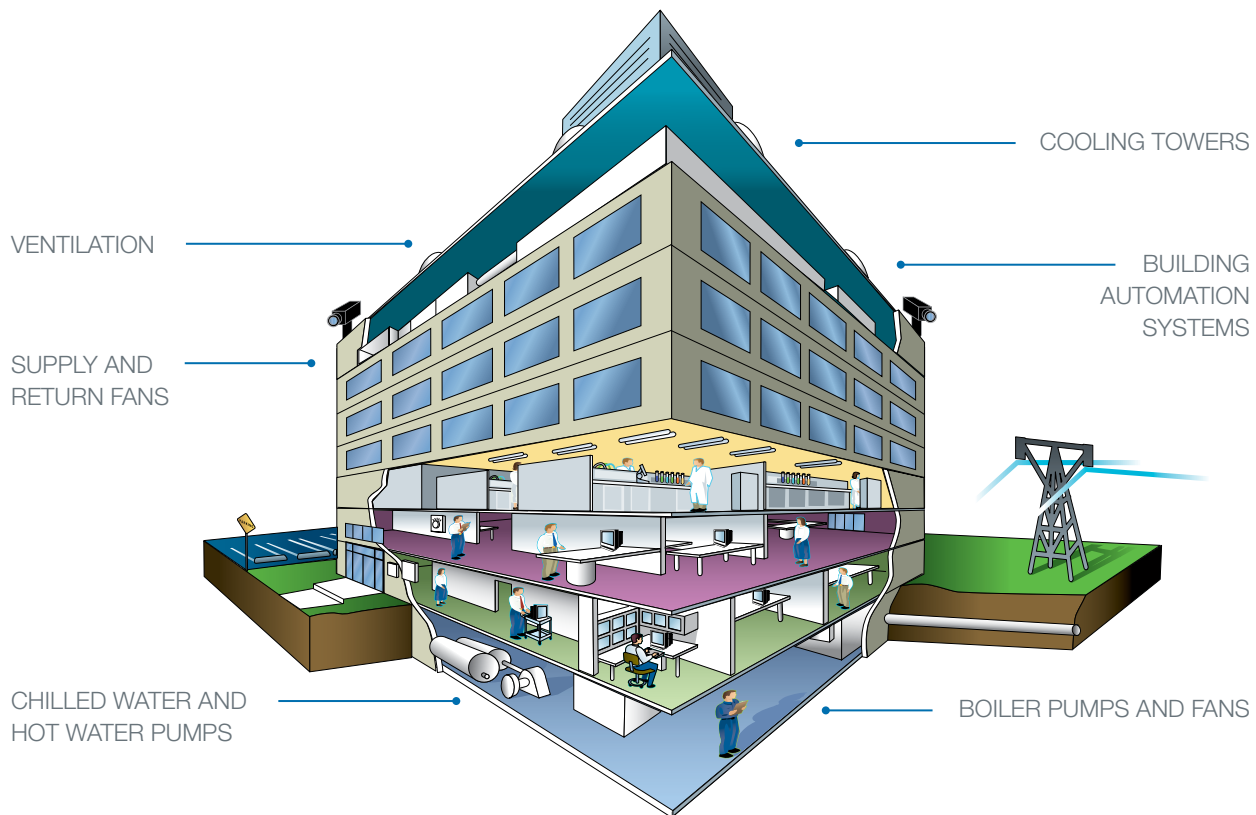




**The Smart Choice  
for Energy Savings.**

# 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 customer. 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 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.

## 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



## HIGH-RESOLUTION GRAPHIC DISPLAY

It's not just easy on the eyes, it's also easy to use. The menu driven display shows the min, max 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.



## 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

#### SmartVFD 3-Contactor Bypass with Auto-Bypass

The package adds the control capabilities below to the standard three Contactor Bypass.

