



**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 compact VFDs, 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

Compact VFDs aren't overloaded with features you won't use. Nor are you limited to just a few. Instead, compact VFDs provide 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 compact VFD 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.

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"

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 compact VFD is built to save you time.

- Easy commissioning
 - Intuitive user interface
 - PID 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

Programming At Your Fingertips

The compact VFD 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

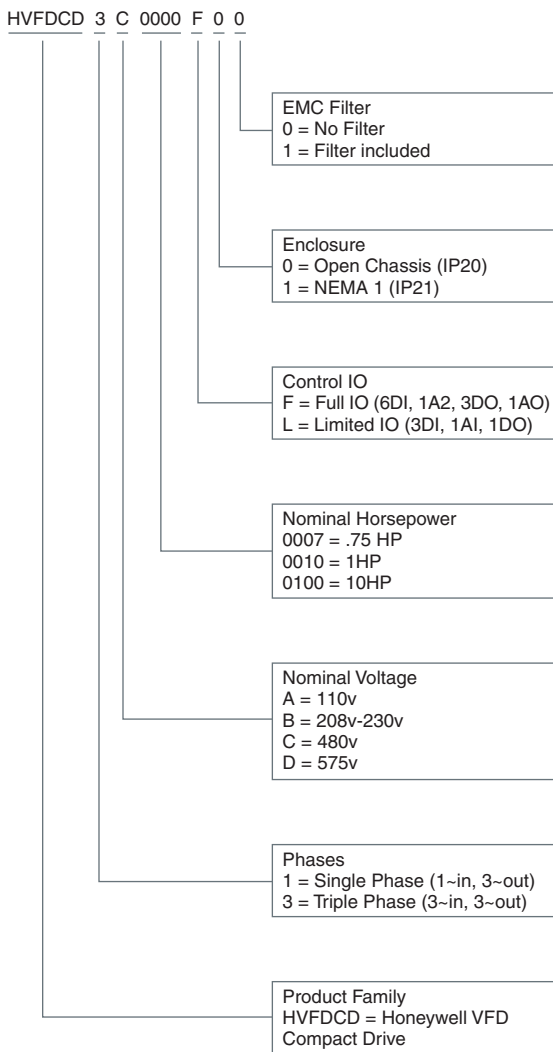
API FULL

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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

Honeywell compact VFD 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	Control I/O	Part Number	
460 3~in 3~out	0.5 HP (1.3 A)	No	Full	HVFDCD3C0005F00/U	
		Limited	Full	HVFDCD3C0005L00/U	
		EMC	Limited	HVFDCD3C0005F01/U	
		Limited	Full	HVFDCD3C0005L01/U	
	0.75 HP (1.9 A)	No	Full	HVFDCD3C0007F00/U	
		Limited	Full	HVFDCD3C0007L00/U	
		EMC	Limited	HVFDCD3C0007F01/U	
		Limited	Full	HVFDCD3C0007L01/U	
	1 HP (2.4 A)	No	Full	HVFDCD3C0010F00/U	
		Limited	Full	HVFDCD3C0010L00/U	
		EMC	Limited	HVFDCD3C0010F01/U	
		Limited	Full	HVFDCD3C0010L01/U	
1.5 HP (3.3 A)	No	Full	HVFDCD3C0015F00/U		
	Limited	Full	HVFDCD3C0015L00/U		
	EMC	Limited	HVFDCD3C0015F01/U		
	Limited	Full	HVFDCD3C0015L01/U		
208/230 1~in 3~out	0.25 HP (1.7 A)	No	Full	HVFDCD1B0003F00/U	
		Limited	Full	HVFDCD1B0003L00/U	
		EMC	Limited	HVFDCD1B0003F01/U	
		Limited	Full	HVFDCD1B0003L01/U	
	0.5 HP (2.4 A)	No	Full	HVFDCD1B0005F00/U	
		Limited	Full	HVFDCD1B0005L00/U	
		EMC	Limited	HVFDCD1B0005F01/U	
		Limited	Full	HVFDCD1B0005L01/U	
	0.75 HP (2.8 A)	No	Full	HVFDCD1B0007F00/U	
		Limited	Full	HVFDCD1B0007L00/U	
		EMC	Limited	HVFDCD1B0007F01/U	
		Limited	Full	HVFDCD1B0007L01/U	
1 HP (3.7A)	No	Full	HVFDCD1B0010F00/U		
	Limited	Full	HVFDCD1B0010L00/U		
	EMC	Limited	HVFDCD1B0010F01/U		
	Limited	Full	HVFDCD1B0010L01/U		
Frame Size: MI2		Dimensions: 7.7" H x 3.5" W x 4.0" D			
Nominal Voltage	Nom. HP (Nom. Current)	EMC Filter	Control I/O	Part Number	
460 3~in 3~out	2 HP (4.3 A)	No	Full	HVFDCD3C0020F00/U	
		Limited	Full	HVFDCD3C0020L00/U	
		EMC	Limited	HVFDCD3C0020F01/U	
	3 HP (5.6 A)	No	Full	HVFDCD3C0030F00/U	
		Limited	Full	HVFDCD3C0030L00/U	
		EMC	Limited	HVFDCD3C0030F01/U	
208/230 1~in 3~out	1.5 HP (4.8 A)	No	Full	HVFDCD1B0015F00/U	
		Limited	Full	HVFDCD1B0015L00/U	
		EMC	Limited	HVFDCD1B0015F01/U	
	2 HP (7 A)	No	Full	HVFDCD1B0020F00/U	
		Limited	Full	HVFDCD1B0020L00/U	
		EMC	Limited	HVFDCD1B0020F01/U	
Frame Size: MI3	460 3~in 3~out	4 HP (7.6 A)	No	Full	HVFDCD3C0040F00/U
			Limited	Full	HVFDCD3C0040L00/U
		EMC	Limited	Full	HVFDCD3C0040F01/U
			Limited	Full	HVFDCD3C0040L01/U
		5 HP (9 A)	No	Full	HVFDCD3C0050F00/U
			Limited	Full	HVFDCD3C0050L00/U
	EMC		Limited	HVFDCD3C0050F01/U	
	Limited		Full	HVFDCD3C0050L01/U	
	7.5 HP (12 A)	No	Full	HVFDCD3C0075F00/U	
		Limited	Full	HVFDCD3C0075L00/U	
		EMC	Limited	HVFDCD3C0075F01/U	
		Limited	Full	HVFDCD3C0075L01/U	
208/230 1~in 3~out	3 HP (11 A)	No	Full	HVFDCD1B0030F00/U	
		Limited	Full	HVFDCD1B0030L00/U	
EMC	Limited	Full	HVFDCD1B0030F01/U		
	Limited	Full	HVFDCD1B0030L01/U		

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