

Product Name

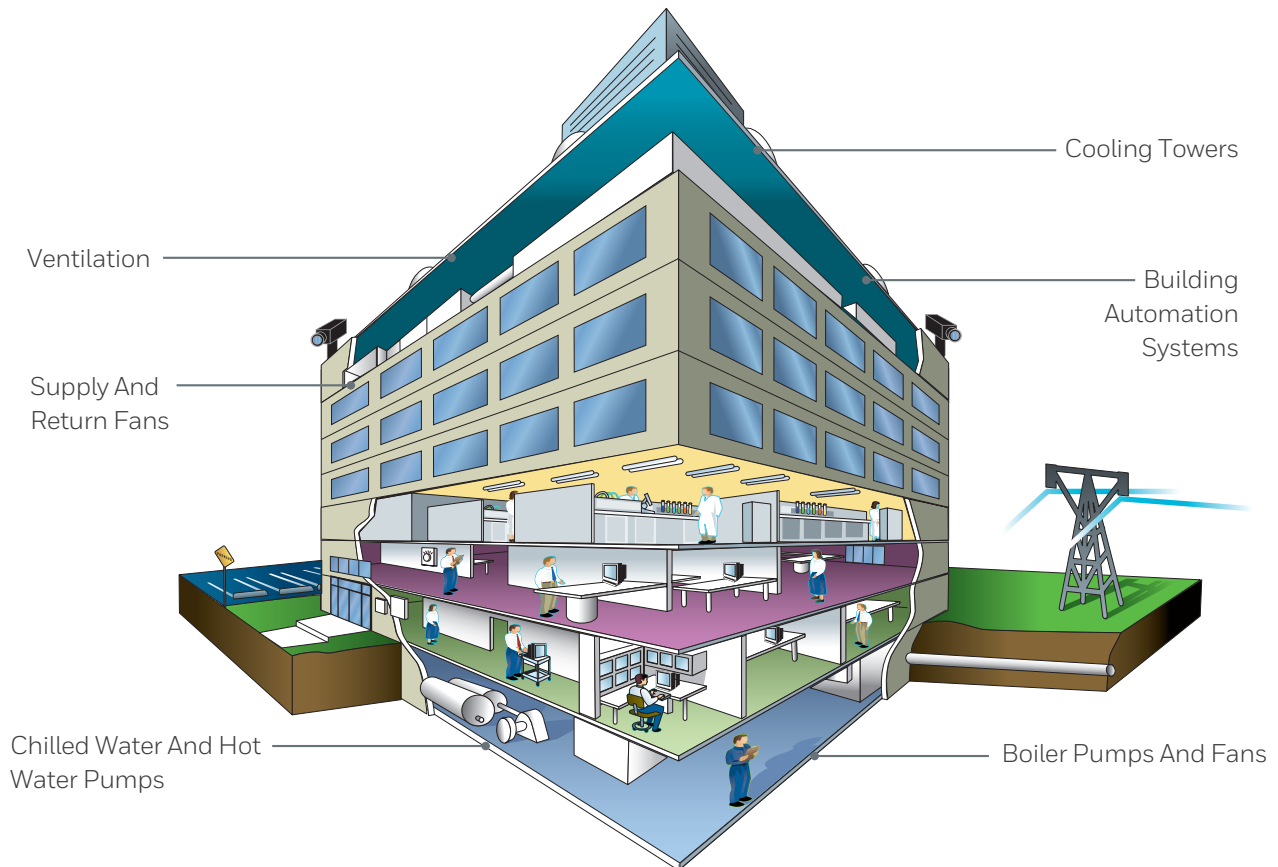
**THE SMART CHOICE  
FOR ENERGY SAVINGS.**

SmartVFD HVAC and BYPASS



# Saving Energy the Smart Way

Buildings consume more than 70 percent of the electricity produced in North America – and roughly half of that is used to circulate air and water. Honeywell SmartVFD HVAC, BYPASS and COMPACT variable frequency drives maximize energy savings by modulating the speed of fans and pumps. VFDs achieve these savings by operating within a building's control system or independently through its internal PID capabilities. Additionally, Honeywell's VFDs are loaded with labor-saving features such as startup wizards, PC programming, and an intuitive graphical interface that allows for faster, more accurate commissioning and reliable maintenance over the life of the drive.



## Backed By Honeywell

Already among the leading names in HVAC variable frequency drives, Honeywell is pleased to deliver the SmartVFD HVAC line – the third generation of Honeywell VFDs. Designed specifically for commercial applications and backed by more than a century of Honeywell's control expertise, you can count on Honeywell's SmartVFD HVAC and BYPASS to deliver long-term service and energy savings for your customers. You simply can't find a commercial building control name with a more proven record than Honeywell.

## The Smart Choice for Efficient Investment

It's a common myth that any VFD can easily be applied in a commercial application, but many VFDs are not the right tool for the job. The Honeywell SmartVFD HVAC and BYPASS are designed specifically for commercial buildings to deliver the energy savings that building owners and facility managers need with 98 percent energy efficiency, minimal labor, and a fast ROI.

## SmartVFD HVAC – Smart Installation, Smart Commissioning and Smart Communication

The Honeywell SmartVFD HVAC meets UL and cUL standards which makes installation and commissioning easy for you and energy savings easy for your customers:

### EASY COMMUNICATION

- Start-Up Wizards – Set the clock and tell the VFD whether you have a pump or a fan, enter nominal motor information, and you are up and running. PID and multi-pumps wizards are also built in.
- PC Software Wizards – Commissioning, programming and troubleshooting are all a snap with the PC Software Wizards.
- Graphic Interface – The easy-to-use keypad and interface deliver menu-driven programming and monitoring for fast, uniform commissioning. It's also easy for the building owner or manager to learn and use, helping to reduce service calls. Every parameter has a built-in help feature to provide assistance while programming.
- Built-In Communications – With BACnet®, N2 and Modbus built in, your customers will enjoy a lower total installed cost and reliable communications with the building management system.
- Built-In PLC – PC based tools eliminate the need for an expensive external controller.

### BUILT-IN PROTECTION

- DC Choke for harmonic protection.
- Standard RFI Filter – Ensures that EMC/RFI requirements are met.
- Bypass Options – Meet specifications and system critical applications with a comprehensive bypass offering.

### SMART SOFTWARE

- Real-Time Clock – Battery included.
- Fire Mode to improve fire safety in the building.
- Motor Switch Ride-Through – Easy, fault-free maintenance.
- Hand-Off-Auto (HOA) control built into the keypad.
- Plenum rated for install flexibility.
- 100 KA Short Circuit Current Rating (SCCR) rated.

## Smart Benefits with Easy Commissioning

Honeywell SmartVFD HVAC doesn't just work in the laboratory — it works in the field. From the variety of network protocols that make integration easy, to the guided Startup and PID wizards, the design and technology of SmartVFDs make them true HVAC drives. Intuitive menus assist with commissioning, programming, troubleshooting and overall operation.



### HIGH-RESOLUTION GRAPHIC DISPLAY

It's not just easy on the eyes, it's also easy to use. The menu driven display shows the minimum, maximum and actual values for all parameters and allows easy uploading and downloading of parameters, and has multiple help functions and the manual built-in. In addition, there is a Local/Remote button on the keypad for built in HOA control.



### DETERMINE ROOT CAUSE OF FAULTS

With the SmartVFD HVAC, troubleshooting involves very little trouble. The built-in, diagnostic screen provides a description for every fault, and the actual values and references are stored at the time of the fault for easy review and problem resolution.



### COMMUNICATION STANDARD

Integrating Honeywell SmartVFD HVAC into a building management system is a breeze. There's no need for extra cards because it offers a wide range of communications protocols right out of the box, including:

- RS485 – BACnet®, Modbus and N2
- Ethernet – BACnet/IP and Modbus/TCP
- Available options – LonWorks® and DeviceNet



### MONITOR SYSTEM PERFORMANCE

The data needed to analyze usage and make adjustments for maximum energy savings is right at your fingertips. Actual electricity consumption in kWh can be monitored using the VFD PC Wizard, and can be conveniently displayed in bar graphs. At any time, the user can see the actual power consumption currently in use — a great tool for managing energy savings.

## Smart Configurations

For system critical applications, you must be able to select a bypass that meets the requirements of the specification. The SmartVFD Bypass is easy to specify, select, install and commission. The SmartVFD Bypass is UL certified and is the perfect complement to the advanced capabilities of the SmartVFD family – a combination that is both simple and smart.

### SmartVFD Bypass Configurations

Our five configurations make it easy for you to select the right bypass to complete your drive package. All bundles are available in NEMA 1, NEMA 12 and ventilated NEMA 3R HOA (HAND OFF AUTO).

#### SMARTVFD DISCONNECT ONLY

- Adds a fused disconnect to the VFD.