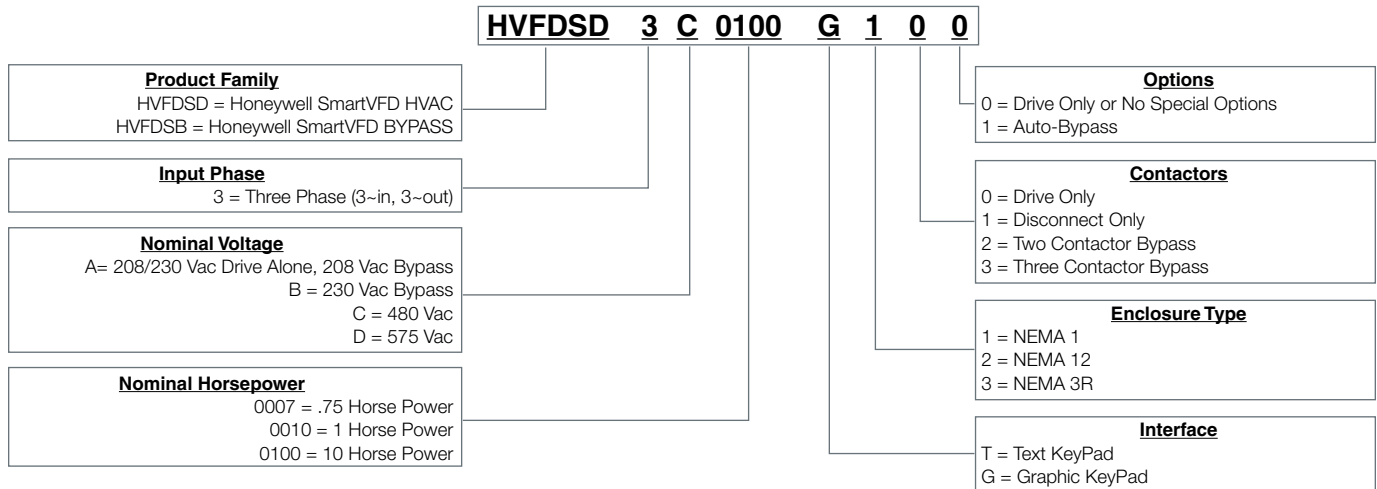
- Any VFD fault will automatically send the bypass to BYPASS mode
- A contact closure sends the bypass to BYPASS mode
- Dry contacts indicate when the bypass is in BYPASS mode, alerting the building management system

### SLEEKER. SMALLER. SMARTER.

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



# 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 environment) 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 140° 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

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	HVFSD3C0015G100	HVFSD3C0015G200	HVFSD3C0015G300
	2	4.8	4	HVFSD3C0020G100	HVFSD3C0020G200	HVFSD3C0020G300
	3	5.6	4	HVFSD3C0030G100	HVFSD3C0030G200	HVFSD3C0030G300
	4	8	4	HVFSD3C0040G100	HVFSD3C0040G200	HVFSD3C0040G300
	5	9.6	4	HVFSD3C0050G100	HVFSD3C0050G200	HVFSD3C0050G300
	7.5	12	4	HVFSD3C0075G100	HVFSD3C0075G200	HVFSD3C0075G300
	10	16	5	HVFSD3C0100G100	HVFSD3C0100G200	HVFSD3C0100G300
	15	23	5	HVFSD3C0150G100	HVFSD3C0150G200	HVFSD3C0150G300
	20	31	5	HVFSD3C0200G100	HVFSD3C0200G200	HVFSD3C0200G300
	25	38	6	HVFSD3C0250G100	HVFSD3C0250G200	HVFSD3C0250G300
	30	46	6	HVFSD3C0300G100	HVFSD3C0300G200	HVFSD3C0300G300
	40	61	6	HVFSD3C0400G100	HVFSD3C0400G200	HVFSD3C0400G300
	50	72	7	HVFSD3C0500G100	HVFSD3C0500G200	HVFSD3C0500G300
	60	87	7	HVFSD3C0600G100	HVFSD3C0600G200	HVFSD3C0600G300
	75	105	7	HVFSD3C0750G100	HVFSD3C0750G200	HVFSD3C0750G300
	100	140	8	HVFSD3C1000G100	HVFSD3C1000G200	HVFSD3C1000G300
	125	170	8	HVFSD3C1250G100	HVFSD3C1250G200	HVFSD3C1250G300
150	205	8	HVFSD3C1500G100	HVFSD3C1500G200	HVFSD3C1500G300	
200	261	9	HVFSD3C2000G100	HVFSD3C2000G200	-	
250	310	9	HVFSD3C2500G100	HVFSD3C2500G200	-	
208/ 230 Vac	HP	AMPS	Frame	NEMA 1 Drive Alone	NEMA 12 Drive Alone	NEMA 3R Drive Alone
	.75	3.7	4	HVFSD3A0007G100	HVFSD3A0007G200	HVFSD3A0007G300
	1	4.8	4	HVFSD3A0010G100	HVFSD3A0010G200	HVFSD3A0010G300
	1.5	6.6	4	HVFSD3A0015G100	HVFSD3A0015G200	HVFSD3A0015G300
	2	8	4	HVFSD3A0020G100	HVFSD3A0020G200	HVFSD3A0020G300
	3	11	4	HVFSD3A0030G100	HVFSD3A0030G200	HVFSD3A0030G300
	5	18	5	HVFSD3A0050G100	HVFSD3A0050G200	HVFSD3A0050G300
	7.5	24	5	HVFSD3A0075G100	HVFSD3A0075G200	HVFSD3A0075G300
	10	31	5	HVFSD3A0100G100	HVFSD3A0100G200	HVFSD3A0100G300
	15	48	6	HVFSD3A0150G100	HVFSD3A0150G200	HVFSD3A0150G300
	20	62	6	HVFSD3A0200G100	HVFSD3A0200G200	HVFSD3A0200G300
	25	75	7	HVFSD3A0250G100	HVFSD3A0250G200	HVFSD3A0250G300
	30	88	7	HVFSD3A0300G100	HVFSD3A0300G200	HVFSD3A0300G300
	40	105	7	HVFSD3A0400G100	HVFSD3A0400G200	HVFSD3A0400G300
	50	140	8	HVFSD3A0500G100	HVFSD3A0500G200	HVFSD3A0500G300
	60	170	8	HVFSD3A0600G100	HVFSD3A0600G200	HVFSD3A0600G300
	75	205	8	HVFSD3A0750G100	HVFSD3A0750G200	HVFSD3A0750G300
100	261	9	HVFSD3A1000G100	HVFSD3A1000G200	-	
125	310	9	HVFSD3A1250G100	HVFSD3A1250G200	-	

