

Drive and Soft Starter Overview



Driving efficiency and sustainability



Class: DS101
Date: 12/2024



Automation Training

Drives and Soft Starters



Complete Solutions to Increase the Productivity and Reliability of Your Processes







Why WEG Motor Control Solutions?

- Easy to Select, Easy to Apply, and Easy to Maintain
 - Similar Parameter Set / Programming
 - “Matched” with WEG Motors
- Designed for Rugged Duty
 - Heavy Duty Ratings Standard
 - Conformal Coating on All Circuit Boards
 - Outdoor and Washdown Solutions
- Robust Pre and Post Sale Support Platform
 - Free 24 / 7 / 365 Phone Support
 - Free Set-up and Programming Software
 - 200+ Local Sales Resources
 - Direct and Third-Party WEG Authorized Commissioning and Service

Soft Starter Family



Advanced Technology for Controlling and Protecting Electric Motors

	SSW05 	SSW07 	SSW900 	SSW7000 		
Industries and Applications	Pumps Fans / Blowers Compressors	Pumps Screw Compressors Fans / Blowers Wood Chipper Veneer Lathe Saws Conveyors	Pumps Fans / Blowers Mixers Grinders Compressors Conveyors	Centrifuges Crushers Ball and Hammer Mills	Pumps Fans / Blowers Compressors	
Voltage and Ratings	208V to 480V 10A to 85A	220V to 575V 17A to 412A	220V to 575V 10A to 1400A	2,300V to 13,800V 70A to 600A		
Enclosure	IP20	IP20 / IP00 NEMA 4 (Enclosed GPH2)	IP20 / IP00 UL 3R / 4 / 12 (Enclosed APS9)	NEMA12 NEMA3R		
I/O and Interfaces	(2) Digital Inputs (2) Relay Outputs Remote Keypad	(3) Digital Inputs (2) Relay Outputs Remote Keypad	(5) Digital Inputs (1) Thermistor Input (3) Relay Outputs (1) Analog Output Remote Keypad	(6) Digital Inputs (2) Analog Inputs (3) Digital Outputs (2) Analog Outputs Remote Keypad		
Available Communications	RS232	RS232 RS485	Modbus TCP / IP RS485 (Modbus RTU) CANopen DeviceNet USB	Ethernet / IP Profibus DP ProfiNet IO Bluetooth	Modbus TCP / IP RS485 (Modbus) RS232 (Modbus) DeviceNet	Ethernet / IP Profibus DP USB

SSW05 Soft Starter



Low Cost and Easy to Apply

Common Features

- 300% rated current during 10 seconds, 4 starts per hour
- Controls and Monitors 2 of 3 Motor Phases
- Built-in by-pass contactor
- (2) Digital Inputs, (2) Relay Outputs
- RS-232 serial port for Remote Keypad connection
- Adjustable acceleration and deceleration ramps (1 - 20 seconds)
- Adjustable pedestal (starting) voltage (30 - 80% of line voltage)
- Protective features: Motor overload, over current and locked rotor, SCR overload, phase loss and phase sequence
- DIN Rail or Panel Mount
- 0 – 55 degrees Celsius (without derating), 3300ft altitude, 90% non-condensing humidity
- Conformal Coated Circuit Boards
- PC Programming and Monitoring via WEG SuperDrive Software

Range of Accessories

- Remote Keypad and Cables



SSW05

- 208 – 480V, 50/60Hz
- 3 – 85A



SSW07 Soft Starter



Full Featured General Purpose Solution

Common Features

- Standard (300%, 30s, 10 starts / hour) and Heavy Duty (450%, 30s, 4 starts / hour) Ratings
- Built-in run rated (AC1) By-pass contactor
- Easy operation, setup, maintenance & installation
- Simple setpoint programming through trim pots
- Operates in environments up to 55 degrees Celsius (without derating)
- Integral, electronic motor protection, built-in electronic thermal relay
- IP20 Enclosure (requires option kit for 130 – 200A), IP00 for ratings above 200A
- Conformal coated circuit boards
- PC Programming and Monitoring via WEG SuperDrive Software

