



## Danfoss Packaged Drive Solutions

### Vertical Bypass Panels for Industrial Pump & Fan Applications

Danfoss Industrial panels are known for their product quality and premium design standards. With this quality comes a wide array of choices among the standard base products. New to the Danfoss portfolio of drive panels is the Vertical Bypass configuration to insure you can have your Danfoss drive panel your way. This design includes market-preferred bypass controls from your preferred panel supplier, with maximum geometric flexibility to meet your strict installation constraints.

#### This panel is:

- Structured around our FC322 VLT Automation VT Drive.
- Same performance as our traditional panel with smaller footprint.
- Sleek vertical layout that requires less horizontal wall space.
- Same high quality components and design as our traditional panel.
- UL/CUL 508 listed and seismically certified.
- UL Type 1 / Nema 1 design.
- Non-bypass or 3 contactor bypass.
- Inherent phase loss/imbalance and brown-out protection to prevent product damage and downtime in adverse power quality installations.
- 24VDC control power for all but the largest sizes.

#### Options available include:

- 208V-240V from 7.5 to 60 HP, 460V and 600V from 15 to 125 HP.
- Fused Disconnect or Circuit Breaker Disconnect.
- Electronic or Electromechanical Bypass.
- 100KA SCCR.
- Embedded fieldbus communication protocols.
- Various fieldbus and I/O option cards.





## Inherent in the vertical bypass panels

The engine driving the Danfoss panel dependability is a 24VDC switch mode power supply that greatly improves performance and dependability beyond traditional CPT power designs.

The Danfoss panel power supply included on P2, P3, and P4 frame sizes provides steady, dependable control power, even when the input voltage drops more than 30%, virtually eliminating contactor malfunction due to brown-out conditions or phase loss. On P5 frame sizes, a voltage sensing relay provides similar protection.

Danfoss drives perform better because of their robust DC link reactor, standard in every FC322 VLT Automation VT Drive. This device offers comparable harmonic performance to AC input reactors without detrimental input voltage reductions, and without the extra heat that would typically be removed via additional fans or other devices.

Frame Size	Panel Power Sizes					Panel Dimensions in Inches					
	Bypass and Non-Bypass			Bypass	Non-Bypass	Bypass			Non-Bypass		
	208V & 230V	230V	460V & 600V	208V		Length	Width	Depth	Length	Width	Depth
<b>P2</b>	7.5 - 15 HP		15 - 25 HP			41.8	9.1	16	29.9	8.9	11.5
<b>P3</b>	20 HP	25HP	30 - 50 HP		25 HP	43.2	9.6	17.7	34.3	9.6	11.2
<b>P4</b>	30 - 40 HP		60 - 75 HP	25 HP		54.4	12.7	18	39.6	12.7	14.8
<b>P5</b>	50 - 60 HP		100 - 125 HP			59.6	15.1	18.0	45.8	15.1	14.8

[www.danfossdrives.com](http://www.danfossdrives.com)

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

### Danfoss VLT Drives

4401 N. Bell School Road  
Loves Park, IL, USA  
Phone: 1.800.432.6367  
1.815.639.8600  
FAX: 1.815.639.8002

### Danfoss VLT Drives

8800 W. Bradley Road  
Milwaukee, WI 53224, USA  
Phone: 1.800.621.8806  
1.414.355.8800  
FAX: 1.414.355.6117