Electrically driven deck winches with ACS880 industrial drives

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

2. Full control of speed and torque  
   without a shaft encoder

3. Automooring is possible  
   without a load cell sensor

4. Multiple control stands  
   connect directly to the drive
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.

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.

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.
Learn more about ACS880 winch control from this short video.

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

www.abb.com/drives/winches
www.abb.com/drivespartners

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