Range of Accessories

- Remote Keypad and Cables
- RS232, RS485, and DeviceNet Communications Options
- Ventilation Kits frame 2 and 3
- IP20 Kits Frames 3 and 4
- PTC Type Thermistor Kit



SSW07

- 208 – 480V, 50/60Hz
- 17 – 412A



GPH2 Enclosed soft starter



Full Featured General Purpose Solution

Common Features

- Utilizes SSW07 Soft Starter with integrated AC1 by-pass
- Rated for 300% for 30 seconds, 450% available with derating
- NEMA 4 Enclosure Rating
- Wall-mounted enclosures for up to 125HP @ 230V, 250HP@480V
- Floor Mounted enclosure for up to 150 - 175HP @ 230V, 300 - 350HP @ 480V
- Circuit Breaker with Through Door Disconnect
- Control Power Transformer
- Start/Stop Pushbuttons
- Run/Fault Pilot Lights

Options

- AC3 By-pass Contactor with DOL Selector Switch
- Door Mounted Keypad



GPH2

- 230 and 480V, 50/60Hz
- 5 – 350HP



SSW900 soft starter



Advanced Motor Control and Protection

Common Features

- Standard (300%, 30s, 10 starts / hour) and Heavy Duty (450%, 30s, 4 starts / hour) Ratings
- Built in AC1 bypass contactors for all models
- Bluetooth enable Graphic Keypad with USB port
- Real Time Clock with Event Log and Copy Functions
- Multiple configurable Starting and Motor Control Modes
- Advance System and Motor Protection Features
- IP20 (Frame A, B – C, D with Kit), IP00 (Frames E – G)
- 90 - 250VAC Control Voltage
- Conformal Coated Circuit Boards
- Rated 55°C or 40°C (frame dependent)
- Built-in SoftPLC Ladder Logic Programming
- PC Programming and Monitoring WEG WPS software & Mobile App

Range of Accessories

- Remote Keypad and Cables
- RS-485 (Modbus RTU), CANopen, DeviceNet, Profibus DP, Ethernet/IP, Modbus TCP/IP, ProfiNet IO Communication Options
- Ventilation Kits frame B and C, IP20 Kits Frames C and D
- SSW06 Mounting Adapter Plates



SSW900

- 220 - 575V, 50/60Hz
- 10 – 1400A



APS9 Enclosed soft starter



Advanced Motor Control and Protection

Common Features

- Utilizes SSW900 Soft Starter with integrated AC1 by-pass
- 65KA SCCR, Circuit Breaker, Through-Door Rotary Handle
- Service Entrance Rated
- Application Rated – able to be used for Normal Duty (350% for 30s 1.00 SF) or Heavy Duty (450% for 30s. 1.15 SF) based on Selection
- UL 3R/4/12 Heavy Duty Enclosure
- Compact Solution, Frames 1, 2 and 3 Wall Mountable (Optional Floor Mounting Kits Available)
- Full HP rated AC3 emergency bypass contactor with Class-30 overload relay helps to start and run
- “Soft Starter-off-Bypass” selector switch mounted inside an enclosure
- Fused Multi-tap Control Power Transformer (208/230/460VAC - 120VAC).
- Terminals for customer remote Start/Stop, External Interlock, “Motor running”, and “System Fault” Dry Contacts
- Enclosure door mounted Bluetooth Enabled Graphical Keypad and Extensive Array of Operators and Pilot Lights

Range of Accessories

- Floor Mounting Kits



APS9

- 208 – 460V, 50/60Hz
- 5 – 700HP

SSW7000 Soft Starter



Rugged, Reliable, and Safe Medium Voltage Motor Control and Protection

Common Features

- 4,160V and 2,300V models IN STOCK (NEMA 12 & NEMA 3R) up to 3,000HP
- Available up to 13.8kVAC, 16,300HP
- Service Entrance Rated
- UL 347 Listed
- Emergency DOL Bypass Capability
- Motor protections active in both DOL & RUN modes eliminating the need for expensive motor protection relays for backup protection
- Pump control utilizes a specific algorithm for centrifugal pumps designed to minimize water hammer and pressure overshoots
- Ground Fault Monitoring (standard)
- Fast and Easy Start Up utilizing WEG Oriented Start Up Capability
- Built-in SoftPLC Ladder Logic Programming
- PC Programming and Monitoring via WEG SuperDrive Software (license-free)
- Same keypad & 'plug-in-play' expansion cards as CFW11

