



Motor Controls Line Card

Proven Control for Reliable Operations

No matter what industry - agriculture, construction, aggregate, material handling, oil and gas, irrigation, wastewater, food processing, or manufacturing - we know every moment of downtime reduces productivity and impacts the bottom line. That's why we still live by our founding customer-centric philosophy - providing quality products, a large selection of in-stock inventory, and fast shipping, all backed by exceptional customer support.

Contact:

Call:

Email:

Introducing the WorldDrive VFD Bypass Panel

Optimized motor control for commercial and industrial applications with built-in bypass for continuous operation.

WorldWide Electric's 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.

Built-In Features

- 2 Contactor Bypass
- HAND/OFF/AUTO selectable
- Operation Indicator
- Motor Overload (OL) Trip Detection
- Fire Mode
- Damper Control
- BACnet, Metasys™N2, Modbus RTU
- PID Loop Control
- Relay outputs (x5)
- 100 kA SCCR rated
- Electronics, terminals, and power components are IP20-rated/NEMA 1
- UL, cUL Listed, and CE Certified

Options

- Line Isolation Contactor (3rd Contactor)
- Ethernet IP & Modbus/TCP/IP
- Expansion IO card

Availability

- 1- 15 hp 3rd Quarter 2023
- Up to 75 hp 1st Quarter 2024



Featuring the World Drive Flex Control Variable Frequency Drive

Chassis Drives

WD4X Series

NEMA 4X VFD

Built to provide ultimate control of your motor applications and deliver superior performance in demanding conditions.

Voltage & HP Ranges

- 240 V Single-Phase 0.5 - 10 hp VT
- 240 V Three-Phase 1 - 20 hp CT
- 480 V Single-Phase 0.5 - 15 hp VT
- 480 V Three-Phase 0.5 - 30 hp CT

Overload Capacity

- 150% Overload for 60 seconds CT

Motor Control Modes

- Volts to frequency (V-Hz), slip compensation, sensorless vector control, and PM Sensorless Vector

Communications

- Modbus RTU
- Optional EtherNet/IP & Modbus/TCPIP

Protection

- NEMA 4X/IP66 Indoor



Lockable Disconnect

WDFC Series

Flexible Control VFD

Built to provide ultimate control of your motor applications, the WDFC is suitable for a variety of applications from conveyors to pumps and almost everything in between.

Voltage & HP Ranges

- 240 V Single-Phase 0.5 - 10 hp VT
- 240 V Three-Phase 1 - 25 hp VT
- 240 V Three-Phase 0.5 - 20 hp CT
- 480 V Single-Phase 0.5 - 350 hp VT
- 480 V Three-Phase 1 - 800 hp VT
- 480 V Three-Phase 0.5 - 650 hp CT

Overload Capacity

- 120% Overload for 60 seconds VT
- 150% Overload for 60 seconds CT

Motor Control Modes

- Volts to frequency (V-Hz), slip compensation, sensorless vector control, and PM Sensorless Vector

Communications

- Modbus RTU
- Metasys N2
- BACnet MS/TP
- Optional EtherNet/IP or Modbus/TCPIP

Protection

- NEMA 1/IP20 with Conduit Box Option (Plenum Rated)



WD N700E Series

Ultimate Control VFD

Superior performance and compact size — this product is ideal for driving fans, blowers, pumps, conveyors, production machines, rock crushers, mixers and grinders, either independently or tied to factory automation.

Voltage & HP Ranges

- 240 V Single-Phase 0.5 - 3 hp VT
- 240 V Three-Phase 10 - 125 hp VT
- 240 V Three-Phase 0.5 - 100 hp CT
- 480 V Three-Phase 0.5 - 550 hp VT

Overload Capacity

- 120% Overload for 60 seconds VT
- 150% Overload for 60 seconds CT

Motor Control Modes

- Volts to frequency (V-Hz) and Sensorless Vector

Communications

- Built-in Modbus RTU
- Optional Ethernet/IP & Modbus/TCPIP

Protection

- NEMA 1/IP20 with Conduit Box Option



WDG2 Series

General Purpose VFD

Incorporating enhanced functionality, integrated speed potentiometer, and optional remote keypad and communications cards, the NEW WorldDrive WDG2 is the right choice for most general-purpose applications.