### 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-Cont. 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-Cont. 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-Cont. 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

## 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-Cont. Bypass + Auto-Bypass
460 Vac	1.5	3.4	4	HVFD SB3C0015G210	HVFD SB3C0015G220	HVFD SB3C0015G230	HVFD SB3C0015G231
	2	4.8	4	HVFD SB3C0020G210	HVFD SB3C0020G220	HVFD SB3C0020G230	HVFD SB3C0020G231
	3	5.6	4	HVFD SB3C0030G210	HVFD SB3C0030G220	HVFD SB3C0030G230	HVFD SB3C0030G231
	4	8	4	HVFD SB3C0040G210	HVFD SB3C0040G220	HVFD SB3C0040G230	HVFD SB3C0040G231
	5	9.6	4	HVFD SB3C0050G210	HVFD SB3C0050G220	HVFD SB3C0050G230	HVFD SB3C0050G231
	7.5	12	4	HVFD SB3C0075G210	HVFD SB3C0075G220	HVFD SB3C0075G230	HVFD SB3C0075G231
	10	16	5	HVFD SB3C0100G210	HVFD SB3C0100G220	HVFD SB3C0100G230	HVFD SB3C0100G231
	15	23	5	HVFD SB3C0150G210	HVFD SB3C0150G220	HVFD SB3C0150G230	HVFD SB3C0150G231
	20	31	5	HVFD SB3C0200G210	HVFD SB3C0200G220	HVFD SB3C0200G230	HVFD SB3C0200G231
	25	38	6	HVFD SB3C0250G210	HVFD SB3C0250G220	HVFD SB3C0250G230	HVFD SB3C0250G231
	30	46	6	HVFD SB3C0300G210	HVFD SB3C0300G220	HVFD SB3C0300G230	HVFD SB3C0300G231
	40	61	6	HVFD SB3C0400G210	HVFD SB3C0400G220	HVFD SB3C0400G230	HVFD SB3C0400G231
	50	72	7	HVFD SB3C0500G210	HVFD SB3C0500G220	HVFD SB3C0500G230	HVFD SB3C0500G231
	60	87	7	HVFD SB3C0600G210	HVFD SB3C0600G220	HVFD SB3C0600G230	HVFD SB3C0600G231
	75	105	7	HVFD SB3C0750G210	HVFD SB3C0750G220	HVFD SB3C0750G230	HVFD SB3C0750G231
100	140	8	HVFD SB3C1000G210	HVFD SB3C1000G220	HVFD SB3C1000G230	HVFD SB3C1000G231	
125	170	8	HVFD SB3C1250G210	HVFD SB3C1250G220	HVFD SB3C1250G230	HVFD SB3C1250G231	
150	205	8	HVFD SB3C1500G210	HVFD SB3C1500G220	HVFD SB3C1500G230	HVFD SB3C1500G231	
	HP	AMPS	Frame	NEMA 12 Fused Disconnect	NEMA 12 2-Contactor Bypass	NEMA 12 3-Contactor Bypass	NEMA 12 3-Cont. Bypass + Auto-Bypass
208 Vac	.75	3.7	4	HVFD SB3A0007G210	HVFD SB3A0007G220	HVFD SB3A0007G230	HVFD SB3A0007G231
	1	4.8	4	HVFD SB3A0010G210	HVFD SB3A0010G220	HVFD SB3A0010G230	HVFD SB3A0010G231
	1.5	6.6	4	HVFD SB3A0015G210	HVFD SB3A0015G220	HVFD SB3A0015G230	HVFD SB3A0015G231
	2	8	4	HVFD SB3A0020G210	HVFD SB3A0020G220	HVFD SB3A0020G230	HVFD SB3A0020G231
	3	11	4	HVFD SB3A0030G210	HVFD SB3A0030G220	HVFD SB3A0030G230	HVFD SB3A0030G231
