worldwideelectric.com
(800) 808-2131

WorldDrive Flex Control Bypass Panel

Optimized motor control for commercial and industrial applications



WorldWide Electrics' Bypass Panels utilize the trusted WorldDrive Flex Control Variable Frequency Drive to precisely and efficiently control motors that drive equipment, such as pumps, fans, and blowers, in industrial, manufacturing, or commercial HVac applications. The integrated bypass allows an operator to switch to non-VFD control manually. Bypass operation provides dependable operation for applications that must remain in operation, giving dependability you can rely upon.

Ultimate Control - All operational parameters can be configured using the intuitive, built-in keypad. Operating and fault status is shown on the display. The WDFC offers three control modes: V/F, slip compensation, and sensorless vector control.

Manual Transfer to Bypass - The unit may be switched to bypass mode to continue operations. Bypass allows for the VFD to be repaired or replaced.

Power For Your Applications - The bypass panel is available in 1 - 25 hp at 230 Vac, or 1 - 75 hp at 460 Vac.

Built for Clean, Dry Environments - Electronics, terminals, and power components are IP20-rated/NEMA 1. The unit is UL, cUL Listed, and CE certified.

Features

- 2 Contactor bypass
- Hand/off/auto selectable
- Operation indicator
- Motor overload (OL) trip detection
- Fire mode
- Damper control
- BACnet, Metasys™N2, Modbus RTU
- Built-in PID loop control
- Built-in relay outputs (x5)
- 100 kA SCCR rated
- Removable enclosure back panel for ease of maintenance or quick replacement.

VFD Control Features

- Input Voltage AC: 230 Volts or 460 Volt models
- Output frequency: 0 - 400 Hz
- Carrier frequency: 1 - 15 kHz
- Starting current:
- 150% Overload for 60 seconds (CT)
- 120% Overload for 60 seconds (VT)

VFD Motor Control Modes

- V/F = Volts to frequency ratio for variable torque loads
- Slip compensation for constant torque loads
- Sensorless vector for enhanced torque and speed regulation

WORLDWIDE ELECTRIC CORPORATION

Responsive
Service & Technical Support

In Stock Availability
Warehouses Nationwide

Quality Products
Competitive Pricing

Fast Shipping
Same-Day Available

MORE INFO

Options

- Line isolation contactor (3rd Contactor)
- Ethernet IP & Modbus TCP/IP expansion card*
- LonWorks® expansion card*
- Expansion I/O card*

Design, Support & Installation

- 3 Compact sizes (H x W x D**)
- Size 1: 36.52” x 6.25” x 7.0”
- Size 3: 52.65” x 8.50” x 9.65”
- Size 5: 58.0” x 13.0” x 12.20”
- Easy wiring, Installation, and Maintenance
- Protection Degree: NEMA 1 / IP20
- UL, cUL Listed, and CE Certified.

hp (VT)	Bypass Max. Amps	Standard: 2 Contactor Unit	Optional: 3 Contactor Unit	Frame Size
230 Vac Model Options				
1	5	WDFCBP2005-2F	WDFCBP3005-2F	Size1
2	8	WDFCBP2008-2F	WDFCBP3008-2F	
3	12	WDFCBP2012-2F	WDFCBP3012-2F	
5	16	WDFCBP2016-2F	WDFCBP3016-2F	
7.5	22	WDFCBP2022-2F	WDFCBP3022-2F	Size 3
10	30	WDFCBP2030-2F	WDFCBP3030-2F	
15	42	WDFCBP2042-2F	WDFCBP3042-2F	
20	56	WDFCBP2056-2F	WDFCBP3056-2F	
25	69	WDFCBP2069-2F	WDFCBP3069-2F	
460 Vac Model Options				
1	3	WDFCBP2003-4F	WDFCBP3003-4F	Size 1
2	4	WDFCBP2004-4F	WDFCBP3004-4F	
3	6	WDFCBP2006-4F	WDFCBP3006-4F	
5	8	WDFCBP2008-4F	WDFCBP3008-4F	
7.5	12	WDFCBP2012-4F	WDFCBP3012-4F	
10	16	WDFCBP2016-4F	WDFCBP3016-4F	
15	24	WDFCBP2024-4F	WDFCBP3024-4F	Size 3
20	30	WDFCBP2030-4F	WDFCBP3030-4F	
25	38	WDFCBP2038-4F	WDFCBP3038-4F	
30	45	WDFCBP2045-4F	WDFCBP3045-4F	
40	61	WDFCBP2061-4F	WDFCBP3061-4F	
50	75	WDFCBP2075-4F	WDFCBP3075-4F	Size 5
60	91	WDFCBP2091-4F	WDFCBP3091-4F	
75	107	WDFCBP2107-4F	WDFCBP3107-4F	

* Only one card may be installed.
** Depth does not include the bypass handle.
** Consult the Product Catalog for complete specifications, power ratings and options.