Voltage & HP Ranges

- 230 V Three-Phase 0.75 - 30 hp VT
- 230 V Three-Phase 0.5 - 30 hp CT
- 460V Three-Phase 0.5 - 30 hp CT
- 460V Three-Phase 0.75 - 40 hp VT

Overload Capacity

- 120% Overload for 60 seconds VT
- 150% Overload for 60 seconds CT

Motor Control Modes

- Volts to frequency (V-Hz), slip compensation, and sensorless vector control

Communications

- Modbus RTU
- Optional EtherNet/IP or Modbus/TCPIP

Protection

- NEMA 1/IP20 with Conduit Box Option



Interface & Communication Cards

- EtherNet/IP
- Modbus TCP/IP
- Modbus RTU
- PROFINET
- PROFIBUS
- DeviceNet
- Netbiter EtherNet/Cellular



Please Note: Refer to our catalog for communication option availability for specific VFD and soft starters

Enclosed Drive Packages - WCD Series

Select One of **FOUR** Options

- 1** *A ready-to-ship, pre-built, NEMA 3R Panel with WDFC VFD.*
- 2** *A pre-configured panel from our four standard packages built to order with compressed lead times.*
- 3** *Any standard drive package and configure it to meet your exact application requirements.*
- 4** *Fully customize and configure a variable frequency drive or soft starter package to meet your exact application.*



NEMA 3R WCD Series Package

Standard Features with WDFC

- WDFC Flex Control VFD
- 2 - 800 hp

Standard Features with WD N700E

- WD N700E VFD
- 3 - 500 hp

Standard Features

- Hooded roof
- Heavy duty mounting ears and lifting strap
- 3% Input Reactors Standard

Standard Features For All Packages

- Filtered and forced-air cooled with thermostat
- Concealed hinges and lockable door latches
- Galvanized back panel
- UL489 Main Circuit Breaker, with lockable disconnect
- Control transformer with CB protection

Custom Solutions for Enclosed VFD

We have extensive design and fabrication experience and a deep understanding of industrial VFD applications. Expandable configurations include options for enclosures, operator controls, power supply, communications and I/O expansion. All WorldDrive panels and packages are UL-compliant, assembled to exacting standards, tested, and readied for operation prior to shipment.



NEMA 4 WCD Series Package

Standard Features with WDFC

- WDFC Flex Control VFD
- 2 - 100 hp CT
- 3 - 125 hp VT

Standard Features

- VFD keypad with NEMA 4 clear control door cover
- Heavy duty mounting ears and lifting strap



NEMA 12 WCD Series Package

Standard Features with WDFC

- WDFC Flex Control VFD
- 2 - 250 hp



LOOK INSIDE



Positive Displacement Pump Applications



Motor Soft Starter and Variable Frequency Drive Packages for demanding start-up, control and protection needed for PD applications, such as oil and gas, salt water disposal, irrigation, jet pump, etc.

WSPD Series

NEMA 4, with Soft Starter (WSIQ)

The control panel, "At Speed/Run Bypass" and pilot devices are door-mounted for ease of access, and all operational parameters can be configured using the intuitive, built-in keypad.

Reduced Heat Design - The "At Speed/Run bypass" takes over motor load control at full speed, which helps reduce panel heat.

Compact Footprint - Components, such as terminal blocks and the main circuit breaker are positioned for ease of service within a compact design.

- 230 V Three-Phase 10 - 60 hp
- 460 V Three-Phase 20 - 500 hp
- Enclosure: NEMA 4 with lockable door
- True three-phase starter
- Full motor overload protection
- Seven NO/NC selectable "Murphy Switch" inputs

WCD3RC-PDA Series

NEMA 3R, with VFD (WDFC)

The WorldDrive Flex Control Variable Frequency Drive comes with PD application-specific firmware, seven "Murphy Switch" inputs, and an optional I/O module for full skid protection and control, and all operational parameters can be configured using the intuitive, built-in keypad.