#### SMARTVFD 2-CONTACTOR BYPASS

Provides an economical means of bypassing the VFD.

- Freeze/Fire/Smoke Interlock

#### SMARTVFD 3-CONTACTOR BYPASS

Commission, service or replace the VFD without affecting the operation of the motor.

- Fused Disconnect
- Freeze/Fire/Smoke Interlock
- VFD is isolated from power with motor running in BYPASS mode
- TEST position powers the VFD without sending power to the motor

### Sleeker. Smaller. Smarter.

As the latest evolution of the Honeywell VFD line, the SmartVFD BYPASS is sleeker, smaller, lighter and less expensive.

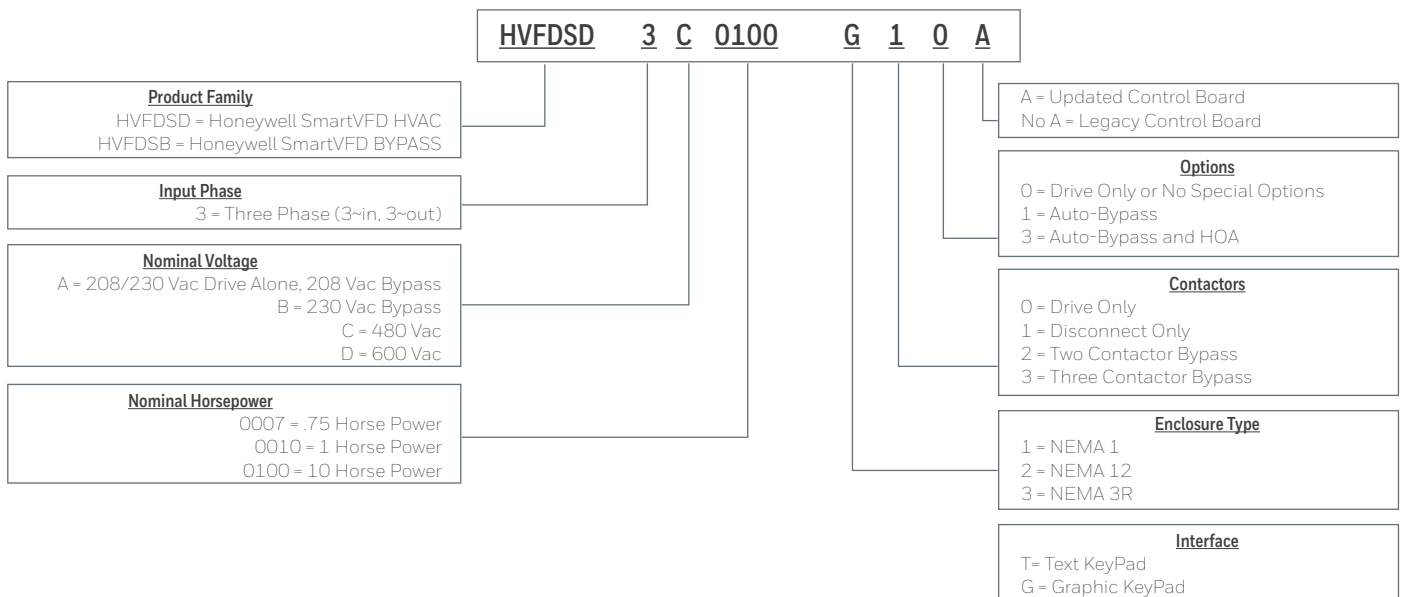
#### SMARTVFD 3-CONTACTOR BYPASS WITH AUTO-BYPASS

The package adds the control capabilities below to the standard three contactor bypass.

- Any VFD fault will automatically send the bypass to BYPASS mode
- A contact closure sends the bypass to BYPASS mode
- Dry contacts indicate when the bypass is in BYPASS mode, alerting the building management system



## Smart Selection



## Pick the Right VFD for the Application

- Drives are typically sized to match the horsepower rating of the motor, which will be accurate 95 percent of the time. But for the greatest accuracy, drives should be sized based upon the Full Load Amps or current draw of the motor. The VFD must have a slightly larger current rating maximum.
- The environment the drive will operate in is critical for selection. Honeywell offers NEMA 1, NEMA 12 (for dusty, dirtier environments) and NEMA 3R enclosures (for falling water or rain situations).
- Because of the complexity of VFDs, a clean, conditioned space with temperatures between 14° F and 104° F provides an environment for ideal operation. Heaters are an option in order to keep your VFD at its recommended temperature.
- Honeywell SmartVFD HVAC has a model range from 1.5-250 HP for 460 Vac, 0.75-125 HP for 208/230 Vac, and 3-200HP for 600 Vac.
- Honeywell SmartVFD offers a standard 3-year warranty from the date of purchase.