Options

- PT100 monitoring (8x channels)
- Range of Communication Options
- FLASH Memory Module



SSW7000





- 2,300 – 13,800V
- 70 – 600A



Variable Speed Drive Family



Complete Solutions to Increase Productivity and Reliability

	CFW100 	CFW320 	CFW501 	MW500 		
Industries and Applications	Food and Beverage Material Handling Fans and Centrifugal Pumps Sorting Conveyors Packaging Lines	Centrifugal Pumps Fans / Blowers Blenders / Mixers Centrifuges Compressors	Conveyors Roller Tables Granulators Dryers Rotary Filters	Centrifugal Pumps Fans / Blowers Cooling Towers Chillers and Compressors	Fans / Ventilators Blowers Conveyors Rollout Tables Mixers / Blenders	Commercial Dryers Agitators Outdoor Washdown / Food and Bev
Voltage and Ratings	120 or 240VAC 1-Phase Input 240VAC 3-Phase Output 1/4 - 1HP	120 or 240VAC 1-Phase and 240VAC or 460VAC 3-Phase Input 240VAC or 460VAC 3-Phase Output 1/4 - 10HP	240VAC or 480VAC 3-Phase Input and Output 1/3 - 25HP	240VAC 1-Phase and 480VAC 3-Phase Input 240 and 480VAC 3-Phase Output 0.5 - 10HP		
Enclosure	IP20	IP20	IP20 / NEMA 1 with Kit	IP66 / NEMA 4X		
I/O and Interfaces	Up to (8) Digital Inputs Up to (3) Relay Outputs Up to (1) Analog Input Up to (1) Analog Output Encoder Feedback Remote Keypad	Up to (8) Digital Inputs Up to (4) Relay Outputs Up to (2) Analog Input Up to (2) Analog Outputs Up to (3) Pulse Inputs and Outputs Encoder Feedback Remote Keypad	(4) Digital Inputs (2) Relay Outputs (1) Digital Output (2) Analog Inputs (1) Analog Output Remote Keypad	Up to (4) Digital Inputs Up to (1) Relay Outputs Up to (1) Analog Inputs Up to (1) Analog Outputs Encoder Feedback Remote Keypad Safety Features		
Available Communications	RS485 (Modbus RTU) CANopen DeviceNet USB InfraRed	Dual Port Ethernet IP or Modbus TCP Profibus DP CANopen	BACnet (RS485) DeviceNet Modbus RTU (RS232 / RS485) USB InfraRed	(2) RS485 Ports (Modbus RTU, BACnet, Metasys N2)	EtherNet IP ProfiNet IO Profibus DP Modbus TCP	Modbus RTU (RS232 / RS485) CANopen

