



**Control. Capabilities. Performance.  
At Your Fingertips**

# Optimize Capability, Minimize Waste

You already know the energy savings variable frequency drives (VFDs) deliver. Most VFDs are loaded with features that you don't need or do not fit your application. With Honeywell's SmartVFD COMPACT, you select the capabilities you need. Our compact line lets you customize the drive features to the application, eliminating waste.



## Not Too Many, Not Too Few

The SmartVFD COMPACT isn't overloaded with features you won't use. Nor are you limited to just a few. Instead, the SmartVFD COMPACT provides the perfect balance, with essential features like a standard PI Controller and the ability to program without the need for line voltage. From there, you can choose only the options you need to meet your application:

- Interface
- Enclosure
- Outputs
- Filter
- Inputs

## Maximize Space

The SmartVFD COMPACT lets you make the most of the available space in your application. It's a true micro drive — among the smallest, most streamlined VFDs on the market, which saves space in your equipment cabinet.

## Minimize Expense

Because you choose only the options you need, you save money to keep your installed cost low. Along with the compact size for installation ease, the intuitive user interface makes commissioning a breeze. In short, the SmartVFD COMPACT is built to save you time.

- Easy commissioning
  - Intuitive user interface
  - PI controller, standard
  - Program without the need for a main power supply
- Easy installation
  - The most streamlined VFDs on the market
  - DIN rail or screw mounting
  - Side-by-side mounting
- Easy communication
  - Up to seven programming control inputs
  - Up to three programmable control outputs
  - Modbus RTU



FRAME SIZE	FRAME HEIGHT	FRAME WIDTH	FRAME DEPTH
MI1	6.2"	2.6"	3.9"
MI2	7.7"	3.5"	4.0"
MI3	10.2"	3.9"	4.3"

Each drive requires 3.9 inches above and 2.0 inches below of free space, for cooling airflow circulation.



## Programming At Your Fingertips

The SmartVFD COMPACT architecture is created with ease of use and speed in mind. With the touch wheel interface you can quickly configure the drive to your specific application.

## 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 Compact 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

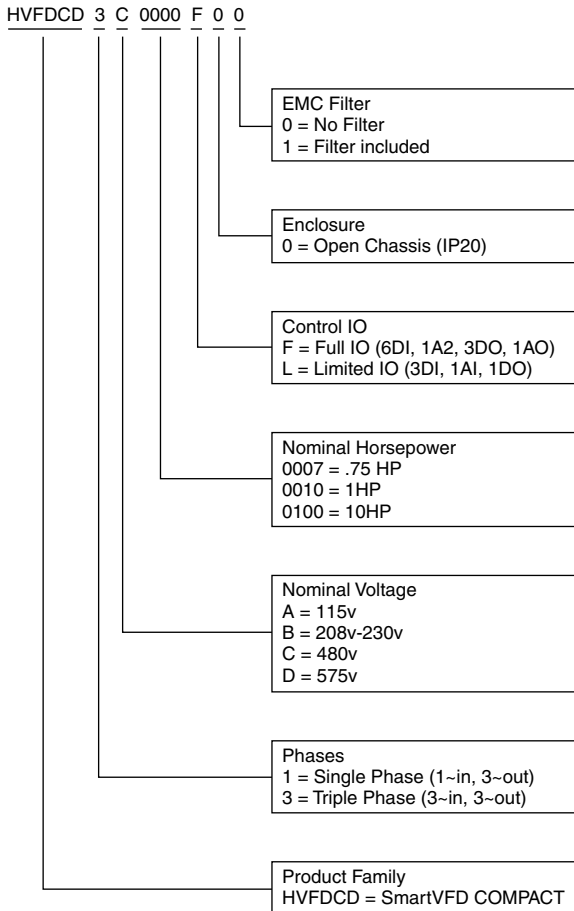
## Control Connection Options

API	TERMINAL	SIGNAL, DEFAULT SETTINGS
LIMITED	+10Vref	Reference voltage
	AI1	Analog input 0/4-20 mA
	GND	I/O ground
	+24Volt	24 V auxiliary voltage
	GND	I/O ground
	DIN1	Start forward
	DIN2	Start reverse
	DIN3	Fault reset
	A	Serial bus (Modbus RTU)
	B	Serial bus
	RO11	Relay output 1, FAULT, Change over
	RO12	Relay output 1, FAULT, NC
	FULL	A12
GND		I/O ground
GND		I/O ground
DIN4		Preset speed 1
DIN5		Preset speed 2
DIN6		Preset speed 3
AO		Analog output, output frequency
DO		Ready
RO21		Relay output 2, RUN, NO
RO22		Relay output 2, RUN, NO
RO13	Relay output 1, FAULT, NO	



## Easy To Select Model Numbers

Honeywells SmartVFD COMPACT model numbers follow the same conventions. Use the figure below to select the appropriate drive for your application.



