
ABB DRIVES

Marine approved drives for variable speed control

Saving energy and ensuring reliable operation of marine applications with ACS880 wall-mounted 440 V industrial drives



ABB's marine approved 440 V ACS880 wall-mounted variable speed drives for stepless speed control of pumps, fans, compressors, separators and hydraulic power packs used in maritime vessels.

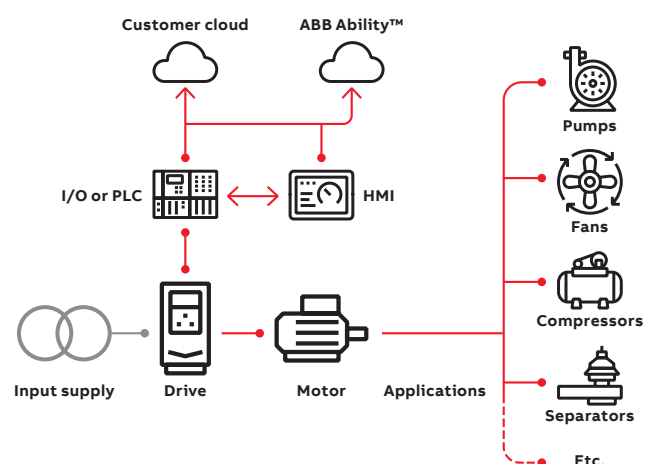


Wall-mounted ACS880-01 440 V drives

The premium and reliable drive for marine environments

ACS880 440 V wall-mounted drives are part of the ABB industrial drives family. They cover a power range from 0.55 to 250 kW. The drives support virtually any type of motor including asynchronous, permanent magnet and SynRM motors. The stepless speed control increases energy efficiency and reduces the wear placed on mechanical systems. The compact design of the drives makes it easy to fit them into narrow spaces. The drives offer IP21 or IP55 enclosure for harsh environments.

The ACS880 drives unprecedented levels of compatibility and flexibility during the design and commissioning phase of the application. With a range of control panels to choose from, the user will have ease of use available at their fingertips. The drive connects smoothly to automation via a wide range of fieldbus options.



For more information visit:

new.abb.com/drives/segments/marine

new.abb.com/drives/low-voltage-ac/industrial-drives/acs880-single-drives/acs880-01

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

Fulfilling marine requirements

The ACS880 drives are designed for essential and non-essential requirements used in ocean carriers and similar types of vessels. The ACS880-01 440 V drives are certified by most international marine certification institutes.



The order codes for the ACS880-01 440 V marine variants are:

- Marine type approval: ACS880-01-XXXXA-4+C132 (for non-essential applications)
- Marine product certificate: ACS880-01-XXXXA-4+C132+C20X (for essential applications)

Other voltage ranges (400 V, 500 V, 690 V) are also available with marine approvals.

All-compatible drive with built-in features

- The built-in features in the ACS880-01 drive includes:
 - PID control for any type of control process need
 - Block programming or IEC programming capabilities for extending of logic
 - Standstill heating, to avoid condensation in motors
 - Motor thermistor input PTC/PT100 for motor temperature supervision
 - Safe torque off (STO) for emergency stop operation

Options include:

- Vibration dampers +C131 (not to be used in cabinet design)
- I/O extension module options and encoder options
- Dynamic braking option for external braking resistor
- EMC filters for IT Networks onboard
- ABB Ability™ for connectivity gateways
- Supporting a wide range of fieldbus protocols

All the parameters and settings in the drive are stored in an easy to remove memory unit.



We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB. Copyright© 2023 ABB. All rights reserved.