



# WorldDrive Positive Displacement Pump Control Panel

Standard and Custom NEMA 3R Enclosed Solutions For Demanding Applications

The WorldDrive Positive Displacement (PD) Package is built for the demanding pumping applications, such as in oil & gas fields, salt water disposal, tough irrigation duties or controlling jet pumps.

- **Ultimate Control** - The WorldDrive Flex Control Variable Frequency Drive comes with PD application specific firmware, seven "Murphy Switch" inputs and optional I/O module for full skid protection and control, and all operational parameters can be configured using the intuitive, built-in keypad.
- **Power For Your Applications** - We offer a full range of units, including 240 Vac 0.5-10 hp in single-phase, 240 Vac 0.5-20 hp in three-phase, or 480 Vac 0.5-650 hp in three-phase input.
- **Control Options** - A full range of options are available, such as, door mounted keypad or pilot devices that are pre-installed and wired for ease of access.
- **Packed Solutions** - All WorldDrive PD packages are UL compliant, assembled, tested, and readied for operation prior to shipment



Featuring the World Drive Flex Control Variable Frequency Drive



## Quick Specs

- Enclosure: NEMA 3R with lockable door
- Capacity: 0.5 - 650 hp, three-phase
- Output Frequency: 0-400 Hz, Sensorless: 0-120 Hz
- Starting Current:
  - 150% Overload for 60 Seconds, CT

Full Product Features & Specifications Continued...



**Responsive**  
Service & Technical Support



**Quality Products**  
Competitive Pricing



**In Stock Availability**  
Warehouses Nationwide



**Fast Shipping**  
Same-Day Available

## Enclosure Features

- Hooded roof, direct spray and weather protection
- Heavy duty mounting and lifting ears
- Lockable control door cover for security
- Rodent screen protection
- 3% impedance line reactor
- NO/NC selectable "Murphy Switch" inputs (x7)
- Main circuit breaker with lockable disconnect
- Control panel transformer with CB protection
- Bottom to top ventilation (heat-shedding design)
- Thermostat-controlled, forced-air filtered fans, (positive pressure design)
- Full panel surge protection
- Galvanized back panel

## WorldDrive Flex Control Features

- V/F, Sensorless Vector Control, Slip Compensation
- 150% Overload for 60 seconds, CT
- 240 V, Single-phase, 0.5-10 hp
- 240 V, Three-phase, 0.5-20 hp CT
- 480 V, Three-phase, 0.5-650 hp CT
- Input voltage range:
  - 200-240 V Single / Three-Phase (-15%, +10%)
  - 380-480 V 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

## Model Number Selection\*

WCD	3R	C	PDA	107	B	4A	+	HIM3RU
Product Family	Enclosure	Circuit Breaker	Positive Displacement	VFD Rating (See Catalog)				Standard Options

\*Consult the Motor Controls Catalog for full range of specifications, power ratings and options.

Option Code	Option Description
A	EMI/RFI Filter
D2	RVSS Bypass
G2	Output Sinewave Filter
H	On-Off-Auto Selector Switch
I	Speed Potentiometer
J	Start/Stop Pushbuttons
J2	40mm ESTOP Pushbutton
K	Hand-Off-Auto Selector Switch
L	Surge Suppression
M	Installed SID1 Text Keypad
M3	WDFC LCD Keypad
M4	WDFC LCD Keypad with 4X cover
M7	Installed SID7 Operator Interface
N	Panel Space Heater, 150W
N2	Panel Space Heater, 50W
O	Green Run Pilot Light
P	Amber Fault Pilot Light and Reset Pushbutton
Q	White Drive Ready Pilot Light
R	Lockable, solid control door cover
R1	4X Clear HMI door cover 10"H x 8"W
S	Lockable, window control door cover
T	24/7 timer
U	1.3A, 24VDC Power Supply for Loop Power
X50	ROM1 Remote Operating Module
X55	WCD WDFC Ethernet IP or Ethernet TCPIP
X60	WCD WDFC Modbus to Ethernet IP Gateway
X65	Cellular based Netbiter
X66	Ethernet based Netbiter
X67	Ethernet/Cellular based Netbiter



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.

© Copyright 2023 WorldWide Electric Corporation

VFD-WCD3RCPDA-v03-24-23