

Hubbell Industrial Controls, Inc.
AC Vector Lift Bridge Control

Series 4960b brochure
June 2000



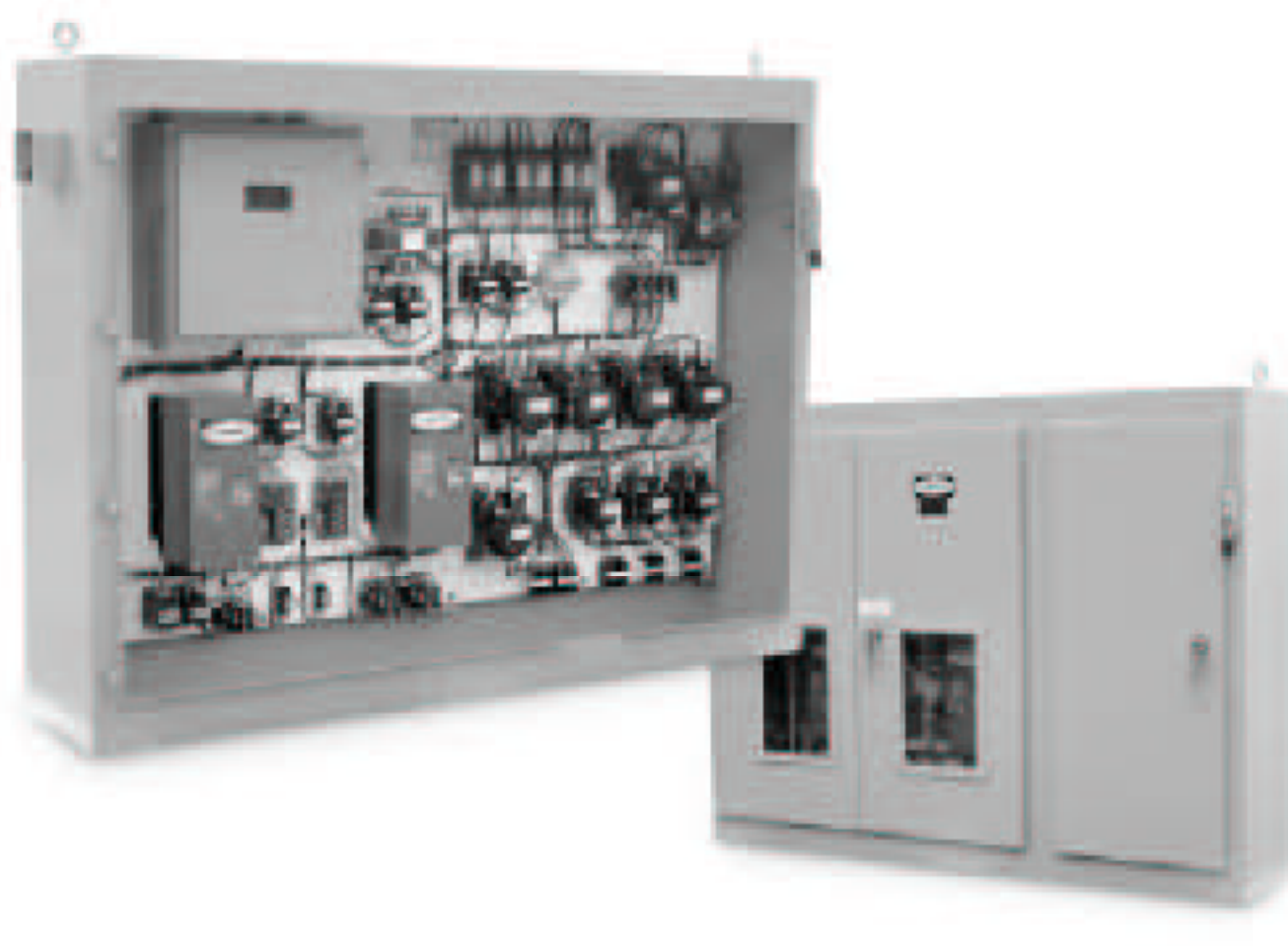
Hubbell Industrial Controls manufactures a variety of controls and accessories for all types of movable bridges. The latest addition to the Hubbell family of controls utilizes solid state vector technology, combined with our many years of designing and manufacturing controllers for movable bridges. During the past two decades, we have provided dozens of bridge controls. We work closely with the customer and A&E to design, manufacture, and ship the controls to the job-site on time. We'll even provide start-up assistance, if you need it. Whether you are designing a new application or planning an upgrade, Hubbell is the name to depend on for lift bridge motor controls.



Hubbell can provide all of your accessory devices for bridge controls. These items include:

- Encoder devices
- Tach-Overspeed devices
- Communications equipment
- Cable Management products, such as Power Trak and Cable Reels
- Primary and Secondary Power Resistors
- Limit Switches, both cam and rotary geared
- Master switches
- Remote radio controls
- Power transfer switches

Hubbell will provide complete controller support, from concept to start up. Let our expert control design engineers take the worry of the details out of your hands.



Model 4961b AC Vector Controller

AC Vector Lift Bridge Control Features

PLC Communications

The drive can be connected serially to most major brands of programmable controllers for easy integration into a system.

Motor and Brake Torque Proving

Precise coordination between motor and brake dramatically extends brake life and lowers maintenance costs. Because the drive completely controls motor torque, a brake is required only for holding and emergency stopping in case of power outages or faults. An adjustable load float time further minimizes brake wear.

AC or DC Inputs and Outputs

On-board, optically isolated converters configure individual inputs and outputs to the control voltage requirements of a particular system. Voltages range from 24V AC/DC to 250V AC/DC. No add-on I/O boards are required.

User-Friendly Setup and Diagnostics

An easy-to-read two-line by 24 character-per-line descriptive display shows setups, readouts, and fault messages in plain English. Faults are logged by time and date with the 50 most recent events being retained for review.

Features & Benefits

Software

- Motor and brake torque proving
- Fast stop
- Preset speeds
- Microspeed positioning control
- Dual upper and lower limit switch inputs
- Torque limit
- Torque limited accel/decel times
- Stepless acceleration/deceleration
- Mechanical resonance filters
- Automatic self-tuning to motor load
- Keypad security lockout

Hardware

- High-speed digital signal processor and patented current regulator provide superior speed and torque control
- Single power drop reduces power distribution requirements
- Twelve-pulse and fully regenerative options for optimal power quality
- True load sharing capability
- Analog voltage or current speed references
- Superior motor protection



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