**FIND ALL SMARTVFD SELECTION INFORMATION ON THE FOLLOWING PAGES**

### SMARTVFD HVAC DRIVE ALONE

|                 | HP  | AMPS | Frame            | NEMA 1 Drive Alone | NEMA 12 Drive Alone | NEMA 3R Drive Alone |
|-----------------|-----|------|------------------|--------------------|---------------------|---------------------|
| 460 Vac         | 1.5 | 3.4  | 4                | HVFSD3C0015G100A   | HVFSD3C0015G200A    | HVFSD3C0015G300     |
|                 | 2   | 4.8  | 4                | HVFSD3C0020G100A   | HVFSD3C0020G200A    | HVFSD3C0020G300     |
|                 | 3   | 5.6  | 4                | HVFSD3C0030G100A   | HVFSD3C0030G200A    | HVFSD3C0030G300     |
|                 | 4   | 8    | 4                | HVFSD3C0040G100A   | HVFSD3C0040G200A    | HVFSD3C0040G300     |
|                 | 5   | 9.6  | 4                | HVFSD3C0050G100A   | HVFSD3C0050G200A    | HVFSD3C0050G300     |
|                 | 7.5 | 12   | 4                | HVFSD3C0075G100A   | HVFSD3C0075G200A    | HVFSD3C0075G300     |
|                 | 10  | 16   | 5                | HVFSD3C0100G100A   | HVFSD3C0100G200A    | HVFSD3C0100G300     |
|                 | 15  | 23   | 5                | HVFSD3C0150G100A   | HVFSD3C0150G200A    | HVFSD3C0150G300     |
|                 | 20  | 31   | 5                | HVFSD3C0200G100A   | HVFSD3C0200G200A    | HVFSD3C0200G300     |
|                 | 25  | 38   | 6                | HVFSD3C0250G100A   | HVFSD3C0250G200A    | HVFSD3C0250G300     |
|                 | 30  | 46   | 6                | HVFSD3C0300G100A   | HVFSD3C0300G200A    | HVFSD3C0300G300     |
|                 | 40  | 61   | 6                | HVFSD3C0400G100A   | HVFSD3C0400G200A    | HVFSD3C0400G300     |
|                 | 50  | 72   | 7                | HVFSD3C0500G100A   | HVFSD3C0500G200A    | HVFSD3C0500G300     |
|                 | 60  | 87   | 7                | HVFSD3C0600G100A   | HVFSD3C0600G200A    | HVFSD3C0600G300     |
|                 | 75  | 105  | 7                | HVFSD3C0750G100A   | HVFSD3C0750G200A    | HVFSD3C0750G300     |
|                 | 100 | 140  | 8                | HVFSD3C1000G100A   | HVFSD3C1000G200A    | HVFSD3C1000G300     |
|                 | 125 | 170  | 8                | HVFSD3C1250G100A   | HVFSD3C1250G200A    | HVFSD3C1250G300     |
| 150             | 205 | 8    | HVFSD3C1500G100A | HVFSD3C1500G200A   | HVFSD3C1500G300     |                     |
| 200             | 261 | 9    | HVFSD3C2000G100A | HVFSD3C2000G200A   | -                   |                     |
| 250             | 310 | 9    | HVFSD3C2500G100A | HVFSD3C2500G200A   | -                   |                     |
| 208/<br>230 Vac | HP  | AMPS | Frame            | NEMA 1 Drive Alone | NEMA 12 Drive Alone | NEMA 3R Drive Alone |
|                 | .75 | 3.7  | 4                | HVFSD3A0007G100A   | HVFSD3A0007G200A    | HVFSD3A0007G300     |
|                 | 1   | 4.8  | 4                | HVFSD3A0010G100A   | HVFSD3A0010G200A    | HVFSD3A0010G300     |
|                 | 1.5 | 6.6  | 4                | HVFSD3A0015G100A   | HVFSD3A0015G200A    | HVFSD3A0015G300     |
|                 | 2   | 8    | 4                | HVFSD3A0020G100A   | HVFSD3A0020G200A    | HVFSD3A0020G300     |
|                 | 3   | 11   | 4                | HVFSD3A0030G100A   | HVFSD3A0030G200A    | HVFSD3A0030G300     |
|                 | 5   | 18   | 5                | HVFSD3A0050G100A   | HVFSD3A0050G200A    | HVFSD3A0050G300     |
|                 | 7.5 | 24   | 5                | HVFSD3A0075G100A   | HVFSD3A0075G200A    | HVFSD3A0075G300     |
|                 | 10  | 31   | 5                | HVFSD3A0100G100A   | HVFSD3A0100G200A    | HVFSD3A0100G300     |
|                 | 15  | 48   | 6                | HVFSD3A0150G100A   | HVFSD3A0150G200A    | HVFSD3A0150G300     |
|                 | 20  | 62   | 6                | HVFSD3A0200G100A   | HVFSD3A0200G200A    | HVFSD3A0200G300     |
|                 | 25  | 75   | 7                | HVFSD3A0250G100A   | HVFSD3A0250G200A    | HVFSD3A0250G300     |
|                 | 30  | 88   | 7                | HVFSD3A0300G100A   | HVFSD3A0300G200A    | HVFSD3A0300G300     |
|                 | 40  | 105  | 7                | HVFSD3A0400G100A   | HVFSD3A0400G200A    | HVFSD3A0400G300     |
|                 | 50  | 140  | 8                | HVFSD3A0500G100A   | HVFSD3A0500G200A    | HVFSD3A0500G300     |
| 60              | 170 | 8    | HVFSD3A0600G100A | HVFSD3A0600G200A   | HVFSD3A0600G300     |                     |
| 75              | 205 | 8    | HVFSD3A0750G100A | HVFSD3A0750G200A   | HVFSD3A0750G300     |                     |
| 100             | 261 | 9    | HVFSD3A1000G100A | HVFSD3A1000G200A   | -                   |                     |
| 125             | 310 | 9    | HVFSD3A1250G100A | HVFSD3A1250G200A   | -                   |                     |
| 600 Vac         | HP  | AMPS | Frame            | NEMA 1 Drive Alone | NEMA 12 Drive Alone |                     |
|                 | 3   | 3.9  | 5                | HVFSD3D0030G100A   | HVFSD3D0030G200A    |                     |
|                 | 5   | 6.1  | 5                | HVFSD3D0050G100A   | HVFSD3D0050G200A    |                     |
|                 | 7.5 | 9    | 5                | HVFSD3D0075G100A   | HVFSD3D0075G200A    |                     |
|                 | 10  | 11   | 5                | HVFSD3D0100G100A   | HVFSD3D0100G200A    |                     |
|                 | 15  | 18   | 6                | HVFSD3D0150G100A   | HVFSD3D0150G200A    |                     |
|                 | 20  | 22   | 6                | HVFSD3D0200G100A   | HVFSD3D0200G200A    |                     |
|                 | 25  | 27   | 6                | HVFSD3D0250G100A   | HVFSD3D0250G200A    |                     |
|                 | 30  | 34   | 6                | HVFSD3D0300G100A   | HVFSD3D0300G200A    |                     |
|                 | 40  | 41   | 7                | HVFSD3D0400G100A   | HVFSD3D0400G200A    |                     |
|                 | 50  | 52   | 7                | HVFSD3D0500G100A   | HVFSD3D0500G200A    |                     |
|                 | 60  | 62   | 7                | HVFSD3D0600G100A   | HVFSD3D0600G200A    |                     |
|                 | 75  | 80   | 8                | HVFSD3D0750G100A   | HVFSD3D0750G200A    |                     |
|                 | 100 | 100  | 8                | HVFSD3D1000G100A   | HVFSD3D1000G200A    |                     |
|                 | 125 | 125  | 8                | HVFSD3D1250G100A   | HVFSD3D1250G200A    |                     |
| 150             | 144 | 9    | HVFSD3D1500G100A | HVFSD3D1500G200A   |                     |                     |
| 200             | 208 | 9    | HVFSD3D2000G100A | HVFSD3D2000G200A   |                     |                     |

## VFD Pricing/Job Estimating Tools

For additional tools you can use for the selection and pricing of VFDs, see [CPQ.Honeywell.com](http://CPQ.Honeywell.com).

