

YASKAWA



HV600

HVAC

Key Features

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Advanced HVAC features

Simple operation

- Real-time clock for scheduled functions
- Hand-Off-Auto keypad with LCD display and tactile buttons
- Timer controls for starting, stopping, and speed changes

Designed for building automation

- Built-in building automation protocols
- Compliance with global certifications and standards
- Built-in line impedance for harmonic reduction
- On-board EMC/RFI filter (C2 level)
- Conformal coating for circuit board protection

Network multiplexing

The HV600 has a special network multiplexing function that enables four drives to work in a closed-loop lead-lag configuration.

You can program the drive using pump terminology for fast and easy set up. Pump protection features ensure maximum drive and pump life.

Emergency override

This function enables the drive to operate regardless of faults ensuring smoke clearance, preventing smoke infiltration, and providing fresh air in emergency situations to safeguard human safety.

Enhanced pump control

The HV600 includes intelligent pump control capable of single reliable booster pump control. It also has built-in deadhead protection, loss of prime detection, and many other pump system protection features. The HV600 protects your building.

Quick and easy set-up

- Simple steps for efficient commissioning
- DriveWizard® support tool for PCs
- DriveWizard® Mobile app for VFD management on smart mobile devices
- Safe programming without main three-phase power
- Side-by-side mounting for multiple drives to be installed in a minimal mounting space
- All models are plenum rated for building automation applications

Utility start delay timer

- Prevent a peak power surge when more than one drive powers up and accelerates at the same time
- Ensures that the power system is not stressed when utility power is restored and the pump system is restarted automatically

Sequence run timers

- Programmable run timers for Real Time Clock (RTC).
- Automatic start/stop of the drive at certain times without host control system
- Run timers daily, on weekdays, on weekends, or only on certain days of the week.

Low and high pressure feedback detection

The HV600 drive continuously monitors the system feedback to report a warning alarm or fault based on the programmed level.

Second PID controller

The drive's second PI controller option allows for automatic use of a secondary backup PID controller in the event of a primary PID controller failure. A text message on the keypad indicates which feedback PID controller is in use.

* See manual for specific VFD ratings.



Overload capacity

- 110% for 60 s
- 140% for 2 s

Output frequency

- 0 ... 400 Hz

Control methods

- V/f control
- PM open loop vector control
- EZ vector control

Available I/O

- 7× MFDI, 2× MFAI
- 1× fault relay output, 3× MF relay output, 2× MFAO
- 2× safe disable input
- 1× 24 VDC control power input

Embedded network communication



Optional network communication

PROFINET®, PROFIBUS®, EtherNet/IP™, Modbus TCP/IP

IP rating

- IP20 up to 302 A (160 kW)
- IP55 up to 156 A (75 kW)
- Built-in C2 filter

Application presets

- Fan
- Fan with PI Control
- Return Fan with PI Control
- Cooling Tower Fan
- Cooling Tower Fan with PI Control
- Pump
- Pump with PI Control



YASKAWA Europe GmbH

Philipp-Reis-Str. 6
65795 Hattersheim am Main
Germany

+49 6196 569-500
support@yaskawa.eu
www.yaskawa.eu.com

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