

HPV[®]1000

AC ELEVATOR DRIVE



THE INDUSTRY'S **MOST RELIABLE** HARDWARE PLATFORM COMBINES
WITH THE **BEST RIDE QUALITY** AND **EASY, QUICK SET UP**



MAGNETEK
ELEVATOR

Magnetek's proven technical expertise, plus our superior customer service, are why we're the world's leading source for innovative, built-to-last elevator drives.



The NEW HPV1000 has the same easy and familiar set up as Magnetek's Quattro® and HPV® drives.

MAGNETEK'S HPV®1000 OFFERS:

- Elevator-specific application software
- Magnetek's familiar, user-friendly parameter layout
- Controller interface common with other Magnetek elevator drives
- Parameter naming in familiar elevator terminology
- Anti-rollback software with patent pending PPT™ technology results in the smoothest elevator start available **PPT™**

HPV1000 is designed for more than 70,000 hours of maintenance-free operation, making it the ideal choice for new installations or modernisation projects.

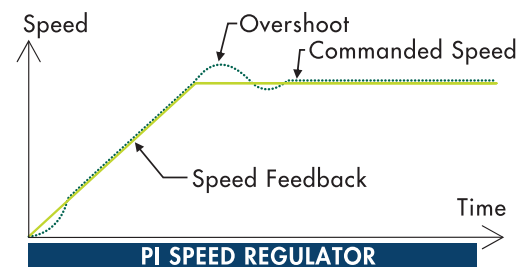
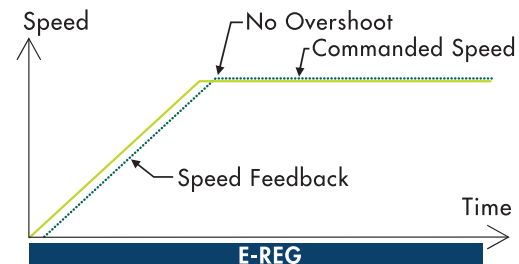
SPEED REGULATOR (E-REG)

Magnetek's unique elevator speed regulator, E-Reg, is specifically designed to handle elevator applications. E-Reg is easy to set up and provides the high performance you have come to expect from Magnetek's elevator drives.

E-REG BENEFITS

- Improved speed change transitions
- Elimination of overshoot seen with traditional PI regulators

Only TWO Parameters to Adjust:
RESPONSE AND INERTIA



ONLINE SIZING TOOL

Try our simple online Sizing Tool to find the right drive for your elevator application. By inputting a few simple parameters, the Sizing Tool generates a suitable model number for your application making drive selection easy. The Sizing Tool also helps calculate other options available from Magnetek, including regenerative solutions and uninterruptible power supplies.

HPV1000 Product Sizing

User Input

Drive Voltage ☐ 200-240V ☐ 380-480V ☐ 500-600V	Select Motor Type ☐ Induction Motor (IM Geared) ☐ Permanent Magnet (PM)	Motor Rated Current Amps										
Select Required Peak Acceleration Current of Max. Required Overload Percentage ☒ Required Peak Current Amps ☐ Max Required Overload NOTE: If peak current is unknown, please select maximum required overload % using the table below.		Feedback Type ☐ IM - Closed Loop ☐ IM - Open Loop ☐ PM - Endat										
<table border="1"> <thead> <tr> <th>Max. Car Speed (ft/min)</th> <th>Overload %</th> </tr> </thead> <tbody> <tr> <td>< 150</td> <td>200%</td> </tr> <tr> <td>150 - 299</td> <td>220%</td> </tr> <tr> <td>300 - 350</td> <td>240%</td> </tr> <tr> <td>> 350</td> <td>250%</td> </tr> </tbody> </table>		Max. Car Speed (ft/min)	Overload %	< 150	200%	150 - 299	220%	300 - 350	240%	> 350	250%	Select Regen Opts. ☐ Non-Regen (DBR/CDBR) ☐ Regen (RegenAC)
Max. Car Speed (ft/min)	Overload %											
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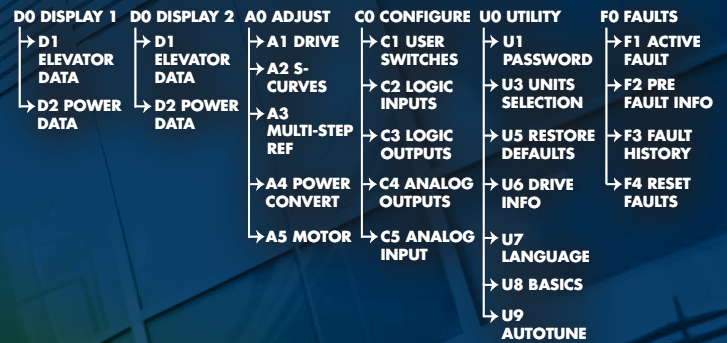
DUAL OPERATOR