### SMARTVFD HVAC NEMA 1 DISCONNECT AND SMARTVFD BYPASS

|         | HP  | AMPS | Frame            | NEMA 1 Fused Disconnect | NEMA 1 2-Contactor Bypass | NEMA 1 3-Contactor Bypass | NEMA 1 3-Contactor Bypass + Auto-Bypass |
|---------|-----|------|------------------|-------------------------|---------------------------|---------------------------|---|
| 460 Vac | 1.5 | 3.4  | 4                | HVFDSB3C0015G110        | HVFDSB3C0015G120          | HVFDSB3C0015G130          | HVFDSB3C0015G131                        |
|         | 2   | 4.8  | 4                | HVFDSB3C0020G110        | HVFDSB3C0020G120          | HVFDSB3C0020G130          | HVFDSB3C0020G131                        |
|         | 3   | 5.6  | 4                | HVFDSB3C0030G110        | HVFDSB3C0030G120          | HVFDSB3C0030G130          | HVFDSB3C0030G131                        |
|         | 4   | 8    | 4                | HVFDSB3C0040G110        | HVFDSB3C0040G120          | HVFDSB3C0040G130          | HVFDSB3C0040G131                        |
|         | 5   | 9.6  | 4                | HVFDSB3C0050G110        | HVFDSB3C0050G120          | HVFDSB3C0050G130          | HVFDSB3C0050G131                        |
|         | 7.5 | 12   | 4                | HVFDSB3C0075G110        | HVFDSB3C0075G120          | HVFDSB3C0075G130          | HVFDSB3C0075G131                        |
|         | 10  | 16   | 5                | HVFDSB3C0100G110        | HVFDSB3C0100G120          | HVFDSB3C0100G130          | HVFDSB3C0100G131                        |
|         | 15  | 23   | 5                | HVFDSB3C0150G110        | HVFDSB3C0150G120          | HVFDSB3C0150G130          | HVFDSB3C0150G131                        |
|         | 20  | 31   | 5                | HVFDSB3C0200G110        | HVFDSB3C0200G120          | HVFDSB3C0200G130          | HVFDSB3C0200G131                        |
|         | 25  | 38   | 6                | HVFDSB3C0250G110        | HVFDSB3C0250G120          | HVFDSB3C0250G130          | HVFDSB3C0250G131                        |
|         | 30  | 46   | 6                | HVFDSB3C0300G110        | HVFDSB3C0300G120          | HVFDSB3C0300G130          | HVFDSB3C0300G131                        |
|         | 40  | 61   | 6                | HVFDSB3C0400G110        | HVFDSB3C0400G120          | HVFDSB3C0400G130          | HVFDSB3C0400G131                        |
|         | 50  | 72   | 7                | HVFDSB3C0500G110        | HVFDSB3C0500G120          | HVFDSB3C0500G130          | HVFDSB3C0500G131                        |
|         | 60  | 87   | 7                | HVFDSB3C0600G110        | HVFDSB3C0600G120          | HVFDSB3C0600G130          | HVFDSB3C0600G131                        |
|         | 75  | 105  | 7                | HVFDSB3C0750G110        | HVFDSB3C0750G120          | HVFDSB3C0750G130          | HVFDSB3C0750G131                        |
| 100     | 140 | 8    | HVFDSB3C1000G110 | HVFDSB3C1000G120        | HVFDSB3C1000G130          | HVFDSB3C1000G131          |   |
| 125     | 170 | 8    | HVFDSB3C1250G110 | HVFDSB3C1250G120        | HVFDSB3C1250G130          | HVFDSB3C1250G131          |   |
| 150     | 205 | 8    | HVFDSB3C1500G110 | HVFDSB3C1500G120        | HVFDSB3C1500G130          | HVFDSB3C1500G131          |   |
|         | HP  | AMPS | Frame            | NEMA 1 Fused Disconnect | NEMA 1 2-Contactor Bypass | NEMA 1 3-Contactor Bypass | NEMA 1 3-Contactor Bypass + Auto-Bypass |
| 208 Vac | .75 | 3.7  | 4                | HVFDSB3A0007G110        | HVFDSB3A0007G120          | HVFDSB3A0007G130          | HVFDSB3A0007G131                        |
|         | 1   | 4.8  | 4                | HVFDSB3A0010G110        | HVFDSB3A0010G120          | HVFDSB3A0010G130          | HVFDSB3A0010G131                        |
|         | 1.5 | 6.6  | 4                | HVFDSB3A0015G110        | HVFDSB3A0015G120          | HVFDSB3A0015G130          | HVFDSB3A0015G131                        |
|         | 2   | 8    | 4                | HVFDSB3A0020G110        | HVFDSB3A0020G120          | HVFDSB3A0020G130          | HVFDSB3A0020G131                        |
|         | 3   | 11   | 4                | HVFDSB3A0030G110        | HVFDSB3A0030G120          | HVFDSB3A0030G130          | HVFDSB3A0030G131                        |
|         | 5   | 18   | 5                | HVFDSB3A0050G110        | HVFDSB3A0050G120          | HVFDSB3A0050G130          | HVFDSB3A0050G131                        |
|         | 7.5 | 24   | 5                | HVFDSB3A0075G110        | HVFDSB3A0075G120          | HVFDSB3A0075G130          | HVFDSB3A0075G131                        |
|         | 10  | 31   | 5                | HVFDSB3A0100G110        | HVFDSB3A0100G120          | HVFDSB3A0100G130          | HVFDSB3A0100G131                        |
|         | 15  | 48   | 6                | HVFDSB3A0150G110        | HVFDSB3A0150G120          | HVFDSB3A0150G130          | HVFDSB3A0150G131                        |
|         | 20  | 62   | 6                | HVFDSB3A0200G110        | HVFDSB3A0200G120          | HVFDSB3A0200G130          | HVFDSB3A0200G131                        |
|         | 25  | 75   | 7                | HVFDSB3A0250G110        | HVFDSB3A0250G120          | HVFDSB3A0250G130          | HVFDSB3A0250G131                        |
|         | 30  | 88   | 7                | HVFDSB3A0300G110        | HVFDSB3A0300G120          | HVFDSB3A0300G130          | HVFDSB3A0300G131                        |
|         | 40  | 105  | 7                | HVFDSB3A0400G110        | HVFDSB3A0400G120          | HVFDSB3A0400G130          | HVFDSB3A0400G131                        |
|         | 50  | 140  | 8                | HVFDSB3A0500G110        | HVFDSB3A0500G120          | HVFDSB3A0500G130          | HVFDSB3A0500G131                        |
|         | 60  | 170  | 8                | HVFDSB3A0600G110        | HVFDSB3A0600G120          | HVFDSB3A0600G130          | HVFDSB3A0600G131                        |
| 75      | 205 | 8    | HVFDSB3A0750G110 | HVFDSB3A0750G120        | HVFDSB3A0750G130          | HVFDSB3A0750G131          |   |
|         | HP  | AMPS | Frame            | NEMA 1 Fused Disconnect | NEMA 1 2-Contactor Bypass | NEMA 1 3-Contactor Bypass | NEMA 1 3-Contactor Bypass + Auto-Bypass |
| 230 Vac | .75 | 3.7  | 4                | HVFDSB3B0007G110        | HVFDSB3B0007G120          | HVFDSB3B0007G130          | HVFDSB3B0007G131                        |
|         | 1   | 4.8  | 4                | HVFDSB3B0010G110        | HVFDSB3B0010G120          | HVFDSB3B0010G130          | HVFDSB3B0010G131                        |
|         | 1.5 | 6.6  | 4                | HVFDSB3B0015G110        | HVFDSB3B0015G120          | HVFDSB3B0015G130          | HVFDSB3B0015G131                        |
|         | 2   | 8    | 4                | HVFDSB3B0020G110        | HVFDSB3B0020G120          | HVFDSB3B0020G130          | HVFDSB3B0020G131                        |
|         | 3   | 11   | 4                | HVFDSB3B0030G110        | HVFDSB3B0030G120          | HVFDSB3B0030G130          | HVFDSB3B0030G131                        |
|         | 5   | 18   | 5                | HVFDSB3B0050G110        | HVFDSB3B0050G120          | HVFDSB3B0050G130          | HVFDSB3B0050G131                        |
|         | 7.5 | 24   | 5                | HVFDSB3B0075G110        | HVFDSB3B0075G120          | HVFDSB3B0075G130          | HVFDSB3B0075G131                        |
|         | 10  | 31   | 5                | HVFDSB3B0100G110        | HVFDSB3B0100G120          | HVFDSB3B0100G130          | HVFDSB3B0100G131                        |
|         | 15  | 48   | 6                | HVFDSB3B0150G110        | HVFDSB3B0150G120          | HVFDSB3B0150G130          | HVFDSB3B0150G131                        |
|         | 20  | 62   | 6                | HVFDSB3B0200G110        | HVFDSB3B0200G120          | HVFDSB3B0200G130          | HVFDSB3B0200G131                        |
|         | 25  | 75   | 7                | HVFDSB3B0250G110        | HVFDSB3B0250G120          | HVFDSB3B0250G130          | HVFDSB3B0250G131                        |
|         | 30  | 88   | 7                | HVFDSB3B0300G110        | HVFDSB3B0300G120          | HVFDSB3B0300G130          | HVFDSB3B0300G131                        |
|         | 40  | 105  | 7                | HVFDSB3B0400G110        | HVFDSB3B0400G120          | HVFDSB3B0400G130          | HVFDSB3B0400G131                        |
|         | 50  | 140  | 8                | HVFDSB3B0500G110        | HVFDSB3B0500G120          | HVFDSB3B0500G130          | HVFDSB3B0500G131                        |
|         | 60  | 170  | 8                | HVFDSB3B0600G110        | HVFDSB3B0600G120          | HVFDSB3B0600G130          | HVFDSB3B0600G131                        |
| 75      | 205 | 8    | HVFDSB3B0750G110 | HVFDSB3B0750G120        | HVFDSB3B0750G130          | HVFDSB3B0750G131          |   |