### SmartVFD COMPACT Accessories

Model Number	Description
HVFDCABLE	SmartVFD Commissioning Cable and USB Adaptor
HVFDCDMCA	Compact Commissioning Device
HVFDCDMCAKIT	Compact Commissioning Kit
HVFDCDNEMA1FR1	Compact NEMA 1 Kit Frame Size1
HVFDCDNEMA1FR2	Compact NEMA 1 Kit Frame Size2
HVFDCDNEMA1FR3	Compact NEMA 1 Kit Frame Size3
HVFDCDTRAINER	Compact Training Demonstration Kit

Frame Size: MI1		Dimensions: 6.2" H x 2.6" W x 3.9" D		
Nominal Voltage	Nom. HP (Nom. Current)	EMC Filter	Full IO (6DI, 2AI, 1AO, 1DO, 3RO, Modbus)	Limited IO (3DI, 1AI, 2RO, Modbus)
460 3~in 3~out	0.5 HP (1.3 A)	No	HVFDCD3C0005F00	HVFDCD3C0005L00
		EMC	HVFDCD3C0005F01	HVFDCD3C0005L01
	0.75 HP (1.9 A)	No	HVFDCD3C0007F00	HVFDCD3C0007L00
	EMC	HVFDCD3C0007F01	HVFDCD3C0007L01	
	1 HP (2.4 A)	No	HVFDCD3C0010F00	HVFDCD3C0010L00
		EMC	HVFDCD3C0010F01	HVFDCD3C0010L01
208/230 1~in 3~out	0.25 HP (1.7 A)	No	HVFDCD1B0003F00	HVFDCD1B0003L00
		EMC	HVFDCD1B0003F01	HVFDCD1B0003L01
	0.5 HP (2.4 A)	No	HVFDCD1B0005F00	HVFDCD1B0005L00
	EMC	HVFDCD1B0005F01	HVFDCD1B0005L01	
	0.75 HP (2.8 A)	No	HVFDCD1B0007F00	HVFDCD1B0007L00
		EMC	HVFDCD1B0007F01	HVFDCD1B0007L01
208/230 3~in 3~out	0.25 HP (1.7 A)	No	HVFDCD3B0003F00	HVFDCD3B0003L00
	0.5 HP (2.4 A)	No	HVFDCD3B0005F00	HVFDCD3B0005L00
Frame Size: MI2		Dimensions: 7.7" H x 3.5" W x 4.0" D		
Nominal Voltage	Nom. HP (Nom. Current)	EMC Filter	Full IO (6DI, 2AI, 1AO, 1DO, 3RO, Modbus)	Limited IO (3DI, 1AI, 2RO, Modbus)
460 3~in 3~out	1.5 HP (3.3 A)	No	HVFDCD3C0015F00	HVFDCD3C0015L00
		EMC	HVFDCD3C0015F01	HVFDCD3C0015L01
	2 HP (4.3 A)	No	HVFDCD3C0020F00	HVFDCD3C0020L00
	EMC	HVFDCD3C0020F01	HVFDCD3C0020L01	
	3 HP (5.6 A)	No	HVFDCD3C0030F00	HVFDCD3C0030L00
		EMC	HVFDCD3C0030F01	HVFDCD3C0030L01
208/230 1~in 3~out	1 HP (3.7A)	No	HVFDCD1B0010F00	HVFDCD1B0010L00
		EMC	HVFDCD1B0010F01	HVFDCD1B0010L01
	1.5 HP (4.8 A)	No	HVFDCD1B0015F00	HVFDCD1B0015L00
	EMC	HVFDCD1B0015F01	HVFDCD1B0015L01	
	2 HP (7 A)	No	HVFDCD1B0020F00	HVFDCD1B0020L00
		EMC	HVFDCD1B0020F01	HVFDCD1B0020L01
208/230 3~in 3~out	1 HP (3.7A)	No	HVFDCD3B0010F00	HVFDCD3B0010L00
	2 HP (7 A)	No	HVFDCD3B0020F00	HVFDCD3B0020L00
115V/230V 1~in 3~out	0.25 HP (1.7 A)	No	HVFDCD1A0003F00	HVFDCD1A0003L00
		No	HVFDCD1A0005F00	HVFDCD1A0005L00
	1 HP (3.7A)	No	HVFDCD1A0010F00	HVFDCD1A0010L00
Frame Size: MI3		Dimensions: 10.2" H x 3.9" W x 4.3" D		
Nominal Voltage	Nom. HP (Nom. Current)	EMC Filter	Full IO (6DI, 2AI, 1AO, 1DO, 3RO, Modbus)	Limited IO (3DI, 1AI, 2RO, Modbus)
460 3~in 3~out	4 HP (7.6 A)	No	HVFDCD3C0040F00	HVFDCD3C0040L00
		EMC	HVFDCD3C0040F01	HVFDCD3C0040L01
	5 HP (9 A)	No	HVFDCD3C0050F00	HVFDCD3C0050L00
	EMC	HVFDCD3C0050F01	HVFDCD3C0050L01	
	7.5 HP (12 A)	No	HVFDCD3C0075F00	HVFDCD3C0075L00
		EMC	HVFDCD3C0075F01	HVFDCD3C0075L01
208/230 1~in 3~out	3 HP (11 A)	No	HVFDCD1B0030F00	HVFDCD1B0030L00
		EMC	HVFDCD1B0030F01	HVFDCD1B0030L01
208/230 3~in 3~out	3 HP (11 A)	No	HVFDCD3B0030F00	HVFDCD3B0030L00
115V/230V 1~in 3~out	1.5 HP (4.8 A)	No	HVFDCD1A0015F00	HVFDCD1A0015L00
575V 3~in 3~out	1 HP (2 A)	No	HVFDCD3D0010F00	HVFDCD3D0010L00
	2 HP (3.6 A)	No	HVFDCD3D0020F00	HVFDCD3D0020L00
	3 HP (5 A)	No	HVFDCD3D0030F00	HVFDCD3D0030L00
	5 HP (7.6 A)	No	HVFDCD3D0050F00	HVFDCD3D0050L00
	7.5 HP (10.4 A)	No	HVFDCD3D0075F00	HVFDCD3D0075L00

### Learn More

For more information on Honeywell's SmartVFD COMPACT, visit [beyondinnovation.honeywell.com](http://beyondinnovation.honeywell.com)

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