	5	18	5	HVFD SB3A0050G210	HVFD SB3A0050G220	HVFD SB3A0050G230	HVFD SB3A0050G231
	7.5	24	5	HVFD SB3A0075G210	HVFD SB3A0075G220	HVFD SB3A0075G230	HVFD SB3A0075G231
	10	31	5	HVFD SB3A0100G210	HVFD SB3A0100G220	HVFD SB3A0100G230	HVFD SB3A0100G231
	15	48	6	HVFD SB3A0150G210	HVFD SB3A0150G220	HVFD SB3A0150G230	HVFD SB3A0150G231
	20	62	6	HVFD SB3A0200G210	HVFD SB3A0200G220	HVFD SB3A0200G230	HVFD SB3A0200G231
	25	75	7	HVFD SB3A0250G210	HVFD SB3A0250G220	HVFD SB3A0250G230	HVFD SB3A0250G231
	30	88	7	HVFD SB3A0300G210	HVFD SB3A0300G220	HVFD SB3A0300G230	HVFD SB3A0300G231
	40	105	7	HVFD SB3A0400G210	HVFD SB3A0400G220	HVFD SB3A0400G230	HVFD SB3A0400G231
	50	140	8	HVFD SB3A0500G210	HVFD SB3A0500G220	HVFD SB3A0500G230	HVFD SB3A0500G231
	60	170	8	HVFD SB3A0600G210	HVFD SB3A0600G220	HVFD SB3A0600G230	HVFD SB3A0600G231
75	205	8	HVFD SB3A0750G210	HVFD SB3A0750G220	HVFD SB3A0750G230	HVFD SB3A0750G231	
	HP	AMPS	Frame	NEMA 12 Fused Disconnect	NEMA 12 2-Contactor Bypass	NEMA 12 3-Contactor Bypass	NEMA 12 3-Cont. Bypass + Auto-Bypass
230 Vac	.75	3.7	4	HVFD SB3B0007G210	HVFD SB3B0007G220	HVFD SB3B0007G230	HVFD SB3B0007G231
	1	4.8	4	HVFD SB3B0010G210	HVFD SB3B0010G220	HVFD SB3B0010G230	HVFD SB3B0010G231
	1.5	6.6	4	HVFD SB3B0015G210	HVFD SB3B0015G220	HVFD SB3B0015G230	HVFD SB3B0015G231
	2	8	4	HVFD SB3B0020G210	HVFD SB3B0020G220	HVFD SB3B0020G230	HVFD SB3B0020G231
	3	11	4	HVFD SB3B0030G210	HVFD SB3B0030G220	HVFD SB3B0030G230	HVFD SB3B0030G231
	5	18	5	HVFD SB3B0050G210	HVFD SB3B0050G220	HVFD SB3B0050G230	HVFD SB3B0050G231
	7.5	24	5	HVFD SB3B0075G210	HVFD SB3B0075G220	HVFD SB3B0075G230	HVFD SB3B0075G231
	10	31	5	HVFD SB3B0100G210	HVFD SB3B0100G220	HVFD SB3B0100G230	HVFD SB3B0100G231
	15	48	6	HVFD SB3B0150G210	HVFD SB3B0150G220	HVFD SB3B0150G230	HVFD SB3B0150G231
	20	62	6	HVFD SB3B0200G210	HVFD SB3B0200G220	HVFD SB3B0200G230	HVFD SB3B0200G231
	25	75	7	HVFD SB3B0250G210	HVFD SB3B0250G220	HVFD SB3B0250G230	HVFD SB3B0250G231
	30	88	7	HVFD SB3B0300G210	HVFD SB3B0300G220	HVFD SB3B0300G230	HVFD SB3B0300G231
	40	105	7	HVFD SB3B0400G210	HVFD SB3B0400G220	HVFD SB3B0400G230	HVFD SB3B0400G231
	50	140	8	HVFD SB3B0500G210	HVFD SB3B0500G220	HVFD SB3B0500G230	HVFD SB3B0500G231
	60	170	8	HVFD SB3B0600G210	HVFD SB3B0600G220	HVFD SB3B0600G230	HVFD SB3B0600G231
75	205	8	HVFD SB3B0750G210	HVFD SB3B0750G220	HVFD SB3B0750G230	HVFD SB3B0750G231	