# Smart Selection

## SMARTVFD HVAC NEMA 12 DISCONNECT AND SMARTVFD BYPASS

|         | HP  | AMPS | Frame            | NEMA 12 Fused Disconnect | NEMA 12 2-Contactor Bypass | NEMA 12 3-Contactor Bypass | NEMA 12 3-Contactor Bypass + Auto-Bypass |
|---------|-----|------|------------------|--------------------------|----------------------------|----------------------------|--|
| 460 Vac | 1.5 | 3.4  | 4                | HVFDSB3C0015G210         | HVFDSB3C0015G220           | HVFDSB3C0015G230           | HVFDSB3C0015G231                         |
|         | 2   | 4.8  | 4                | HVFDSB3C0020G210         | HVFDSB3C0020G220           | HVFDSB3C0020G230           | HVFDSB3C0020G231                         |
|         | 3   | 5.6  | 4                | HVFDSB3C0030G210         | HVFDSB3C0030G220           | HVFDSB3C0030G230           | HVFDSB3C0030G231                         |
|         | 4   | 8    | 4                | HVFDSB3C0040G210         | HVFDSB3C0040G220           | HVFDSB3C0040G230           | HVFDSB3C0040G231                         |
|         | 5   | 9.6  | 4                | HVFDSB3C0050G210         | HVFDSB3C0050G220           | HVFDSB3C0050G230           | HVFDSB3C0050G231                         |
|         | 7.5 | 12   | 4                | HVFDSB3C0075G210         | HVFDSB3C0075G220           | HVFDSB3C0075G230           | HVFDSB3C0075G231                         |
|         | 10  | 16   | 5                | HVFDSB3C0100G210         | HVFDSB3C0100G220           | HVFDSB3C0100G230           | HVFDSB3C0100G231                         |
|         | 15  | 23   | 5                | HVFDSB3C0150G210         | HVFDSB3C0150G220           | HVFDSB3C0150G230           | HVFDSB3C0150G231                         |
|         | 20  | 31   | 5                | HVFDSB3C0200G210         | HVFDSB3C0200G220           | HVFDSB3C0200G230           | HVFDSB3C0200G231                         |
|         | 25  | 38   | 6                | HVFDSB3C0250G210         | HVFDSB3C0250G220           | HVFDSB3C0250G230           | HVFDSB3C0250G231                         |
|         | 30  | 46   | 6                | HVFDSB3C0300G210         | HVFDSB3C0300G220           | HVFDSB3C0300G230           | HVFDSB3C0300G231                         |
|         | 40  | 61   | 6                | HVFDSB3C0400G210         | HVFDSB3C0400G220           | HVFDSB3C0400G230           | HVFDSB3C0400G231                         |
|         | 50  | 72   | 7                | HVFDSB3C0500G210         | HVFDSB3C0500G220           | HVFDSB3C0500G230           | HVFDSB3C0500G231                         |
|         | 60  | 87   | 7                | HVFDSB3C0600G210         | HVFDSB3C0600G220           | HVFDSB3C0600G230           | HVFDSB3C0600G231                         |
|         | 75  | 105  | 7                | HVFDSB3C0750G210         | HVFDSB3C0750G220           | HVFDSB3C0750G230           | HVFDSB3C0750G231                         |
| 100     | 140 | 8    | HVFDSB3C1000G210 | HVFDSB3C1000G220         | HVFDSB3C1000G230           | HVFDSB3C1000G231           |  |
| 125     | 170 | 8    | HVFDSB3C1250G210 | HVFDSB3C1250G220         | HVFDSB3C1250G230           | HVFDSB3C1250G231           |  |
| 150     | 205 | 8    | HVFDSB3C1500G210 | HVFDSB3C1500G220         | HVFDSB3C1500G230           | HVFDSB3C1500G231           |  |
|         | HP  | AMPS | Frame            | NEMA 12 Fused Disconnect | NEMA 12 2-Contactor Bypass | NEMA 12 3-Contactor Bypass | NEMA 12 3-Contactor Bypass + Auto-Bypass |
| 208 Vac | .75 | 3.7  | 4                | HVFDSB3A0007G210         | HVFDSB3A0007G220           | HVFDSB3A0007G230           | HVFDSB3A0007G231                         |
|         | 1   | 4.8  | 4                | HVFDSB3A0010G210         | HVFDSB3A0010G220           | HVFDSB3A0010G230           | HVFDSB3A0010G231                         |
|         | 1.5 | 6.6  | 4                | HVFDSB3A0015G210         | HVFDSB3A0015G220           | HVFDSB3A0015G230           | HVFDSB3A0015G231                         |
|         | 2   | 8    | 4                | HVFDSB3A0020G210         | HVFDSB3A0020G220           | HVFDSB3A0020G230           | HVFDSB3A0020G231                         |
|         | 3   | 11   | 4                | HVFDSB3A0030G210         | HVFDSB3A0030G220           | HVFDSB3A0030G230           | HVFDSB3A0030G231                         |
|         | 5   | 18   | 5                | HVFDSB3A0050G210         | HVFDSB3A0050G220           | HVFDSB3A0050G230           | HVFDSB3A0050G231                         |
|         | 7.5 | 24   | 5                | HVFDSB3A0075G210         | HVFDSB3A0075G220           | HVFDSB3A0075G230           | HVFDSB3A0075G231                         |
|         | 10  | 31   | 5                | HVFDSB3A0100G210         | HVFDSB3A0100G220           | HVFDSB3A0100G230           | HVFDSB3A0100G231                         |
|         | 15  | 48   | 6                | HVFDSB3A0150G210         | HVFDSB3A0150G220           | HVFDSB3A0150G230           | HVFDSB3A0150G231                         |
|         | 20  | 62   | 6                | HVFDSB3A0200G210         | HVFDSB3A0200G220           | HVFDSB3A0200G230           | HVFDSB3A0200G231                         |
|         | 25  | 75   | 7                | HVFDSB3A0250G210         | HVFDSB3A0250G220           | HVFDSB3A0250G230           | HVFDSB3A0250G231                         |
|         | 30  | 88   | 7                | HVFDSB3A0300G210         | HVFDSB3A0300G220           | HVFDSB3A0300G230           | HVFDSB3A0300G231                         |
|         | 40  | 105  | 7                | HVFDSB3A0400G210         | HVFDSB3A0400G220           | HVFDSB3A0400G230           | HVFDSB3A0400G231                         |
|         | 50  | 140  | 8                | HVFDSB3A0500G210         | HVFDSB3A0500G220           | HVFDSB3A0500G230           | HVFDSB3A0500G231                         |
|         | 60  | 170  | 8                | HVFDSB3A0600G210         | HVFDSB3A0600G220           | HVFDSB3A0600G230           | HVFDSB3A0600G231                         |
| 75      | 205 | 8    | HVFDSB3A0750G210 | HVFDSB3A0750G220         | HVFDSB3A0750G230           | HVFDSB3A0750G231           |  |
|         | HP  | AMPS | Frame            | NEMA 12 Fused Disconnect | NEMA 12 2-Contactor Bypass | NEMA 12 3-Contactor Bypass | NEMA 12 3-Contactor Bypass + Auto-Bypass |
| 230 Vac | .75 | 3.7  | 4                | HVFDSB3B0007G210         | HVFDSB3B0007G220           | HVFDSB3B0007G230           | HVFDSB3B0007G231                         |
|         | 1   | 4.8  | 4                | HVFDSB3B0010G210         | HVFDSB3B0010G220           | HVFDSB3B0010G230           | HVFDSB3B0010G231                         |
|         | 1.5 | 6.6  | 4                | HVFDSB3B0015G210         | HVFDSB3B0015G220           | HVFDSB3B0015G230           | HVFDSB3B0015G231                         |
|         | 2   | 8    | 4                | HVFDSB3B0020G210         | HVFDSB3B0020G220           | HVFDSB3B0020G230           | HVFDSB3B0020G231                         |
|         | 3   | 11   | 4                | HVFDSB3B0030G210         | HVFDSB3B0030G220           | HVFDSB3B0030G230           | HVFDSB3B0030G231                         |
|         | 5   | 18   | 5                | HVFDSB3B0050G210         | HVFDSB3B0050G220           | HVFDSB3B0050G230           | HVFDSB3B0050G231                         |
|         | 7.5 | 24   | 5                | HVFDSB3B0075G210         | HVFDSB3B0075G220           | HVFDSB3B0075G230           | HVFDSB3B0075G231                         |
|         | 10  | 31   | 5                | HVFDSB3B0100G210         | HVFDSB3B0100G220           | HVFDSB3B0100G230           | HVFDSB3B0100G231                         |
|         | 15  | 48   | 6                | HVFDSB3B0150G210         | HVFDSB3B0150G220           | HVFDSB3B0150G230           | HVFDSB3B0150G231                         |
|         | 20  | 62   | 6                | HVFDSB3B0200G210         | HVFDSB3B0200G220           | HVFDSB3B0200G230           | HVFDSB3B0200G231                         |
|         | 25  | 75   | 7                | HVFDSB3B0250G210         | HVFDSB3B0250G220           | HVFDSB3B0250G230           | HVFDSB3B0250G231                         |
|         | 30  | 88   | 7                | HVFDSB3B0300G210         | HVFDSB3B0300G220           | HVFDSB3B0300G230           | HVFDSB3B0300G231                         |
|         | 40  | 105  | 7                | HVFDSB3B0400G210         | HVFDSB3B0400G220           | HVFDSB3B0400G230           | HVFDSB3B0400G231                         |
|         | 50  | 140  | 8                | HVFDSB3B0500G210         | HVFDSB3B0500G220           | HVFDSB3B0500G230           | HVFDSB3B0500G231                         |
|         | 60  | 170  | 8                | HVFDSB3B0600G210         | HVFDSB3B0600G220           | HVFDSB3B0600G230           | HVFDSB3B0600G231                         |
| 75      | 205 | 8    | HVFDSB3B0750G210 | HVFDSB3B0750G220         | HVFDSB3B0750G230           | HVFDSB3B0750G231           |  |