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.

- 230 V, Three-phase 0.5 - 22 hp CT
- 230 V, Three-phase 1 - 25 hp VT
- 460 V, Three-phase 3 - 650 hp CT
- 460 V, Three-phase 5 - 800 hp VT
- Enclosure: NEMA 3R with lockable door
- Seven NO/NC selectable "Murphy Switch" inputs



Includes the WorldStart iQ Soft Starter

Standard Features with Configurable Options



Includes the WorldDrive Flex Control VFD

Across-the-Line Motor Starters

WWSXL Series

General Purpose Starter

- Door mounted reset
- Field Installation Kits for local Start/Stop and Hand-Off-Auto Operation
- 24 Vac and 208 Vac Control Coil available
- Three-phase up to 25 hp, 230 V and up to 50 hp, 480 V
- Single phase up to 10 hp, 230 V
- NEMA 1 Enclosure



Siemens Combo Starters Starter with ESP200

- Pre-wired
- Short circuit protection
- Industrial-type disconnect handle
- 0.5 - 75 hp, 200 V
- 0.5 - 100 hp, 430 V
- 1 - 200 hp, 460 V
- 1 - 200 hp, 575 V
- NEMA 1, 12, 3/3R, 4/4X Enclosures



Siemens Class 14 Starter with ESP200

- N.O. Holding Contact
- Door mounted reset
- Field Installation Kits for local Start/Stop and Hand-Off-Auto Operation
- 0.17 (1/6) - 75 hp, 200 V
- 0.17 (1/6) - 100 hp, 430 V
- 0.33 - 200 hp, 460 V
- 0.5 - 200 hp, 575 V
- NEMA 1, 12, 4/4X Enclosures
- NEMA Starter Sizes 00 - 5



Siemens 3RE48

NEMA Rated Pump Controllers

- Pre-wired, Fusible disconnect and motor circuit protector
- High fault interrupting ratings up to 100kA at 600V
- NEMA Starter Sizes 1-4



WSE Series

Reduced Voltage

Cost-effective solution for equipment that start unloaded, such as pumps, fans, and motors.



Voltage & HP Ranges (525 V-Rated with Run-Rated Internal Bypass)

- 208 V Three-Phase 7.5 - 60 hp
- 230 V Three-Phase 10 - 75 hp
- 460 V Three-Phase 20 - 150 hp
- 575 V Three-Phase 30 - 200 hp

Overload Capacity

- 350% Overload for 30 seconds

Operation, Modes & Features

- Two-phase control of three-phase power
- Constant current and current ramp start, Voltage Ramp Soft Stop up to 20-seconds, coast-to-stop
- Optional Modbus TCP/IP or Ethernet/IP communication cards

WSIQ Series

Standard to Heavy Duty

True three-phase starter helps reduce wear and tear on your power transmission equipment, minimize energy costs, and improve your operations.



Voltage & HP Ranges (575 V-Rated with Run-Rated Internal Bypass)

- 208 V Three-Phase 5 - 150 hp SD
- 230 V Three-Phase 5 - 500 hp SD
- 460 V Three-Phase 10 - 900 hp SD
- 208 V Three-Phase 3 - 125 hp SD
- 230 V Three-Phase 3 - 350 hp HD
- 460 V Three-Phase 10 - 700 hp HD

Voltage & HP Ranges (690 V-Rated with Run-Rated Internal Bypass)

- 600 V Three-Phase 15 - 1100 hp SD
- 600 V Three-Phase 10 - 900 hp HD

Overload Capacity

- 350% Overload for 30 seconds SD
- 450% Overload for 30 seconds HD

Operation, Modes & Features

- Constant current and current ramp start, advanced adaptive control, starting/stopping, kickstart starting, coast-to-stop and ramp-to-stop, DC brake, Soft brake and Jog (forward/reverse)
- Optional communication cards

Siemens 3RW52

General Purpose Soft Starter

Adaptable to a wide variety of three-phase AC motor applications — eliminating add-on modules and auxiliary devices.