Variable Speed Drive Family



Complete Solutions to Increase Productivity and Reliability





	CFW500		CFW11		CFW11M		CFW900					
Industries and Applications	Pumps Fans / Ventilators Blowers Conveyors Rollout Tables Washdown / Food and Bev		Pumps Fans/Blowers Conveyors Compressors Agitators Mixers Extruders		Feeders Centrifuges Cranes Hoists Rollout Tables Presses Saws		Pumps Fans / Blowers Conveyors Crushers Compressors Agitators and Mixers		Extruders Grizzly Feeders Centrifuges Cranes and Hoists Rollout Tables Presses Saws			
Voltage and Ratings	240VAC 1-Phase, 240, 480, and 575VAC 3-Phase Input 240, 480, and 575VAC 3-Phase Output 1/3 – 175HP		240VAC 1-Phase, 240, 480, and 575VAC 3-Phase Input 240, 480, and 575VAC 3-Phase Output 2 – 1,000HP		480, 575, or 690VAC 3-Phase Input and Output 500 – 2,500HP		240VAC 1-Phase, 240, and 480VAC 3-Phase Input 240, and 480VAC 3-Phase Output 1.5 – 200HP (Additional voltages and ratings available soon)					
Enclosure	IP20 / NEMA 1 with Kit, IP66 / NEMA 4X		NEMA 1, NEMA 12 / IP55 NEMA 12 / 3R (EDP11 Enclosed)		NEMA 12 Filtered		IP20 (NEMA 1 available with additional kit) Integrated RFI Filter					
I/O and Interfaces	Up to (8) Digital Inputs Up to (4) Relay Outputs Up to (4) Digital Outputs Up to (3) Analog Inputs Up to (2) Analog Outputs Encoder Feedback Remote Keypad Safety Features		Up to (8) Digital Inputs Up to (3) Relay Outputs Up to (2) Digital Outputs Up to (4) Analog Inputs Up to (4) Analog Outputs Encoder Feedback Remote Keypad, Safety Features		Up to (8) Digital Inputs Up to (3) Relay Outputs Up to (2) Digital Outputs Up to (4) Analog Inputs Up to (4) Analog Outputs Encoder Feedback Remote Keypad, Safety Features		Embedded Safety and WEG Digital Solutions Functionality Up to 7 I/O option motions can be installed providing an extensive array of potential I/O configurations Encoder Feedback Remote Keypad					
Available Communications	EtherNet IP ProfiNet IO Profibus DP Modbus TCP		Modbus RTU (RS232 / RS485) CANopen BACnet (RS485)		EtherNet IP EtherCAT ProfiNet IO Profibus DP Modbus TCP		Modbus RTU (RS232 / RS485) CANopen DeviceNet RS485 BACnet		Dual Ethernet Ports EtherCAT MQTT Protocol Bluetooth USB Port		Modbus-RTU / TCP IP CANopen DeviceNet Profibus-DP PROFINET IO	

Variable Speed Drive Family



Complete Solutions to Increase Productivity and Reliability

	 MVW3000		 MVW01	
Industries and Applications	Pumps Fans and Blowers Compressors Conveyors Mills		Pumps Gas Compressors Fans and Blowers Banbury Mixers Grinders and Chippers Winders Refiners	Forced and Induced Draft Fans Propulsion Thrusters Mills Centrifuges
Voltage and Ratings	1.5 – 13.8kVAC Up to 30,500HP		2.3 – 6.9kVAC 500 – 50,000HP	
Enclosure	NEMA 1 Filtered (Other Options Available)		NEMA 1 Filtered (Other Options Available)	
I/O and Interfaces	Up to (8) Digital Inputs Up to (5) Relay Outputs Up to (2) Digital Outputs Up to (4) Analog Inputs Up to (6) Analog Outputs Safety Features		Up to (8) Digital Inputs Up to (5) Relay Outputs Up to (2) Digital Outputs Up to (5) Analog Inputs Up to (8) Analog Outputs Encoder Feedback Safety Features	
Available Communications	Modbus RTU Ethernet IP Profinet IP	Profibus DP DeviceNet RS232 PTP	Modbus RTU Modbus TCP Ethernet IP	CANopen Profibus DP DeviceNet

CFW100 Variable Speed Drives



Compact Variable Speed Solution for OEMs



CFW100

- 120 or 240VAC 1-Phase Input, 240VAC 3-Phase Output
- 1/4 – 1HP

Common Features

- Compact Variable Speed Drive Solution, Zero Stacking, DIN Rail Mountable
- Rated for 150% Overload for 60 seconds
- 50 degrees Celsius with no derating
- Scalar (V/F) and Voltage Vector (VVW) Motor Control Options
- Up to (8) Digital Inputs, (3) Relay Outputs, (1) Analog Input, (1) Analog Output Depending on Options Selected
- Conformal Coated Circuit Boards
- Utilizes Common WEG Variable Speed Drives Parameter Set
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Range of Accessories

