

# WorldDrive FC

## Flexible Control Chassis Variable Frequency Drive



Built to provide ultimate control of your motor applications, the WorldDrive Flex Control (WDFC) Variable Frequency Drive (VFD) is suitable for a variety of applications from conveyors to pumps and almost everything in between.

- **Ultimate Control** - All operational parameters can be configured using the intuitive, built-in keypad and current status is shown clearly on the display. The unit offers three control modes: V/F, Slip Compensation and Sensorless Vector control.
- **Power For Your Applications** - We offer a full range of units, including 240 Vac 0.5-10 hp in single-phase, 240 Vac 1-25 hp in three-phase, or 480 Vac 0.5-650 hp in three-phase input.
- **Built for Clean, Dry Environments** - Electronics, terminals, and power components are IP20-rated and protected in an NEMA 1 polycarbonate enclosure. The WorldDrive FC is UL, cUL Listed and CE Certified.



### Quick Specs

- Capacity: 0.5-800\* HP, 200-240V / 380-480V AC
- Output Frequency: 0-400Hz, Sensorless: 0-120Hz
- Carrier Frequency: 1-15kHz
- Starting Current:
  - 150% Overload for 60 Seconds, CT
  - 120% Overload for 60 Seconds, VT



**Responsive**  
Service & Technical Support



**Quality Products**  
Competitive Pricing



**In Stock Availability**  
Warehouses Nationwide



**Fast Shipping**  
Same-Day Available

## Product Features

- V/F, Sensorless Vector Control, Slip Compensation
- 150% Overload for 60 Seconds, CT
- 120% Overload for 60 Seconds, VT
- 240V, Single-Phase, 0.5-10 HP
- 240V, Three-Phase, 1-25 HP VT / 0.5-20 HP CT
- 480V, Three-Phase, 1-800 HP VT / 0.5-650 HP CT
- Input voltage range:
  - 200-240V Single / Three-Phase (-15%, +10%)
  - 380-480V Three-Phase (-15%, +10%)
- Output Frequency: 0-400Hz; Sensorless: 0-120Hz
- Carrier Frequency: Normal Duty: 1-15kHz
- Protection Degree: NEMA 1 / IP20
- Conformal Coated Printed Circuit Boards
- Built-In Modbus-RTU
- Built-In PID Loop Control
- Real-Time Event Clock
- Higher Ratings Available for Single-Phase Input
- Multi-Motor Control and Multi-Master Control
- Available Accessories:
  - Flange Mount Kit
  - NEMA 1 Conduit Connection Box
  - Remote Cable with Keypad
  - NEMA 4X Keypad Mount
- UL, cUL, CE Certified

UL Three-Phase				UL Single-Phase Variable Torque Normal Duty			Additional Data		Model Number	Dimensions H x W x D (in)	Approx. Weight (lbs)
Constant Torque 150% Overload		Variable Torque 120% Overload		Single-Phase Input		Three-Phase Output	Built-In EMC Filter	Built-In DC Reactor			
HP	Amps	HP	Amps	HP	Amps	Amps					
<b>230 Volt</b>											
0.5	2.5	1	5	0.5	4.9	2.9	NO	NO	WDFC0008-2	9.1 x 6.3 x 7.1	8
1	5.0	2	8	1	8.4	4.4			WDFC0015-2	9.1 x 6.3 x 7.1	8
2	8.0	3	12	1.5	12.9	6.4			WDFC0022-2	9.1 x 6.3 x 7.1	8
3	11	5	16	2	17.5	8.4			WDFC0037-2	9.1 x 6.3 x 7.1	8
5	17	7.5	22	3	23.7	11			WDFC0055-2	9.1 x 6.3 x 7.1	8
7.5	24	10	30	5	32.7	16			WDFC0075-2	9.1 x 6.3 x 7.1	8
10	32	15	42	5	46.4	23			WDFC0110-2	9.1 x 6.3 x 7.1	8
15	46	20	56	7.5	62.3	30			WDFC0150-2	11.4 x 7.1 x 8.1	11
20	60	25	69	10	77.2	37			WDFC0185-2	13.8 x 8.7 x 8.8	16
<b>460 Volt</b>											
0.5	1.3	1	2.5	0.5	2.4	1.6	YES	NO	WDFC0008-4	9.1 x 6.3 x 7.1	8
1	2.5	2	4.0	1	4.2	2.4			WDFC0015-4	9.1 x 6.3 x 7.1	8
2	4.0	3	6.0	1.5	6.5	3.5			WDFC0022-4	9.1 x 6.3 x 7.1	8
3	5.5	5	8.0	2	8.7	4.6			WDFC0037-4	9.1 x 6.3 x 7.1	8
5	8.0	7.5	12	3	12.2	6.8			WDFC0055-4	9.1 x 6.3 x 7.1	8
7.5	12	10	16	5	17.5	9.2			WDFC0075-4	9.1 x 6.3 x 7.1	8
10	15	15	24	7.5	26.5	14			WDFC0110-4	9.1 x 6.3 x 7.1	8
15	22	20	30	10	33.4	17			WDFC0150-4	11.4 x 7.1 x 8.1	11
20	28	25	38	10	42.5	22			WDFC0185-4	11.4 x 7.1 x 8.1	11
25	35	30	45	15	50.7	26			WDFC0220-4	13.8 x 8.7 x 8.8	17
30	41	40	61	20	69.1	36			WDFC0300-4	13.8 x 8.7 x 8.8	17
40	55	50	75	25	69.3	39			WDFC0370-4	17.7 x 10.8 x 11.2	58
50	67	60	91	30	84.6	47			WDFC0450-4	20.1 x 12.8 x 11.2	95
60	81	75	107	40	100.1	55			WDFC0550-4	20.1 x 12.8 x 11.2	95
75	106	100	142	50	133.6	73	WDFC0750-4	21.7 x 12.8 x 12.2	95		
100	136	125	169	60	160.0	86	WDFC0900-4	21.7 x 12.8 x 12.2	95		
125	169	150 *	223	60	215.1	86	WDFC1100-4	27.8 x 11.8 x 15.2	123		
150	195	200 *	264	75	254.6	101	WDFC1320-4	27.8 x 11.8 x 15.2	123		
200	255	250 *	325	100	315.3	137	WDFC1600-4	27.8 x 15.0 x 15.6	165		
250	303	300 *	370	125	358.9	157	WDFC1850-4	27.8 x 15.0 x 15.6	165		
250	345	350 *	432	150	419.1	181	WDFC2200-4	36.3 x 17.3 x 17.3	265		
300	375	400 *	481	150	469.3	195	WDFC2500-4	36.3 x 17.3 x 17.3	265		
400	478	500 *	613	150	598.1	218	WDFC3150-4	39.4 x 23.6 x 19.7	409		
450	541	550 *	683	200	666.4	245	WDFC3550-4	39.4 x 23.6 x 19.7	409		
500	591	650 *	770	250	751.3	308	WDFC4000-4	39.4 x 23.6 x 19.7	409		
650	740	800 *	962	350	938.6	414	WDFC5000-4	41.5 x 30.6 x 19.7	585		

\* Variable Torque: 110% Overload  
 All WDFC drives can be used for single-phase input / three-phase output - please consult factory to size appropriately  
 Given weights and dimensions are approximate



WorldWide Electric Corporation is a leading manufacturer of electric motors, motor controls, gear reducers, and generators. Offering fast, often same-day, shipping from seven regional US warehouses, WorldWide Electric takes pride in providing a competitive edge to our customers by responding to their requirements with urgency, technical expertise, and professionalism.

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