

Product Specifications: VFD Controller

Functional Specifications

Motion Laboratories' VFD Controller shall be designed to operate modified CM chain hoists at variable speeds.

Features

- The unit shall have Twist Lock L5-15, Input.
- The unit shall have an 6-pin XLR input connector for the joystick input.
- The unit shall have a Harting Ethernet Push/Pull In/Thru for communications.
- The unit shall operate up to 12 modified CM chain hoists.
- The unit shall utilize a Schneider M251 PLC.
- The unit shall be rack mountable.
- The unit shall have a joystick control that will enable the hoist and run the hoists at a variable speed based on what hoist is being used.
- The unit shall utilize a CanOpen communications protocol.
- The unit shall have features including:
 - Positional data feedback
 - Hoist thermal feedback
 - Hoist Current feedback
 - Hoist voltage feedback
 - Frequency and feet per minute feedback

Physical Specifications

The front panel shall have a 19 inch rack width and be constructed of .125 inch thick 5052 aluminum with a black anodized finish. The rear panel shall be 17 inches wide and be constructed of .090 inch thick 5052 aluminum with a black anodized finish. The chassis shall be made out of 18 gauge 1020 steel and have a black satin fine texture powder coat finish.

The unit shall have an approximate weight of 15 lbs.

The unit shall be fully enclosed and have a height of 3RU.

The unit shall have a chassis depth of 15 inches.

The unit shall have a fully grounded chassis.

The unit shall be comprised exclusively of UL Listed/UL Recognized components.

The unit shall be labeled with the following information, using diamond scratch etching, laser etching, and/or molecularly-bonded thermal ink:

- Motion Laboratories name/trademark.
- Electrical and environmental ratings.
- All necessary safety information.
- Optional customer logo.

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Electrical Specifications

The unit shall be designed to operate at 125V.

The unit shall have L5-15 input connector.

Environmental Specifications

The unit shall be NEMA 1 Rated, for indoor use only.

Ratings and Certifications

Motion Laboratories' VFD Controller utilizes UL and/or UR components and is built to the standards of the National Electric Code (NEC).