The Dual Operator option enables users to configure the HPV1000 using the tried and trusted parameter format used in Magnetek's Quattro® and earlier generation HPV drives. The intuitive parameter structure and ease of navigation reduces set-up time.



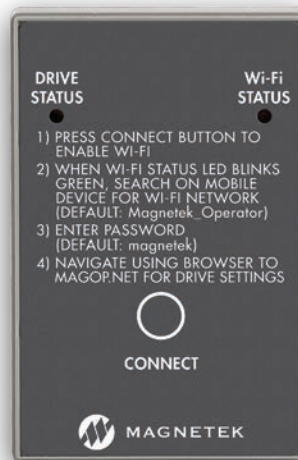
DUAL OPERATOR

MENU/SUB-MENU TREE STRUCTURE



WIRELESS OPERATOR

The Wireless Operator enables programming access to the HPV1000 using the standard web browser found in any smart phone, tablet, or PC. Creating its own "hotspot," the Wireless Operator is particularly useful in applications where drive access is difficult, such as Machine Roomless elevator applications.



WIRELESS OPERATOR



REGENAC™ AND DYNAMIC BRAKING ADD-ONS

Any time an AC motor is overhauled by the drive load, excess energy is generated and fed back to the inverter. This energy must be properly handled to avoid drive faults or possible equipment damage. Choose between our regenerative RegenAC Braking Product and non-regenerative dynamic braking options to best suit your application.



HPV1000 RATINGS

Drive Model Number	Rated kW	Continuous Output Current Rating	Peak (max accelerating current for 5's)	Width (mm)	Height (mm)	Depth (mm)	Weight (Kg)
HPV1000-4009-BA-N02	4	9A	16A	140	260	164	3.5
HPV1000-4015-BA-N02	5.5	15A	26A	140	260	167	3.9
HPV1000-4018-BA-N02	7.5	18A	34A	140	260	167	3.9
HPV1000-4024-BA-N02	11	24A	48A	180	300	167	5.4
HPV1000-4031-BA-N02	15	31A	62A	180	300	187	5.7
HPV1000-4039-BA-N02	18	39A	78A	220	350	197	8.3
HPV1000-4045-BA-N02	22	45A	90A	250	400	258	21
HPV1000-4060-BA-N02	30	60A	120A	275	450	258	25
HPV1000-4075-BA-N02	37	75A	150A	325	510	258	36
HPV1000-4091-BA-N02	45	91A	182A	325	510	258	36
HPV1000-4112-CA-N02	55	112A	202A	325	550	283	41
HPV1000-4150-CA-N02	75	150A	270A	325	550	283	42

NOTE: All continuous current ratings based on an 8KHz carrier frequency except HPV1000-4112/4150 models.

PRODUCT DATA

- CONTROL METHODS

- Induction Motor/PM motor Closed-Loop Control
- Induction Motor Vector and V/F Open-Loop Control

- CERTIFICATIONS: CE, UL, CSA

- AVAILABLE I/O

- 8 Multi-Function Digital Inputs
- 2 Multi-Function +/- Analog Inputs
- 3 Multi-Function Relay Outputs
- 2 Multi-Function Photo-Couple Outputs
- 2 Multi-Function +/- VDC Analog Outputs
- 2 Safe Disable Inputs

- NETWORK COMMUNICATION:

STANDARD: RS-422/485; CANopen-lift (Coming soon); DCP 3/4

- APPROVED ZERO MOTOR CONTACTOR OPERATION

- APPROVED BRAKE SWITCH MONITORING FOR UCM DETECTION

OPTIONS

- EMC FILTER

- ENCODER FEEDBACK: INCREMENTAL (PG-F3), ENDAT (PG-X3)

- BRAKING RESISTORS



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ELEVATOR

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