## VFD Pricing/Job Estimating Tools

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### SMARTVFD HVAC NEMA 3R DISCONNECT AND SMARTVFD BYPASS

|         | HP  | AMPS | Frame            | NEMA 3R Fused Disconnect | NEMA 3R 2-Contactor Bypass | NEMA 3R 3-Contactor Bypass | NEMA 3R 3-Contactor Bypass + Auto-Bypass |
|---------|-----|------|------------------|--------------------------|----------------------------|----------------------------|--|
| 460 Vac | 1.5 | 3.4  | 4                | HVFDSB3C0015G310         | HVFDSB3C0015G320           | HVFDSB3C0015G330           | HVFDSB3C0015G331                         |
|         | 2   | 4.8  | 4                | HVFDSB3C0020G310         | HVFDSB3C0020G320           | HVFDSB3C0020G330           | HVFDSB3C0020G331                         |
|         | 3   | 5.6  | 4                | HVFDSB3C0030G310         | HVFDSB3C0030G320           | HVFDSB3C0030G330           | HVFDSB3C0030G331                         |
|         | 4   | 8    | 4                | HVFDSB3C0040G310         | HVFDSB3C0040G320           | HVFDSB3C0040G330           | HVFDSB3C0040G331                         |
|         | 5   | 9.6  | 4                | HVFDSB3C0050G310         | HVFDSB3C0050G320           | HVFDSB3C0050G330           | HVFDSB3C0050G331                         |
|         | 7.5 | 12   | 4                | HVFDSB3C0075G310         | HVFDSB3C0075G320           | HVFDSB3C0075G330           | HVFDSB3C0075G331                         |
|         | 10  | 16   | 5                | HVFDSB3C0100G310         | HVFDSB3C0100G320           | HVFDSB3C0100G330           | HVFDSB3C0100G331                         |
|         | 15  | 23   | 5                | HVFDSB3C0150G310         | HVFDSB3C0150G320           | HVFDSB3C0150G330           | HVFDSB3C0150G331                         |
|         | 20  | 31   | 5                | HVFDSB3C0200G310         | HVFDSB3C0200G320           | HVFDSB3C0200G330           | HVFDSB3C0200G331                         |
|         | 25  | 38   | 6                | HVFDSB3C0250G310         | HVFDSB3C0250G320           | HVFDSB3C0250G330           | HVFDSB3C0250G331                         |
|         | 30  | 46   | 6                | HVFDSB3C0300G310         | HVFDSB3C0300G320           | HVFDSB3C0300G330           | HVFDSB3C0300G331                         |
|         | 40  | 61   | 6                | HVFDSB3C0400G310         | HVFDSB3C0400G320           | HVFDSB3C0400G330           | HVFDSB3C0400G331                         |
|         | 50  | 72   | 7                | HVFDSB3C0500G310         | HVFDSB3C0500G320           | HVFDSB3C0500G330           | HVFDSB3C0500G331                         |
|         | 60  | 87   | 7                | HVFDSB3C0600G310         | HVFDSB3C0600G320           | HVFDSB3C0600G330           | HVFDSB3C0600G331                         |
|         | 75  | 105  | 7                | HVFDSB3C0750G310         | HVFDSB3C0750G320           | HVFDSB3C0750G330           | HVFDSB3C0750G331                         |
| 100     | 140 | 8    | HVFDSB3C1000G310 | HVFDSB3C1000G320         | HVFDSB3C1000G330           | HVFDSB3C1000G331           |  |
| 125     | 170 | 8    | HVFDSB3C1250G310 | HVFDSB3C1250G320         | HVFDSB3C1250G330           | HVFDSB3C1250G331           |  |
| 150     | 205 | 8    | HVFDSB3C1500G310 | HVFDSB3C1500G320         | HVFDSB3C1500G330           | HVFDSB3C1500G331           |  |
|         | HP  | AMPS | Frame            | NEMA 3R Fused Disconnect | NEMA 3R 2-Contactor Bypass | NEMA 3R 3-Contactor Bypass | NEMA 3R 3-Contactor Bypass + Auto-Bypass |
| 208 Vac | .75 | 3.7  | 4                | HVFDSB3A0007G310         | HVFDSB3A0007G320           | HVFDSB3A0007G330           | HVFDSB3A0007G331                         |
|         | 1   | 4.8  | 4                | HVFDSB3A0010G310         | HVFDSB3A0010G320           | HVFDSB3A0010G330           | HVFDSB3A0010G331                         |
|         | 1.5 | 6.6  | 4                | HVFDSB3A0015G310         | HVFDSB3A0015G320           | HVFDSB3A0015G330           | HVFDSB3A0015G331                         |
|         | 2   | 8    | 4                | HVFDSB3A0020G310         | HVFDSB3A0020G320           | HVFDSB3A0020G330           | HVFDSB3A0020G331                         |
|         | 3   | 11   | 4                | HVFDSB3A0030G310         | HVFDSB3A0030G320           | HVFDSB3A0030G330           | HVFDSB3A0030G331                         |
|         | 5   | 18   | 5                | HVFDSB3A0050G310         | HVFDSB3A0050G320           | HVFDSB3A0050G330           | HVFDSB3A0050G331                         |
|         | 7.5 | 24   | 5                | HVFDSB3A0075G310         | HVFDSB3A0075G320           | HVFDSB3A0075G330           | HVFDSB3A0075G331                         |
|         | 10  | 31   | 5                | HVFDSB3A0100G310         | HVFDSB3A0100G320           | HVFDSB3A0100G330           | HVFDSB3A0100G331                         |
|         | 15  | 48   | 6                | HVFDSB3A0150G310         | HVFDSB3A0150G320           | HVFDSB3A0150G330           | HVFDSB3A0150G331                         |
|         | 20  | 62   | 6                | HVFDSB3A0200G310         | HVFDSB3A0200G320           | HVFDSB3A0200G330           | HVFDSB3A0200G331                         |
|         | 25  | 75   | 7                | HVFDSB3A0250G310         | HVFDSB3A0250G320           | HVFDSB3A0250G330           | HVFDSB3A0250G331                         |
|         | 30  | 88   | 7                | HVFDSB3A0300G310         | HVFDSB3A0300G320           | HVFDSB3A0300G330           | HVFDSB3A0300G331                         |
|         | 40  | 105  | 7                | HVFDSB3A0400G310         | HVFDSB3A0400G320           | HVFDSB3A0400G330           | HVFDSB3A0400G331                         |
|         | 50  | 140  | 8                | HVFDSB3A0500G310         | HVFDSB3A0500G320           | HVFDSB3A0500G330           | HVFDSB3A0500G331                         |
|         | 60  | 170  | 8                | HVFDSB3A0600G310         | HVFDSB3A0600G320           | HVFDSB3A0600G330           | HVFDSB3A0600G331                         |
| 75      | 205 | 8    | HVFDSB3A0750G310 | HVFDSB3A0750G320         | HVFDSB3A0750G330           | HVFDSB3A0750G331           |  |
|         | HP  | AMPS | Frame            | NEMA 3R Fused Disconnect | NEMA 3R 2-Contactor Bypass | NEMA 3R 3-Contactor Bypass | NEMA 3R 3-Contactor Bypass + Auto-Bypass |
| 230 Vac | .75 | 3.7  | 4                | HVFDSB3B0007G310         | HVFDSB3B0007G320           | HVFDSB3B0007G330           | HVFDSB3B0007G331                         |
|         | 1   | 4.8  | 4                | HVFDSB3B0010G310         | HVFDSB3B0010G320           | HVFDSB3B0010G330           | HVFDSB3B0010G331                         |
|         | 1.5 | 6.6  | 4                | HVFDSB3B0015G310         | HVFDSB3B0015G320           | HVFDSB3B0015G330           | HVFDSB3B0015G331                         |
|         | 2   | 8    | 4                | HVFDSB3B0020G310         | HVFDSB3B0020G320           | HVFDSB3B0020G330           | HVFDSB3B0020G331                         |
|         | 3   | 11   | 4                | HVFDSB3B0030G310         | HVFDSB3B0030G320           | HVFDSB3B0030G330           | HVFDSB3B0030G331                         |
|         | 5   | 18   | 5                | HVFDSB3B0050G310         | HVFDSB3B0050G320           | HVFDSB3B0050G330           | HVFDSB3B0050G331                         |
|         | 7.5 | 24   | 5                | HVFDSB3B0075G310         | HVFDSB3B0075G320           | HVFDSB3B0075G330           | HVFDSB3B0075G331                         |
|         | 10  | 31   | 5                | HVFDSB3B0100G310         | HVFDSB3B0100G320           | HVFDSB3B0100G330           | HVFDSB3B0100G331                         |
|         | 15  | 48   | 6                | HVFDSB3B0150G310         | HVFDSB3B0150G320           | HVFDSB3B0150G330           | HVFDSB3B0150G331                         |
|         | 20  | 62   | 6                | HVFDSB3B0200G310         | HVFDSB3B0200G320           | HVFDSB3B0200G330           | HVFDSB3B0200G331                         |
|         | 25  | 75   | 7                | HVFDSB3B0250G310         | HVFDSB3B0250G320           | HVFDSB3B0250G330           | HVFDSB3B0250G331                         |
|         | 30  | 88   | 7                | HVFDSB3B0300G310         | HVFDSB3B0300G320           | HVFDSB3B0300G330           | HVFDSB3B0300G331                         |
|         | 40  | 105  | 7                | HVFDSB3B0400G310         | HVFDSB3B0400G320           | HVFDSB3B0400G330           | HVFDSB3B0400G331                         |
|         | 50  | 140  | 8                | HVFDSB3B0500G310         | HVFDSB3B0500G320           | HVFDSB3B0500G330           | HVFDSB3B0500G331                         |
|         | 60  | 170  | 8                | HVFDSB3B0600G310         | HVFDSB3B0600G320           | HVFDSB3B0600G330           | HVFDSB3B0600G331                         |
| 75      | 205 | 8    | HVFDSB3B0750G310 | HVFDSB3B0750G320         | HVFDSB3B0750G330           | HVFDSB3B0750G331           |  |

# Smart Selection VFD Pricing/Job Estimating Tools

For additional tools you can use for the selection and pricing of VFDs, see [CPQ.Honeywell.com](http://CPQ.Honeywell.com).