- 200 V Three-Phase 2 - 150 hp
- 230 V Three-Phase 3 - 200 hp
- 460 V Three-Phase 7.5 - 400 hp
- Soft torque, reduced mechanical loading, and optimum pump stop

Enclosed Soft Start Packages

WorldStart enclosed packages are pre-configured panel systems designed to provide single economical solutions. Each unit contains an enclosure, soft starter, operator controls, and ancillary components suitable for a variety of industrial and commercial applications.



WSES Efficient System

An enclosed solution for operating equipment with basic performance requirements.

- 7.5 - 200 hp
- NEMA 4 Enclosure with Padlock Disconnect
- Door mounted Start/Stop pushbuttons
- Optional remote operator keypad



WSSD Standard Duty

An economical system with advanced programming features and reliable components for many motor control applications.

- 230 V Three-Phase 10 - 150 hp
- 460 V Three-Phase 20 - 300 hp
- NEMA 4 Enclosure with Padlock Disconnect
- Optional door-mounted operator keypad



WSHD Heavy Duty

A robust package combines a circuit breaker disconnect, 120-Volt control, and complete door-mounted control devices.

- 230 V Three-Phase 10 - 60 hp
- 460 V Three-Phase 20 - 500 hp
- NEMA 4 Enclosure with Padlock Disconnect



WSNC Non-Combination

Designed for applications with an existing service disconnect already in place. It combines a soft starter and grounding bar.

- 230 V Three-Phase 10 - 200 hp
- 460 V Three-Phase 20 - 600 hp
- NEMA 4 Enclosure with Padlock Disconnect
- Programmable timer/schedules
- Optional door mounted operator controls





Ancillary Control

Worldwide Electric supports a wide range of applications with ancillary devices for basic to complex control. Brands include Siemens, Hubbell, and WorldWide Electric.

Contactors and Relays

- Current Transformers
- Hubbell Alternator Relays
- Hubbell Drum Controllers
- Hubbell Pressure Switches
- Siemens ESP200 Solid State Overload
- Siemens IEC Auxiliary Contact Blocks
- Siemens IEC Contactors
- Siemens IEC Thermal Overload Relays
- WDP Series Definite Purpose AC Contactors
- WorldWide Electric Pressure Switches

Pilot Devices

- 2 & 3 Position Push-Pull Mushroom Head Devices
- Indicator Lights
- Momentary Push Button, Non-Illuminated
- Push Button and Push-to-Test
- Selector Switches
- Siemens Class 52 Contact Blocks

Safety Switches

- Siemens VBII safety switches

**IN-STOCK
ACCESSORIES**



Service & Support | (800) 808-2131

WorldWide Electric is proud to offer a highly accessible Sales and Customer Service team, always ready to take your call. Each state has a dedicated Inside Sales Representative, Outside Sales Representative, and Customer Service Representative. You will have the benefit of speaking with the same team of highly seasoned, responsive representatives any time you call.

And what's more, each team is supported by dedicated Motor Controls and Integration Specialists. They will assist you with basic programming, troubleshooting, and emergency breakdown support during normal business hours. We also have 24x7 Emergency Breakdown Support.

Technical Support: (844) 993-7378

24x7



New for 2023

ROM 1

Remote Operating Module

Connects to your VFD or Soft Starter to help reduce time spent in the field checking up on your operations. View system statuses in real-time, auto-generate reports, and get notified of critical issues via email/text 24/7.



- Real-time monitoring with alerts
- Unlimited Technical Support
- 4G Cellular Connectivity
- Configurable Inputs and Outputs
- Three-year monitoring incl.
- Renewable plans available

Please Note: Specifications for all products shown depend on model and configuration selected