xOOO+	650 CCA DIN 1250 CCA SAE	2x120 mm^2 2xOOOO+	650 CCA DIN 1250 CCA SAE

Minimum and recommended cable dimensions can be identical due to safety margins and cable heat considerations for short cable lenghts.

* Minimum or recommended cable cross section in mm^2

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

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