**NEMA 1**

| Frame Size | HP And Voltage          |                            | Configuration                | Dimensions (in) |      |                | Weight (lb)      |
|------------|-------------------------|----------------------------|------------------------------|-----------------|------|----------------|------------------|
|            | 208/230 VAC             | 460 VAC                    |                              | W               | H    | D              |                  |
| 4          | 0.75-3 HP               | 1.5-7.5 HP                 | Drive alone                  | 5               | 12.9 | 7.5            | 13.2             |
|            |                         |                            | Disconnect                   | 8.9             | 31.9 | 10.3           | 33               |
|            |                         |                            | 2-Contactor                  | 8.9             | 31.9 | 9.6            | 38               |
|            |                         |                            | 3-Contactor                  | 8.9             | 38.9 | 10.3           | 44               |
|            |                         |                            | 3-Contactor with Auto-Bypass | 8.9             | 38.9 | 10.3           | 46               |
| 5          | 5 HP<br>7.5 HP<br>10 HP | 10 HP<br>15 HP<br>20 HP    | Drive alone                  | 5.7             | 16.5 | 8.4            | 22               |
|            |                         |                            | Disconnect                   | 8.9             | 34.7 | 10.3           | 43               |
|            |                         |                            | 2-Contactor                  | 8.9             | 34.7 | 9.6            | 48/50/50         |
|            |                         |                            | 3-Contactor                  | 8.9             | 41.7 | 10.3/10.3/10.8 | 55.5/57/59.5     |
|            |                         |                            | 3-Contactor with Auto-Bypass | 8.9             | 41.7 | 10.3/10.3/10.8 | 56/57.5/60       |
| 6          | 15 HP<br>30 HP<br>40 HP | 25 HP<br>30 HP<br>40 HP    | Drive alone                  | 7.7             | 21.9 | 9              | 44.1             |
|            |                         |                            | Disconnect                   | 12.4            | 45.1 | 11.3           | 50               |
|            |                         |                            | 2-Contactor                  | 12.4            | 45.1 | 10.1           | 55/59            |
|            |                         |                            | 3-Contactor                  | 12.4            | 55.2 | 11.3           | 94.5/98.5/105.5  |
|            |                         |                            | 3-Contactor with Auto-Bypass | 12.4            | 55.2 | 11.3           | 96.5/100.5/107.5 |
| 7          | 25 HP<br>30 HP<br>40 HP | 50 HP<br>60 HP<br>75 HP    | Drive alone                  | 9.3             | 25.4 | 10.2           | 82.7             |
|            |                         |                            | Disconnect                   | 20.8            | 51.5 | 13.2           | 100              |
|            |                         |                            | 2-Contactor                  | 20.8            | 51.5 | 12.2           | 169/179/189      |
|            |                         |                            | 3-Contactor                  | 20.8            | 59   | 13.2           | 175/184/195      |
|            |                         |                            | 3-Contactor with Auto-Bypass | 20.8            | 59   | 13.2           | 177/186/197      |
| 8          | 50 HP<br>60 HP<br>75 HP | 100 HP<br>125 HP<br>150 HP | Drive alone                  | 11.4            | 38   | 13.5           | 154.3            |
|            |                         |                            | Disconnect                   | 25              | 60   | 16.2           | 200              |
|            |                         |                            | 2-Contactor                  | 25              | 60   | 15.2           | 250/265/280      |
|            |                         |                            | 3-Contactor                  | 25              | 70   | 16.2           | 285/295/331      |
|            |                         |                            | 3-Contactor with Auto-Bypass | 25              | 70   | 16.2           | 287/297/333      |
| 9          | 100-125 HP              | 200-250 HP                 | Drive alone                  | 18.9            | 45.3 | 14.4           | 238.1            |

**NEMA 12**

| Frame Size | HP And Voltage |                            | Configuration                | 208/230 VAC                   |                |      |             | 460 VAC                       |                |      |             |
|------------|----------------|----------------------------|------------------------------|-------------------------------|----------------|------|-------------|-------------------------------|----------------|------|-------------|
|            | 208/230 VAC    | 460 VAC                    |                              | Dimensions (in) & Weight (lb) |                |      |             | Dimensions (in) & Weight (lb) |                |      |             |
|            |                |                            |                              | W                             | H              | D    | lb          | W                             | H              | D    | lb          |
| 4          | 0.75-3 HP      | 1.5-7.5 HP                 | Drive alone                  | 5                             | 12.9           | 7.5  | 13.2        | 5                             | 12.9           | 7.5  | 13.2        |
|            |                |                            | Disconnect                   | 12                            | 37.5           | 11   | 40          | 12                            | 37.5           | 11   | 40          |
|            |                |                            | 2-Contactor                  | 16                            | 37.5           | 11   | 55          | 16                            | 37.5           | 11   | 53          |
|            |                |                            | 3-Contactor                  | 16                            | 37.5           | 11   | 55          | 16                            | 37.5           | 11   | 53          |
|            |                |                            | 3-Contactor with Auto-Bypass | 16                            | 37.5           | 11   | 55          | 16                            | 37.5           | 11   | 53          |
| 5          | 5-10 HP        | 10 HP<br>15 HP<br>20 HP    | Drive alone                  | 5.7                           | 16.5           | 8.4  | 22          | 5.7                           | 16.5           | 8.4  | 22          |
|            |                |                            | Disconnect                   | 12                            | 41             | 11   | 72          | 12                            | 41             | 11   | 72          |
|            |                |                            | 2-Contactor                  | 16                            | 41/41/45       | 11   | 70/70/84    | 16                            | 41/41/45       | 11   | 64/64/76    |
|            |                |                            | 3-Contactor                  | 16                            | 41/41/45       | 11   | 70/70/84    | 16                            | 41/41/45       | 11   | 64/64/76    |
|            |                |                            | 3-Contactor with Auto-Bypass | 16                            | 41/41/45       | 11   | 70/70/84    | 16                            | 41/41/45       | 11   | 64/64/76    |
| 6          | 15-20 HP       | 25 HP<br>30 HP<br>40 HP    | Drive alone                  | 7.7                           | 21.9           | 9    | 44.1        | 7.7                           | 21.9           | 9    | 44.1        |
|            |                |                            | Disconnect                   | 12                            | 46.5           | 13   | 120         | 12/12/16                      | 46.5           | 13   | 120/120/136 |
|            |                |                            | 2-Contactor                  | 16/20                         | 50.5/54.5      | 13   | 125/140     | 16/16/20                      | 50.5/50.5/54.5 | 13   | 120/120/136 |
|            |                |                            | 3-Contactor                  | 16/20                         | 50.5/54.5      | 13   | 125/140     | 16/16/20                      | 50.5/50.5/54.5 | 13   | 120/120/136 |
|            |                |                            | 3-Contactor with Auto-Bypass | 16/20                         | 50.5/54.5      | 13   | 125/140     | 16/16/20                      | 50.5/50.5/54.5 | 13   | 120/120/136 |
| 7          | 25-40 HP       | 50 HP<br>60 HP<br>75 HP    | Drive alone                  | 9.3                           | 25.4           | 10.2 | 82.7        | 9.3                           | 25.4           | 10.2 | 82.7        |
|            |                |                            | Disconnect                   | 16                            | 50.5           | 13.5 | 145/160/175 | 16                            | 50.5           | 13.5 | 145/160/175 |
|            |                |                            | 2-Contactor                  | 20/24/30                      | 58.5/65.5/70.5 | 13.5 | 160/175/200 | 20/24/30                      | 58.5/65.5/70.5 | 13.5 | 150/165/193 |
|            |                |                            | 3-Contactor                  | 20/24/30                      | 58.5/65.5/70.5 | 13.5 | 160/175/200 | 20/24/30                      | 58.5/65.5/70.5 | 13.5 | 150/165/193 |
|            |                |                            | 3-Contactor with Auto-Bypass | 20/24/30                      | 58.5/65.5/70.5 | 13.5 | 160/175/200 | 20/24/30                      | 58.5/65.5/70.5 | 13.5 | 150/165/193 |
| 8          | 50-75 HP       | 100 HP<br>125 HP<br>150 HP | Drive alone                  | 11.4                          | 38             | 13.5 | 154.3       | 11.42                         | 38.03          | 13.5 | 154.3       |
|            |                |                            | Disconnect                   | Contact Customer Care         |                |      |             | Contact Customer Care         |                |      |             |
|            |                |                            | 2-Contactor                  | Contact Customer Care         |                |      |             | Contact Customer Care         |                |      |             |
|            |                |                            | 3-Contactor                  | Contact Customer Care         |                |      |             | Contact Customer Care         |                |      |             |
|            |                |                            | 3-Contactor with Auto-Bypass | Contact Customer Care         |                |      |             | Contact Customer Care         |                |      |             |
| 9          | 100-125 HP     | 180-220 HP                 | Drive alone                  | 18.9                          | 45.3           | 14.4 | 238.1       | 14.37                         | 45.27          | 18.9 | 238.1       |

