Specifications:

- High Power IGBTs
- Noise sensitivity
- A.C. Voltages
- HPkW
- Frequency input
- Control method
- Control type
- Output VAC
- Rated Hz
- Speed Range
- Motor requirements
- Speed controls
- Programming method
- Encoder inputs
- Power supply
- Brake relay terminals
- Programmable relays
- Output Hz
- 2 Analog inputs
- Accel/Decel times
- Braking torque
- Overload Capacity
- Motor overcurrent
- Overcurrent protection
- Circuit protection
- Voltage protection
- Heat sink temp
- Tongue Control
- DC bus voltage
- Location
- Enclosure
- Vibration Resistance
- Ambient temperature
- Storage temperature
- Humidity
- Elevation
- Warranty
- 24/7 Support

300% of rated load (FLA) for minimum 5 minutes IGBT spec.

Inherently noise insensitive - no grounding bar needed. **exclusive**!

208,385-415, 230, 460 +/-15%; 240, 480 +/-10% or -20%, 575 +/-10% or -15%.

Popular sizes available off the shelf!

Simply run unloaded hoist UP and the drive sets itself!

All specifications subject to change without notice.

- **24h Support** - factory engineers with toll free number.
- **2 Year Warranty**.
- **4000 feet (1220 meters).**

+4°F to +158°F (-20°C to +70°C).

+4°F to +158°F (20°C to +70°C).

Add sufficient cooling (or de-rate) for higher than 4000 feet (1220 meters).

Up to 3 year Warranty.

24 hour support - factory engineers with toll free number.

All specifications subject to charge without notice.

Micro-Speed® Multi-Vector®

DESIGNED FOR HOIST MODERNIZATION & NEW CRANE APPLICATIONS

- **Quick-Tune**™ No motor/hoist decoupling required! Easy setup includes Gang-Set™
- Superior hardware & software hoist control design • Highest overload & duty cycle available!
- Internal dynamic braking IGBT’s • 50% Higher temperature rating to +60°C 

Up and Down Limit switches can be placed in various locations depending on application requirements. Lights or alarms can be driven by user relays 1 or 2. Two optically isolated analog outputs & serial interface option not shown.

Motors & Encoders also available from Power Electronics International, Inc.

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Micro-Speed® Multi-Vector® Hoist Speed Control

Micro-Speed® Multi-Vector® is an advanced “closed loop” hoist variable speed drive for superior “no load brake” style overhead hoist control. With its high duty cycle rating and ruggedness, all types of a.c. single-speed and wound rotor hoists can now add load insensitive, reliable and safe multi-speed capability. Power Electronics has packaged over 30 years of crane/hoist drive experience into the Multi-Vector® drive.

Multi-Vector® is the hoist industry’s drive of choice. If it’s PE – it’s worry free!

Exclusive PAGE SWAP™ "The feature you will need later–if not today!"

Instead of 1 variable speed drive, you can have up to 10 When running, 9 additional drive parameter lists (PAGES) can be "wrapped" in and out depending on your application requirements. PAGE-SWAP™ is a unique and exclusive feature built into Multi-Vector® drives. Gone are the days you have to be an expert in programming, your crane/hoist processes and applications will gain flexibility. Why be limited? You can have multiple settings of nearly all adjustable parameters and the ability to switch to a completely new set of settings instantly. "On the fly" changes via inputs (limit switch, speed signals, outside switches, etc.) or via conditions met (such as overloads, special speed points, torque set points, adjustable internal timers, etc.) PAGE-SWAP™ is a totally new process. You control what you want! All without computers, PLC’s or other complicated devices! Completely intuitive control and setup, and its powerful PAGE-SWAP™ can be set up differently in the future for ever-changing demands and different applications. No other drive available has this incredible flexibility to safeguard your investment into the future! PE exclusive!

Encoder-Scope™ "Takes the guesswork out of encoder installation!"

