



Electrically driven deck winches with ACS880 industrial drives

Performance. Speed. Reliability. Everything counts.

Anchoring and mooring often involves low-speed, high-torque situations on heavy vessels. With the help of application expertise gained over many years, we've developed drives that overcome the winching challenges and enable precise, dependable and smooth operation of new winch installations and retrofits of old winches.

1

Winch control included in the drive
No need for external controllers

4

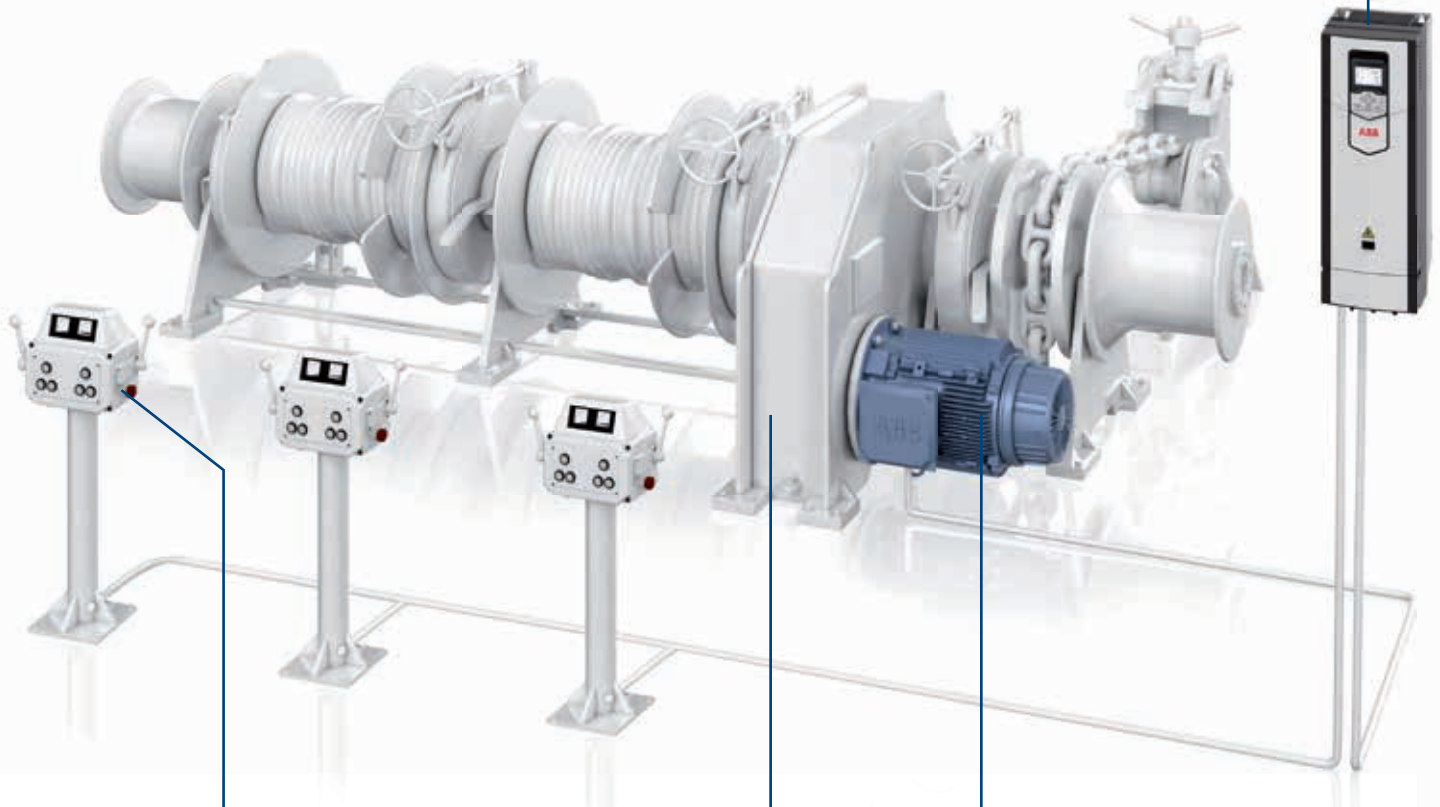
Multiple control stands
connect directly to the drive

3

Automooring is possible
without a load cell sensor

2

Full control of speed and torque
without a shaft encoder

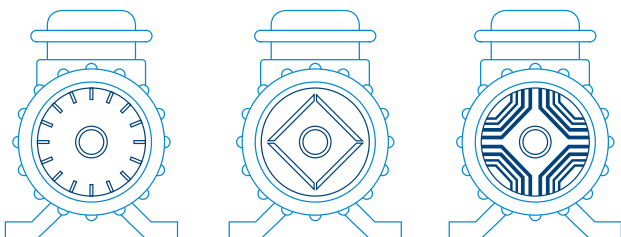




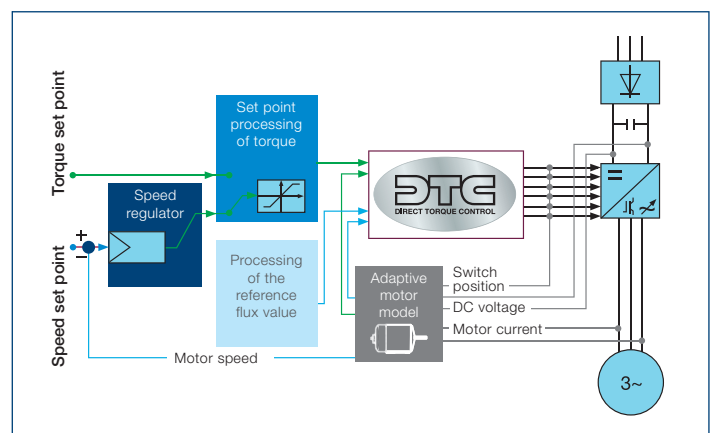
ACS880 product family is available with power range from 0.55 to 5600 kW and voltages of 400, 500 and 690 V. Enclosure class options are IP20, IP21 and IP54.

ACS880 drives for new installs and retrofits

- ACS880 drives fulfill marine and offshore requirements, and the design and operation comply with regulations from all major classification societies.
- Built-in anchor, hand mooring and automooring parameter sets.
- Stand-alone operation with a single winch system, and master-follower operation for controlling multiple winches.
- Support for all common control stand interfaces.
- Adaptive block programming inside the drive for creating custom features.
- Control various motor types including induction, permanent magnet and synchronous reluctance motors.



The combination of direct torque control (DTC) and winch control program eliminates the need for motor shaft encoders and gearbox load cell sensors



Direct torque control (DTC) technology facilitates the accurate control of speed and torque without rotary encoder feedback from the motor shaft. Through DTC, the winch control program offers higher levels of operational reliability and more precise regulation of lower motor speeds with high torque levels.

Contact us

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

www.abb.com/drives/winches

www.abb.com/drivespartners

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Learn more about
ACS880 winch
control from this
short video.

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