### 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-Cont. Bypass + Auto-Bypass
460 Vac	1.5	3.4	4	HVFD3B3C0015G310	HVFD3B3C0015G320	HVFD3B3C0015G330	HVFD3B3C0015G331
	2	4.8	4	HVFD3B3C0020G310	HVFD3B3C0020G320	HVFD3B3C0020G330	HVFD3B3C0020G331
	3	5.6	4	HVFD3B3C0030G310	HVFD3B3C0030G320	HVFD3B3C0030G330	HVFD3B3C0030G331
	4	8	4	HVFD3B3C0040G310	HVFD3B3C0040G320	HVFD3B3C0040G330	HVFD3B3C0040G331
	5	9.6	4	HVFD3B3C0050G310	HVFD3B3C0050G320	HVFD3B3C0050G330	HVFD3B3C0050G331
	7.5	12	4	HVFD3B3C0075G310	HVFD3B3C0075G320	HVFD3B3C0075G330	HVFD3B3C0075G331
	10	16	5	HVFD3B3C0100G310	HVFD3B3C0100G320	HVFD3B3C0100G330	HVFD3B3C0100G331
	15	23	5	HVFD3B3C0150G310	HVFD3B3C0150G320	HVFD3B3C0150G330	HVFD3B3C0150G331
	20	31	5	HVFD3B3C0200G310	HVFD3B3C0200G320	HVFD3B3C0200G330	HVFD3B3C0200G331
	25	38	6	HVFD3B3C0250G310	HVFD3B3C0250G320	HVFD3B3C0250G330	HVFD3B3C0250G331
	30	46	6	HVFD3B3C0300G310	HVFD3B3C0300G320	HVFD3B3C0300G330	HVFD3B3C0300G331
	40	61	6	HVFD3B3C0400G310	HVFD3B3C0400G320	HVFD3B3C0400G330	HVFD3B3C0400G331
	50	72	7	HVFD3B3C0500G310	HVFD3B3C0500G320	HVFD3B3C0500G330	HVFD3B3C0500G331
	60	87	7	HVFD3B3C0600G310	HVFD3B3C0600G320	HVFD3B3C0600G330	HVFD3B3C0600G331
	75	105	7	HVFD3B3C0750G310	HVFD3B3C0750G320	HVFD3B3C0750G330	HVFD3B3C0750G331
100	140	8	HVFD3B3C1000G310	HVFD3B3C1000G320	HVFD3B3C1000G330	HVFD3B3C1000G331	
125	170	8	HVFD3B3C1250G310	HVFD3B3C1250G320	HVFD3B3C1250G330	HVFD3B3C1250G331	
150	205	8	HVFD3B3C1500G310	HVFD3B3C1500G320	HVFD3B3C1500G330	HVFD3B3C1500G331	
	HP	AMPS	Frame	NEMA 3R Fused Disconnect	NEMA 3R 2-Contactor Bypass	NEMA 3R 3-Contactor Bypass	NEMA 3R 3-Cont. Bypass + Auto-Bypass
208 Vac	.75	3.7	4	HVFD3B3A0007G310	HVFD3B3A0007G320	HVFD3B3A0007G330	HVFD3B3A0007G331
	1	4.8	4	HVFD3B3A0010G310	HVFD3B3A0010G320	HVFD3B3A0010G330	HVFD3B3A0010G331
	1.5	6.6	4	HVFD3B3A0015G310	HVFD3B3A0015G320	HVFD3B3A0015G330	HVFD3B3A0015G331
	2	8	4	HVFD3B3A0020G310	HVFD3B3A0020G320	HVFD3B3A0020G330	HVFD3B3A0020G331
	3	11	4	HVFD3B3A0030G310	HVFD3B3A0030G320	HVFD3B3A0030G330	HVFD3B3A0030G331
	5	18	5	HVFD3B3A0050G310	HVFD3B3A0050G320	HVFD3B3A0050G330	HVFD3B3A0050G331
