



AC PROPULSION MOTORS MARINE & OFFSHORE

Introduction

Today, Nidec ASI is one of the world's leading suppliers of synchronous and induction motors to be used for propulsion applications. Our commitment to engineering and innovation allow us to design solutions to specifically fit our customers' requirements.

Main characteristics

We have significant experience in designing machines to meet stringent structural borne noise and vibration requirements.

Our engineering team works with the most modern programs and data analysis systems available today. The result is a series of propulsion motors with one of the lowest predicted noise vibration spectra on the market.

Our analysis methods and design techniques are based upon years of experience in special vessel applications (oceanographic research vessels, naval vessels, cruise ship vessels) and measurements performed on both rigid and elastically mounted machines.

The machines are insulated using our **MICASYSTEM®** VPI process. Micasystem® VPI insulation system is one of the best on the market.

This system is based on a special mica tape and a blend of solventless epoxy resins. Due to its outstanding dielectric and technical properties this class F insulation system is qualified for use in aggressive environments and is particularly suitable for marine applications, ensuring a high level of reliability over the entire life cycle.

Technical data

- Power rating: 1,500 – 24,000 kW
(1,500 – 18,000 HP)
- Voltage: up to 7,200 kV
- Mass: 14,000 – 160,000 kg
- Frame size: 800 mm – 13
- Pole number: 8 – 16
- Cooling method: IC 86W