Built into the drive is a sophisticated hardware & software tool which will help the installer diagnose any encoder issues. Electronic checking of the quadrature encoder signal wires is accomplished by the Multi-Vector® drive, which reports the results to the installer. It will detect missing or mis-wired connections. Also, Encoder-Scope displays the electromechanical condition of the encoder, including lost signal pulses due to broken encoder electronics, etc. Electrical noise on the wiring can cause incorrect operation from any encoder. Encoder-Scope™ reports this “noise” to the installer for correction. Encoder-Scope™ allows for quick field analysis without the need for complicated oscilloscopes and other testing equipment. Multi-Vector® is truly a "multi-talented" drive! Another PE exclusive!

Zip-Move™

Extends hoist speed on underloaded hook in both UP and/or DOWN directions. Settings are fully user selectable. Actual speed can be varied depending on load on hook.

Multi-Zip-Move™

(option) Run multiple hoists together with this exclusive PE feature which coordinates extended hoist speeds for underloaded hooks.

Slack-Check™

This feature detects slack load condition on the hook and allows stopping of hoist in the down direction. Protects hoist from accidental excessive lowering of hoist blocks and reeving. Can be used for other purposes.

Multi-Float™

Full-featured floating of the load in the safest and simplest manner.

Check-Load™

Fully adjustable monitoring of hoist load. Reduces the possibility of picking overloads.

Brake Test™

Checks integrity of brake before run, after run, or both. Fully adjustable.

Brake Control Check™

Exclusive PE function actually checks for current to the brake contactor coil as one more check for hoist safety. Another PE exclusive safety feature.

Safety-Start™

Hoist cannot be operated without a valid control signal. Includes “electronic” interlock which won’t allow “start” with both the UP and DOWN signals present.

Quik-Stop™

Quicker deceleration profile when no operator signal is present. It is fully adjustable.

Quik-Plug™

Quick, fast and smooth deceleration when reverse "plug" signal is received from the Operator. It is fully adjustable.

Built RUGGED!

• Field proven with the high reliability design that you always expect from PE drives!
• So tough one drive will do all CMAA duties A through F!
• Regen transistor circuitry is inside unit – no external parts to purchase, mount and wire!
• Powerful Components can handle up to 300% inrush current capacity!
• Electronic power devices high duty cycle rated.
• Befer system - zero maintenance - can handle the "unexpected!"
• Rugged all steel enclosure for increased reliability in hostile environments.
• Entire Multi-Vector® designed for higher temp reliability up to +60C!
• No other brand drives are designed for high temp as standard!

Built EASIER to use!

• Super-Quck setup - no need to decouple motor from hoist– run the hoist in UP direction–and you set to go.
• PE’s Multi-Vector® does the hard stuff! Can save a day of installation costs!
• Famous "GAN/SET-SET" system for quick field set-up! If you know CX and Smart-Move PE drives, you can install a Multi-Vector®! WOW!
• Familiar adjustment–most of the same parameters as in other PE drives!
• No extra grounding bar or rail required for most applications. Saves you $$$.
• Power Electronics’ famous Upgrade Path Philosophy™ is carried on in the Multi-Vector® series. Software interface and hardware compatibility remains now and into the future!
• Easy to use Test Run diagnostics – read current, torque, encoder, etc. Same easy access to power & control wiring as in all other PE drives!
• No add on boards used! Our 115V (and other voltages) circuitry is built right into every drive!
• Encoder interface built in! Complete with testing and alerts!
• Encoder wiring checkout! Wire it incorrectly and the Multi-Vector® “tells you”!
• The Multi-Vector® is specifically designed for hoist control. It is not a reprogrammed “general purpose” drive.
• Easy setting of multiple speed points, acceleration and deceleration settings, including infinitely variable speeds.
• All the features you want or need!

Built to impress!

• Superior Ultra-Smooth low speed and load floating - no vibration and no "roll-back or drift" on starting or stopping.
• More features with less programming!
• Hoist & Motor models - treats entire system right!
• Easy maintenance (None!)
• Quick & Simple installation - up and running in minutes (not days)!

Built to be Safer!

• Super Quick reliability check prior to every run!
• The Multi-Vector® checks for phase loss, motor continuity, brake loss, and encoder integrity, proper torque, etc.
• No operation without proper control signals.
• Optically isolated inputs and outputs.
• Safety is a number one priority in design.
• Designed with high overload capacity!