	7.5	24	5	HVFD3B3A0075G310	HVFD3B3A0075G320	HVFD3B3A0075G330	HVFD3B3A0075G331
	10	31	5	HVFD3B3A0100G310	HVFD3B3A0100G320	HVFD3B3A0100G330	HVFD3B3A0100G331
	15	48	6	HVFD3B3A0150G310	HVFD3B3A0150G320	HVFD3B3A0150G330	HVFD3B3A0150G331
	20	62	6	HVFD3B3A0200G310	HVFD3B3A0200G320	HVFD3B3A0200G330	HVFD3B3A0200G331
	25	75	7	HVFD3B3A0250G310	HVFD3B3A0250G320	HVFD3B3A0250G330	HVFD3B3A0250G331
	30	88	7	HVFD3B3A0300G310	HVFD3B3A0300G320	HVFD3B3A0300G330	HVFD3B3A0300G331
	40	105	7	HVFD3B3A0400G310	HVFD3B3A0400G320	HVFD3B3A0400G330	HVFD3B3A0400G331
	50	140	8	HVFD3B3A0500G310	HVFD3B3A0500G320	HVFD3B3A0500G330	HVFD3B3A0500G331
	60	170	8	HVFD3B3A0600G310	HVFD3B3A0600G320	HVFD3B3A0600G330	HVFD3B3A0600G331
75	205	8	HVFD3B3A0750G310	HVFD3B3A0750G320	HVFD3B3A0750G330	HVFD3B3A0750G331	
	HP	AMPS	Frame	NEMA 3R Fused Disconnect	NEMA 3R 2-Contactor Bypass	NEMA 3R 3-Contactor Bypass	NEMA 3R 3-Cont. Bypass + Auto-Bypass
230 Vac	.75	3.7	4	HVFD3B3B0007G310	HVFD3B3B0007G320	HVFD3B3B0007G330	HVFD3B3B0007G331
	1	4.8	4	HVFD3B3B0010G310	HVFD3B3B0010G320	HVFD3B3B0010G330	HVFD3B3B0010G331
	1.5	6.6	4	HVFD3B3B0015G310	HVFD3B3B0015G320	HVFD3B3B0015G330	HVFD3B3B0015G331
	2	8	4	HVFD3B3B0020G310	HVFD3B3B0020G320	HVFD3B3B0020G330	HVFD3B3B0020G331
	3	11	4	HVFD3B3B0030G310	HVFD3B3B0030G320	HVFD3B3B0030G330	HVFD3B3B0030G331
	5	18	5	HVFD3B3B0050G310	HVFD3B3B0050G320	HVFD3B3B0050G330	HVFD3B3B0050G331
	7.5	24	5	HVFD3B3B0075G310	HVFD3B3B0075G320	HVFD3B3B0075G330	HVFD3B3B0075G331
	10	31	5	HVFD3B3B0100G310	HVFD3B3B0100G320	HVFD3B3B0100G330	HVFD3B3B0100G331
	15	48	6	HVFD3B3B0150G310	HVFD3B3B0150G320	HVFD3B3B0150G330	HVFD3B3B0150G331
	20	62	6	HVFD3B3B0200G310	HVFD3B3B0200G320	HVFD3B3B0200G330	HVFD3B3B0200G331
	25	75	7	HVFD3B3B0250G310	HVFD3B3B0250G320	HVFD3B3B0250G330	HVFD3B3B0250G331
	30	88	7	HVFD3B3B0300G310	HVFD3B3B0300G320	HVFD3B3B0300G330	HVFD3B3B0300G331
	40	105	7	HVFD3B3B0400G310	HVFD3B3B0400G320	HVFD3B3B0400G330	HVFD3B3B0400G331
	50	140	8	HVFD3B3B0500G310	HVFD3B3B0500G320	HVFD3B3B0500G330	HVFD3B3B0500G331
	60	170	8	HVFD3B3B0600G310	HVFD3B3B0600G320	HVFD3B3B0600G330	HVFD3B3B0600G331
75	205	8	HVFD3B3B0750G310	HVFD3B3B0750G320	HVFD3B3B0750G330	HVFD3B3B0750G331	

