Anchor and mooring winch control system
Anchor and mooring systems are designed for handling anchors and mooring ship. The control system of winches, performs the work manually or automatically. In case of automatic mode, the system activates proper winch actuators so as to maintain constant tension of mooring.

One of the main elements of winch, is a frequency converter, which control the motor coupled with the drum. Due to load sensors and rotational speed, the control system can be adapted to the toughest working conditions. Along with the PLC controller such a system may automatically achieve the appropriate rope tension and adjust the anchor pulling speed (power control) or lowering (electrodynamic braking).

Example of the system control of a motor with encoder.
Electrical diagram of frequency converter wiring.
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