



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

Save More Energy... Think Small

You already know the energy savings variable frequency drives (VFDs) deliver. With Honeywell's SmartVFD COMPACT drives you can easily capture energy savings on smaller motors in tighter fit situations. Maybe you think smaller motor modulation doesn't make sense but even if you slow the motor 10%, you can save up to 27% in energy consumption. Whether it's one large motor or 7 small ones, the savings can and should be mined.



Strong Performance, Compact Package

It's hard to believe so much savings can be generated from such a small package. The SmartVFD COMPACT variable frequency drive is a tiny workhorse that provides essential features like a standard PI Controller and the ability to program the drive without the need for line voltage.

How many 1, 2, 3... HP motors do you have that could frequently operate at reduced speed? Or - how many of those motors are oversized and could always operate at 85 or 90% speed?

Consider the savings...

Finding Space for the Drive

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

No room in your cabinet? Our NEMA 1 kits keep space requirements to a minimum.

Minimizing Installed Cost

A cost-effective solution includes installation and commissioning considerations. Along with the compact size for installation ease, our PC Tool makes commissioning a breeze. In short, the SmartVFD COMPACT is built to save you time.

- Easy commissioning
 - Intuitive user interface
 - PI controller, standard
 - Ability to program without line voltage
- 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. Drives may be mounted side-by-side. No clearance required.

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 Compact Commissioning Kit (HVFDCDMCAKIT/U), 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, then use the adapter and cable 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 and/or backup

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
- View detailed active faults, fault history (up to 40 stored faults) and I/O states to assist in diagnostics

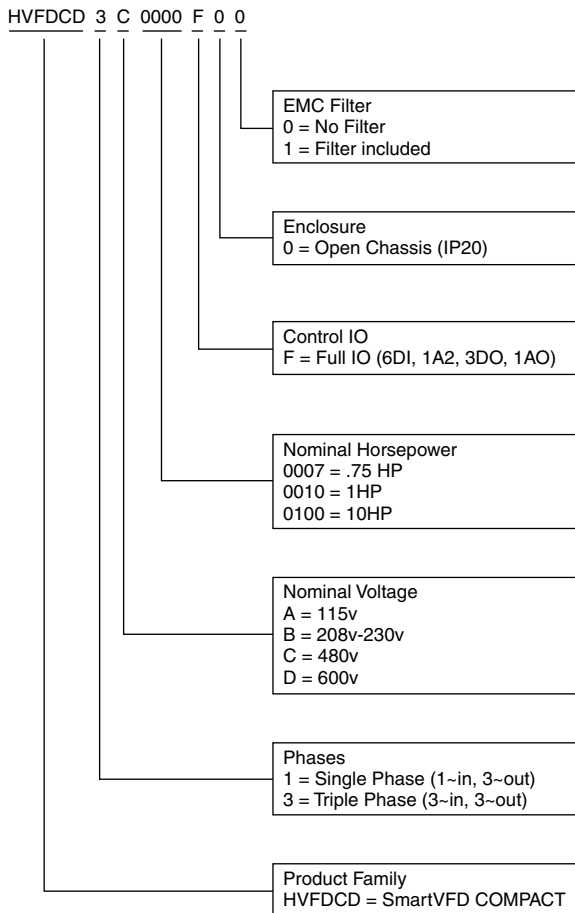
Control Input and Output Capabilities

TERMINAL	SIGNAL, DEFAULT SETTINGS
+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
A12	Analog input 0-10V
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 convention as our SmartVFD HVAC drives.



SmartVFD COMPACT Accessories	
Model Number	Description
HVFDCCABLE	SmartVFD Commissioning Cable and USB Adaptor
HVFDCCMCA	Compact Commissioning Device
HVFDCCMCAKIT	Compact Commissioning Kit
HVFDCCNEMA1FR1	Compact NEMA 1 Kit Frame Size 1
HVFDCCNEMA1FR2	Compact NEMA 1 Kit Frame Size 2
HVFDCCNEMA1FR3	Compact NEMA 1 Kit Frame Size 3
HVFDCCDTRAINER	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)
460 3~in 3~out	0.5 HP (1.3 A)	No	HVFDCD3C0005F00
		EMC	HVFDCD3C0005F01
	0.75 HP (1.9 A)	No	HVFDCD3C0007F00
		EMC	HVFDCD3C0007F01
	1 HP (2.4 A)	No	HVFDCD3C0010F00
		EMC	HVFDCD3C0010F01
208/230 1~in 3~out	0.25 HP (1.7 A)	EMC	HVFDCD1B0003F01
	0.5 HP (2.4 A)	EMC	HVFDCD1B0005F01
	0.75 HP (2.8 A)	EMC	HVFDCD1B0007F01
208/230 3~in 3~out	0.25 HP (1.7 A)	No	HVFDCD3B0003F00
	0.5 HP (2.4 A)	No	HVFDCD3B0005F00

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)
460 3~in 3~out	1.5 HP (3.3 A)	No	HVFDCD3C0015F00
		EMC	HVFDCD3C0015F01
	2 HP (4.3 A)	No	HVFDCD3C0020F00
		EMC	HVFDCD3C0020F01
	3 HP (5.6 A)	No	HVFDCD3C0030F00
		EMC	HVFDCD3C0030F01
208/230 1~in 3~out	1 HP (3.7 A)	EMC	HVFDCD1B0010F01
	1.5 HP (4.8 A)	EMC	HVFDCD1B0015F01
	2 HP (7 A)	EMC	HVFDCD1B0020F01
208/230 3~in 3~out	1 HP (3.7A)	No	HVFDCD3B0010F00
	2 HP (7 A)	No	HVFDCD3B0020F00
115V/230V 1~in 3~out	0.25 HP (1.7 A)	No	HVFDCD1A0003F00
	0.5 HP (2.4 A)	No	HVFDCD1A0005F00
	1 HP (3.7A)	No	HVFDCD1A0010F00

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)
460 3~in 3~out	4 HP (7.6 A)	No	HVFDCD3C0040F00
		EMC	HVFDCD3C0040F01
	5 HP (9 A)	No	HVFDCD3C0050F00
		EMC	HVFDCD3C0050F01
	7.5 HP (12 A)	No	HVFDCD3C0075F00
		EMC	HVFDCD3C0075F01
208/230 1~in 3~out	3 HP (11 A)	EMC	HVFDCD1B0030F01
208/230 3~in 3~out	3 HP (11 A)	No	HVFDCD3B0030F00
115V/230V 1~in 3~out	1.5 HP (4.8 A)	No	HVFDCD1A0015F00
575V 3~in 3~out	1 HP (2 A)	No	HVFDCD3D0010F00
	2 HP (3.6 A)	No	HVFDCD3D0020F00
	3 HP (5 A)	No	HVFDCD3D0030F00
	5 HP (7.6 A)	No	HVFDCD3D0050F00
	7.5 HP (10.4 A)	No	HVFDCD3D0075F00

Learn More

For more information on Honeywell's SmartVFD COMPACT, call **1-800-466-3993** or visit buildingcontrols.honeywell.com

Automation and Control Solutions

Honeywell
1985 Douglas Drive North
Golden Valley, MN 55422-3992
1-800-468-1502
www.honeywell.com

63-9990 PR
January 2015
© 2015 Honeywell International Inc.



Follow us on Twitter:
@honeywellcpro



YouTube:
@honeywellcpro



Honeywell