# Smart Selection

## NEMA 1

Frame Size	HP And Voltage		Configuration	Dimensions (in)		
	208/230 VAC	460 VAC		W	H	D
4	0.75-4 HP	1.5-7.5 HP	Drive alone	5	12.9	7.5
			Disconnect	8.9	31.7	10.7
			2-Contactor	8.9	31.7	10.7
			3-Contactor	8.9	38.7	10.7
			3-Contactor with Auto-Bypass	8.9	38.7	10.7
5	5-10HP	10-20 HP	Drive alone	5.7	16.5	8.4
			Disconnect	8.9	34.5	10.7
			2-Contactor	8.9	34.5	10.7
			3-Contactor	8.9	41.5	10.7
			3-Contactor with Auto-Bypass	8.9	41.5	10.7
6	15-20HP	25-40 HP	Drive alone	7.7	21.9	9
			Disconnect	12.4	45	12.6
			2-Contactor	12.4	45	12.6
			3-Contactor	12.4	55	12.6
			3-Contactor with Auto-Bypass	12.4	55	12.6
7	25-40HP	50-75 HP	Drive alone	9.3	25.4	10.2
			Disconnect	20.84	51.5	11.4
			2-Contactor	20.84	51.5	11.4
			3-Contactor	20.84	59	11.4
			3-Contactor with Auto-Bypass	20.84	59	11.4
8	50-75	100-150	Drive alone	11.4	38	13.5
			Disconnect	25	60	16.2
			2-Contactor	25	60	16.2
			3-Contactor	25	70	16.2
			3-Contactor with Auto-Bypass	25	70	16.2
9	100-125	200-250	Drive alone	18.9	45.3	14.4

## NEMA 12

Frame Size	HP And Voltage		Configuration	Dimensions (in)		
	208/230 VAC	460 VAC		W	H	D
4	0.75-4 HP	1.5-7.5 HP	Drive alone	5	12.9	7.5
			Disconnect	12	36	8.8
			2-Contactor	16	36	8.8
			3-Contactor	16	36	8.8
			3-Contactor with Auto-Bypass	16	36	8.8
5	5-10HP	10-20 HP	Drive alone	5.7	16.5	8.4
			Disconnect	12	40	8.8
			2-Contactor	16	44	8.8
			3-Contactor	16	44	8.8
			3-Contactor with Auto-Bypass	16	44	8.8
6	15-20HP	25-40 HP	Drive alone	7.7	21.9	9
			Disconnect	16	46	10.8
			2-Contactor	20	54	10.8
			3-Contactor	20	54	10.8
			3-Contactor with Auto-Bypass	20	54	10.8
7	25-40HP	50-75 HP	Drive alone	9.3	25.4	10.2
			Disconnect	16	50	11.8
			2-Contactor	24	64	13.6
			3-Contactor	24	64	13.6
			3-Contactor with Auto-Bypass	24	64	13.6
8	50-75	100-150	Drive alone	11.4	38	13.5
			Disconnect	20	64	15.1
			2-Contactor	56	48	15.1
			3-Contactor	56	48	15.1
			3-Contactor with Auto-Bypass	56	48	15.1
9	100-125	200-250	Drive alone	18.9	45.3	14.4

