



**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 — is 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 included, 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
 - Several fieldbus options available



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"

Programming At Your Fingertips

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

Standard API

Honeywell offers a set of APIs as standard, which are available from the shelf.

- API — Full
- API — Limited

API LIMITED

	TERMINAL	SIGNAL, DEFAULT SETTINGS
1	+10Vref	Reference voltage
2	AI1	Analog input 0-10V (0/4-20 mA)
3	GND	I/O ground
6	+24Volt	24V auxiliary voltage
7	GND	I/O ground
8	DIN1	Start forward
9	DIN2	Start reverse
10	DIN3	Fault reset
A	A	Serial bus (Modbus RTU)
B	B	Serial bus
21	RO11	Relay output, FAULT, NC
22	RO12	Relay output, FAULT, NC

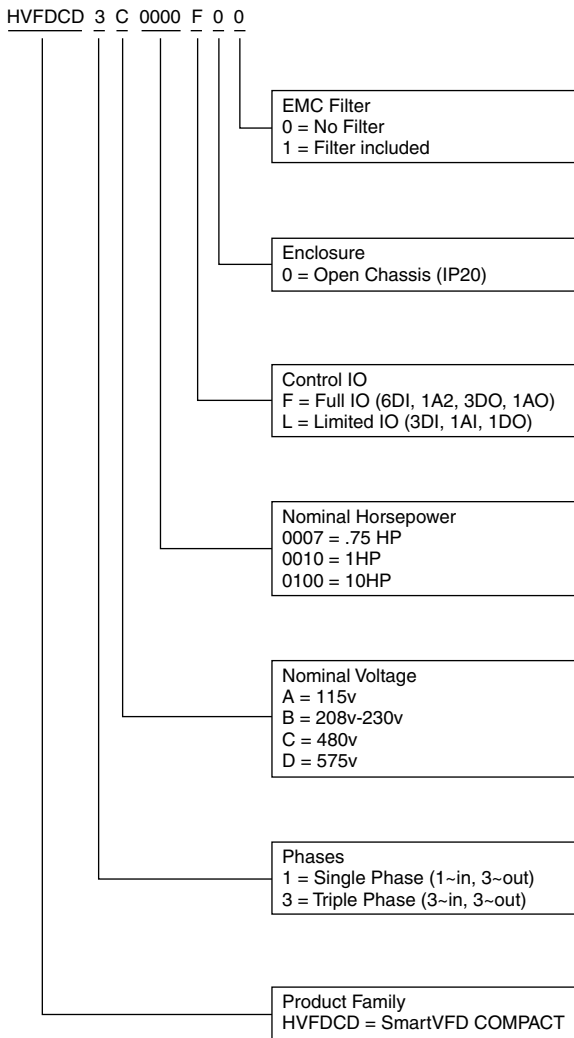
API FULL

	TERMINAL	SIGNAL, DEFAULT SETTINGS
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6	+24Volt	24 V auxiliary voltage
7	GND	I/O ground
8	DIN1	Start forward
9	DIN2	Start reverse
10	DIN3	Fault reset
A	A	Serial bus (Modbus RTU)
B	B	Serial bus
21	RO11	Relay output 1, FAULT, Change over
22	RO12	Relay output 1, FAULT, NC
4	A12	Analog input 0-10V
5	GND	I/O ground
13	GND	I/O ground
14	DIN4	Preset speed 1
15	DIN5	Preset speed 2
16	DIN6	Preset speed 3
18	AO	Analog output, output frequency
20	DO	Ready
25	RO21	Relay output 2, RUN, NO
26	RO22	Relay output 2, RUN, NO
23	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.



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	1.5 HP (3.3 A)	No	HVFDCD3C0015F00	HVFDCD3C0015L00
		EMC	HVFDCD3C0015F01	HVFDCD3C0015L01
	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	1 HP (3.7A)	No	HVFDCD1B0010F00	HVFDCD1B0010L00
		EMC	HVFDCD1B0010F01	HVFDCD1B0010L01
	1 HP (3.7A)	No	HVFDCD3B0003F00	HVFDCD3B0003L00
	0.5 HP (2.4 A)	No	HVFDCD3B0005F00	HVFDCD3B0005L00
	1 HP (3.7A)	No	HVFDCD3B0010F00	HVFDCD3B0010L00

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	2 HP (4.3 A)	No	HVFDCD3C0020F00	HVFDCD3C0020L00
		EMC	HVFDCD3C0020F01	HVFDCD3C0020L01
	3 HP (5.6 A)	No	HVFDCD3C0030F00	HVFDCD3C0030L00
208/230 1~in 3~out	1.5 HP (4.8 A)	No	HVFDCD1B0015F00	HVFDCD1B0015L00
		EMC	HVFDCD1B0015F01	HVFDCD1B0015L01
	2 HP (7 A)	No	HVFDCD1B0020F00	HVFDCD1B0020L00
208/230 3~in 3~out	2 HP (7 A)	No	HVFDCD3B0020F00	HVFDCD3B0020L00
		EMC	HVFDCD1B0020F01	HVFDCD1B0020L01
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
		EMC	HVFDCD3B0030F01	HVFDCD3B0030L01
115V/230V 1~in 3~out	1.5 HP (4.8 A)	No	HVFDCD1A0015F00	HVFDCD1A0015L00
		No	HVFDCD3D0010F00	HVFDCD3D0010L00
575V 3~in 3~out	2 HP (3.6 A)	No	HVFDCD3D0020F00	HVFDCD3D0020L00
		No	HVFDCD3D0030F00	HVFDCD3D0030L00
	3 HP (5 A)	No	HVFDCD3D0050F00	HVFDCD3D0050L00
		No	HVFDCD3D0075F00	HVFDCD3D0075L00

Learn More

For more information on Honeywell's SmartVFD COMPACT, visit beyondinnovation.honeywell.com

Automation and Control Solutions

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SmartVFD COMPACT Accessories	
Model Number	Description
HVFDCABLE	COMPACT VFD COMMISSIONING CABLE AND USB ADAPTOR
HVFDCDMCA	COMPACT VFD COMMISSIONING DEVICE
HVFDCDMCAKIT	COMPACT VFD COMMISSIONING KIT
HVFDCDNEMA1FR1	COMPACT VFD NEMA 1 KIT FRAME SIZE1
HVFDCDNEMA1FR2	COMPACT VFD NEMA 1 KIT FRAME SIZE2
HVFDCDNEMA1FR3	COMPACT VFD NEMA 1 KIT FRAME SIZE3
HVFDCDTRAINER	COMPACT VFD TRAINING DEMONSTRATION KIT