**NEMA 3R**

| Frame Size | HP And Voltage |            | Configuration                | Dimensions (in) |    |      | Weight (lb) |
|------------|----------------|------------|------------------------------|-----------------|----|------|-------------|
|            | 208/230 VAC    | 460 VAC    |                              | W               | H  | D    |             |
| 4          | 0.75-3 HP      | 1.5-7.5 HP | Drive alone                  | 20.5            | 20 | 10.5 | 39          |
|            |                |            | Disconnect                   | 20.5            | 20 | 12   | 43          |
|            |                |            | 2-Contactor                  | 24.5            | 24 | 10.5 | 49          |
|            |                |            | 3-Contactor                  | 24.5            | 24 | 12   | 54          |
|            |                |            | 3-Contactor with Auto-Bypass | 24.5            | 24 | 12   | 54          |
| 5          | 5-10 HP        | 10-20 HP   | Drive alone                  | 20.5            | 24 | 10.5 | 58          |
|            |                |            | Disconnect                   | 20.5            | 24 | 12   | 61          |
|            |                |            | 2-Contactor                  | 24.5            | 24 | 10.5 | 72          |
|            |                |            | 3-Contactor                  | 28.5            | 30 | 12   | 78          |
|            |                |            | 3-Contactor with Auto-Bypass | 28.5            | 30 | 12   | 78          |
| 6          | 15-20 HP       | 25-40 HP   | Drive alone                  | 28.5            | 36 | 10.5 | 80          |
|            |                |            | Disconnect                   | 28.5            | 36 | 12   | 88          |
|            |                |            | 2-Contactor                  | 28.5            | 36 | 10.5 | 118         |
|            |                |            | 3-Contactor                  | 34.5            | 36 | 12   | 124         |
|            |                |            | 3-Contactor with Auto-Bypass | 34.5            | 36 | 12   | 124         |
| 7          | 25-40 HP       | 50-75 HP   | Drive alone                  | 28.5            | 48 | 12.5 | 130         |
|            |                |            | Disconnect                   | 28.5            | 48 | 14   | 149         |
|            |                |            | 2-Contactor                  | 28.5            | 48 | 12.5 | 185         |
|            |                |            | 3-Contactor                  | 40.5            | 48 | 14   | 193         |
|            |                |            | 3-Contactor with Auto-Bypass | 40.5            | 48 | 14   | 193         |
| 8          | 50-75 HP       | 100-150 HP | Drive alone                  | 40.5            | 60 | 12.5 | 299         |
|            |                |            | Disconnect                   | 40.5            | 60 | 14   | 340         |
|            |                |            | 2-Contactor                  | 40.5            | 60 | 12.5 | 430         |
|            |                |            | 3-Contactor                  | 40.5            | 60 | 14   | 440         |
|            |                |            | 3-Contactor with Auto-Bypass | 40.5            | 60 | 14   | 440         |

Honeywell SmartVFD HVAC and SmartVFD BYPASS are smaller, sleeker and require a smaller footprint than other manufacturers. They are specifically designed for your HVAC application.

## Smart Accessories

### SMARTVFD ACCESSORIES

| Accessory          | Description  | Drive Used with |
|--------------------|--|-----------------|
| 32006630-001/U     | LON Communication Card (NXOPTC4)   | SMART           |
| HVFDSDOPT1AI2AO/U  | 1 x AI, 2 x AO (isolated, D- and E-slot compatible)                      | HVAC2 and SMART |
| HVFDSDOPT1RO5DI/U  | 1 x RO, 5 x DI (42-240 VAC, D- and E-slot compatible)                    | HVAC2 and SMART |
| HVFDSDOPT2RO1T/U   | 2 x RO + Thermistor (D- and E-slot compatible)                           | HVAC2 and SMART |
| HVFDSDOPT3RO/U     | 3 x RO (D- and E-slot compatible)  | HVAC2 and SMART |
| HVFDSDOPT6DI/U     | 6 x DI / DO Programmable (D- and E-slot compatible)                      | HVAC2 and SMART |
| HVFDOPTEMP         | Temperature Measurement Board  | HVAC2 and SMART |
| HVFDSDBATTERY/U    | Battery Package, 5 pcs, for Real Time Clock (only for old control board) | SMART           |
| HVFDSDTRAINER/U    | SmartVFD HVAC Training Demonstration Kit                                 | SMART           |
| HVFDSDGRAPHICKP/U  | SmartVFD HVAC Replacement Graphical Keypad                               | SMART           |
| HVFDSDMOUNTKIT/U   | SmartVFD HVAC Panel Mount Kit for NEMA 12 Install 3 Meter Cable          | SMART           |
| HVFDSDNEMA12FR4/U  | SmartVFD HVAC NEMA 12 Kit Frame 4  | SMART           |
| HVFDSDNEMA12FR5/U  | SmartVFD HVAC NEMA 12 Kit Frame 5  | SMART           |
| HVFDSDNEMA12FR6/U  | SmartVFD HVAC NEMA 12 Kit Frame 6  | SMART           |
| HVFDSDFLANGEFR4/U  | SmartVFD HVAC Flange Mounting Kit for Frame 4                            | SMART           |
| HVFDSDFLANGEFR5/U  | SmartVFD HVAC Flange Mounting Kit for Frame 5                            | SMART           |
| HVFDSDFLANGEFR6/U  | SmartVFD HVAC Flange Mounting Kit for Frame 6                            | SMART           |
| HVFDSDFLANGEFR7/U  | SmartVFD HVAC Flange Mounting Kit for Frame 7                            | SMART           |
| HVFDSDFANFR4/U     | SmartVFD HVAC Frame 4 Replacement Fan                                    | SMART           |
| HVFDSDFANFR5/U     | SmartVFD HVAC Frame 5 Replacement Fan                                    | SMART           |
| HVFDSDFANFR6/U     | SmartVFD HVAC Frame 6 Replacement Fan                                    | SMART           |
| HVFDSDFANFR7/U     | SmartVFD HVAC Frame 7 Replacement Fan                                    | SMART           |
| HVFDSDINSTALLFR4/U | SmartVFD HVAC Replacement Installation Accessories Frame 4               | SMART           |
| HVFDSDINSTALLFR5/U | SmartVFD HVAC Replacement Installation Accessories Frame 5               | SMART           |
| HVFDSDINSTALLFR6/U | SmartVFD HVAC Replacement Installation Accessories Frame 6               | SMART           |
| HVFDCCABLE/U       | SmartVFD Compact Commissioning Cable and USB Adaptor                     | HVAC2 and SMART |
| HVFDSEXTENSION     | Control Board Wire Extension   | SMART           |

## See the Big Picture

With an optional Micro Communication Adapter (MCA), you can turn your computer into a window to easily setup, operate, monitor and diagnose your SmartVFD drives. Just download the free PC Tool software from [customer.honeywell.com](http://customer.honeywell.com), then use the adapter to connect to the drive.

### PROGRAMMING AND COMMISSIONING

You'll have it all at your fingertips:

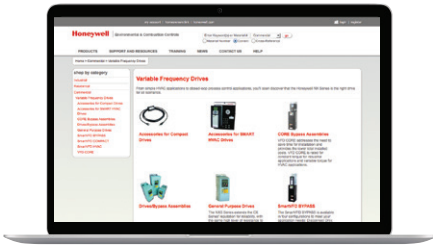
- Upload and download parameters to the SmartVFD drive for viewing and editing with maximum, minimum and default values for each parameter
- Directly control the drive to run it through its paces
- Save parameters for offline editing
- Directly control the drive speed in real time

### MONITORING AND DIAGNOSTICS

See it all onscreen:

- Monitor parameters in real time
- Save screen shots and export values to a spreadsheet
- Pause a real-time monitoring window to capture accurate data
- For diagnostic assistance, view detailed active faults, the fault history (up to 40 stored faults), and I/O states

## Smart Contacts and Websites



### HONEYWELL TAKE-OFF SERVICE

1. Submit your information in one of the following ways:
  - a) E-mail to [takeoff.service@honeywell.com](mailto:takeoff.service@honeywell.com) (preferred)
  - b) Fax toll-free to 1-877-880-3386

2. Include your desired turn-around time
3. Take-Off Service staff will send you a confirmation that your e-mail or fax was received. We always attempt to have your request finished as soon as possible. Please note, however, that the quality of the submitted information largely determines the turn-around time. We will work closely with you to ensure that we have enough information to move forward as quickly as possible.
4. Following take-off completion, a final product schedule spreadsheet will be returned to you that includes:
  - Complete product schedule
  - Base Price
  - Directions on how to order Honeywell products
  - Links to product submittals
  - Quote identification number

#### Learn More:

[buildingcontrols.honeywell.com](http://buildingcontrols.honeywell.com)

#### For more information

VFD Technical Hotline

888-516-9347 option 4

[BuildingsProductSupport@Honeywell.com](mailto:BuildingsProductSupport@Honeywell.com)

#### Home and Building Technologies

715 Peachtree Street NE

Atlanta, GA 30308

[honeywell.com](http://honeywell.com)

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