## NEMA 3R

Frame Size	HP And Voltage		Configuration	Dimensions (in)		
	208/230 VAC	460 VAC		W	H	D
4	0.75-4 HP	1.5-7.5 HP	Drive alone	20.5	20	10
			Disconnect	20.5	20	10
			2-Contactor	24.5	24	10
			3-Contactor	24.5	24	10
			3-Contactor with Auto-Bypass	24.5	24	10
5	5-10HP	10-20 HP	Drive alone	20.5	24	10
			Disconnect	24.5	24	10
			2-Contactor	28.5	30	10
			3-Contactor	28.5	30	10
			3-Contactor with Auto-Bypass	28.5	30	10
6	15-20HP	25-40 HP	Drive alone	28.5	36	10
			Disconnect	28.5	36	10
			2-Contactor	34.5	36	10
			3-Contactor	34.5	36	10
			3-Contactor with Auto-Bypass	34.5	36	10
7	25-40HP	50-75 HP	Drive alone	28.5	48	12
			Disconnect	28.5	48	12
			2-Contactor	40.4	48	12
			3-Contactor	40.4	48	12
			3-Contactor with Auto-Bypass	40.4	48	12
8	50-75	100-150	Drive alone	11.4	38	13.5
			Disconnect	40.4	48	12
			2-Contactor	40.4	60	12
			3-Contactor	40.4	60	12
			3-Contactor with Auto-Bypass	40.4	60	12

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.

### VFD Pricing/Job Estimating Tools

For additional tools you can use for the selection and pricing of VFDs, click on the "Commercial Components Estimating Tools" link at [customer.honeywell.com](http://customer.honeywell.com).

# 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)	SMART
HVFDSDOPT1R05DI/U	1 x RO, 5 x DI (42-240 VAC, D- and E- slot compatible)	SMART
HVFDSDREP2R01T/U	2 x RO + Thermistor (B- slot compatible)	SMART
HVFDSDOPT2R01T/U	2 x RO + Thermistor (D- and E- slot compatible)	SMART
HVFDSDOPT3R0/U	3 x RO (D- and E- slot compatible)	SMART
HVFDSDBATTERY/U	Battery Package, 5 pcs, for Real Time Clock	SMART
HVFDSDREP3R0/U	3 x RO (B- slot compatible)	SMART
HVFDSDOPT6DI/U	6 x DI / DO Programmable (D- and E- slot compatible)	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	COMPACT & SMART
HVFDCCMCA/U	SmartVFD Compact Commissioning Device	COMPACT
HVFDCCMCAKIT/U	SmartVFD Compact Commissioning Kit	COMPACT
HVFDCCNEMA1FR1/U	SmartVFD Compact NEMA 1- Kit Frame 1	COMPACT
HVFDCCNEMA1FR2/U	SmartVFD Compact NEMA 1- Kit Frame 2	COMPACT
HVFDCCNEMA1FR3/U	SmartVFD Compact NEMA 1- Kit Frame 3	COMPACT
HVFDCCDTRAINER/U	SmartVFD Compact Training Demonstration Kit	COMPACT

# 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

## Main VFD Website

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

## VFD Technical Hotline

763-954-6464 or  
888-516-9347 option 4  
[techmail@honeywell.com](mailto:techmail@honeywell.com)

## VFD for Consulting Engineer Site

[www.specifyhoneywell.com/products/smart-vfd-by-pass](http://www.specifyhoneywell.com/products/smart-vfd-by-pass)

## Literature Ordering for VFD

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

## Honeywell Promotional Materials

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

## Buildings University Online and Face-to-Face Training

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

## New Product and Programs Website

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

## Learn More

For more information on Honeywell Variable Frequency Drives, contact your local Honeywell distributor, your Honeywell sales representative, call 1-800-466-3993 or visit [customer.honeywell.com/VFD](http://customer.honeywell.com/VFD).

## Automation and Control Solutions

In the U.S.:

Honeywell  
1985 Douglas Drive North  
Golden Valley, MN 55422-3992

In Canada:

Honeywell Limited  
35 Dynamic Drive  
Toronto, Ontario M1V 4Z9

In Latin America:

Honeywell  
9315 N.W. 112th Avenue  
Miami, FL 33178  
[www.honeywell.com](http://www.honeywell.com)

