

Performance and reliability on board with the marine certified ACS880 industrial drives



Our marine certified ACS880 drives provide reliable operation and performance where it's needed the most. They offer accurate speed and torque control for wide range of motor types, and help you save fuel and lower emissions. The ACS880 drives are now also available with a marine specific 440 V voltage.



Power and productivity
for a better world™



Marine certified ACS880 drives

ACS880 drives fulfill marine and offshore requirements, and the design and operation comply with regulations from all major classification societies including DNVGL, RINA, Class NK, ABS, Lloyd's, BV and CCS. The drives are available for new installs and retrofits of various marine applications including thrusters, winches, deck cranes, pumps, and HVAC systems.

Excellent suitability to marine environment

Vibration dampers, coated circuit boards and extended operational temperature offer excellent suitability to humid conditions on the sea. Controllable cooling fans and incoming air temperature measurement further reduce operating environment related failures.

The all-compatible drive

Efficient and environmental friendly ACS880 drives are compatible with various motor types and therefore suitable for many marine applications. Compact installation and maintenance with the support of all major fieldbuses allows easy commissioning in all locations.

Accurate, precise control without an encoder

The direct torque control (DTC) technology used in the ACS880 drives facilitate accurate control of speed and torque without rotary encoder feedback from the motor shaft. This reduces your encoder related maintenance risks and costs.

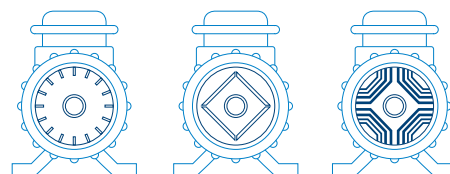
Safe operation

Safe torque off is built-in as standard in the drive. An optional safety functions module provides additional safety functions achieving up to SIL 3 or PL e safety level.

ACS880 drives key features:

- Help you save energy and fuel
- Control a wide range of motor types
- Include direct torque control technology for accurate speed and torque control without encoders
- Reduce noise and vibrations in motor installations
- Robust and compact design
- Global support, life cycle services and strong application expertise back our offering

Smooth torque over the entire speed range helps reduce noise and vibrations with various motor types including induction, permanent magnet and synchronous reluctance



Marine certified ACS880 drives are available with power range from 0.55 to 630 kW and voltages from 208 to 690 V including marine specific 440 V.

Supply connection	
Voltage range	3~ U_{N2} = 208 to 230 V 3~ U_{N3} = 380 to 415 V 3~ U_{N4} = 440 to 480 V 3~ U_{N5} = 500 to 525 V 3~ U_{N7} = 525 to 690 V +10/-15 %
Power range	0.55 to 630 kW
Frequency	50/60 Hz \pm 5 %
Connections	
Motor types	Asynchronous induction, permanent magnet and synchronous reluctance motors
Type of control	Direct torque control (DTC) or scalar control
Environmental limits	
Degree of protection	IP00, IP20, IP21, IP55
Ambient temperature	Operation -15 to +55 °C (45 to 55 °C with derating)

For more information please contact your local ABB representative or visit:

www.abb.com/drives/marine
www.abb.com/marine

© Copyright 2015 ABB. All rights reserved.
Specifications subject to change without notice.