- USB, RS485 Modbus-RTU, CANopen, DeviceNet, and InfraRed Modules
- I/O Module Options - range of Input / Output Configurations
- Remote Keypad, Flash Memory, and Potentiometer Options



CFW320 Variable Speed Drives



High Performance and Compact OEM Solution



CFW320

- 120 or 240VAC 1-Phase and 240 or 480VAC 3-Phase Input
- 240 or 480VAC 3-Phase Output
- 1/4 – 10HP

Common Features

- Compact Variable Speed Drive Solution, Zero Stacking
- DIN Rail or Panel Mount
- Rated for 150% Overload for 60 seconds
- 50 degrees Celsius with no derating (480V Ratings are 40 degrees C)
- Scalar (V/F) and Voltage Vector (VVW) Motor Control Options
- (4) Digital Inputs, (1) Relay Output, (1) Analog Input Standard
- Conformal Coated Circuit Boards
- Integral Brake Chopper (Frame B only)
- Utilizes Common WEG Variable Speed Drives Parameter Set
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Range of Accessories

- Ethernet IP, Modbus TCP, USB, RS232 or RS485 Modbus-RTU, CANopen, DeviceNet, Profibus DP, BACnet, and InfraRed Modules
- I/O Module Options - range of Input / Output Configurations
- Pulse / Frequency Input and Option Options
- RFI Filters (1-Phase Ratings only)
- Remote Keypad, Flash Memory, and Potentiometer Options



CFW501 Variable Speed Drives



Variable Speed Drives for Buildings Applications



CFW501

- 240 or 480VAC 3-Phase
- 1/3 – 25HP

Common Features

- HVAC-R Application Specific Variable Frequency Drives
- Panel Mountable, IP20 Enclosure (NEMA 1 with Kit)
- UL94 / Plenum Rated with NEMA 1 Kit Installed
- Built-in RFI Filter
- Rated for 110% Overload for 60 seconds (Variable Torque)
- 50 degrees Celsius with no derating
- (4) Digital Inputs, (2) Relay Outputs, (1) Digital Output, (2) Analog Inputs, and (1) Analog Output
- Conformal Coated Circuit Boards
- Automatic Cooling Management maximizing Energy Efficiency
- Utilizes Common WEG Variable Speed Drives Parameter Set
- (2) RS485 Ports Standard (Modbus RTU, BACnet, Metasys N2)
- (2) PID Loops and Configuration Standard
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Range of Accessories

- NEMA 1 Conversion Kits
- Remote Keypad and Cables
- Flash Memory Module



MW500 Variable Speed Decentralized Drives



Variable Speed Drives for Decentralize Applications



MW500

- 240 or 480VAC 3-Phase
- 1 – 10HP

Common Features

- Decentralized Specific Variable Frequency Drives
- Wall mount or Motor Mount Options, IP66 / NEMA 4X Enclosure
- Available with or without a Built-In Switch-Disconnect
- Internal analog potentiometer
- Rated for 150% Overload for 60 seconds
- (4) Digital Inputs, (1) Relay Outputs, (1) Analog Inputs, and (1) Analog Output
- Conformal Coated Circuit Boards
- No external fan
- Utilizes Common WEG Variable Speed Drives Parameter Set
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Range of Accessories

- Remote Keypad and Cables
- Ethernet IP, Modbus TCP, RS232 or RS485 Modbus-RTU, CANopen, DeviceNet, and Profibus DP.
- Flash Memory Module
- Safety Functions (Safe Torque Off and Safe Stop 1)



CFW500 Variable Speed Drives



Comprehensive General Purpose VFD Solution



CFW500

- 240VAC 1-Phase, 240, 480, and 575VAC 3-Phase Input
- 240, 480, and 575VAC 3-Phase Output
- 1/3 – 175HP

Common Features

- Panel Mountable, IP20 Enclosure (NEMA 1 with Kit)
- Heavy Duty Rated for 150% Overload for 60 seconds
- Up to 50 degrees Celsius (derating required depending on frame)
- Automatic Cooling Management maximizing Energy Efficiency
- RS485 Port Standard (Modbus RTU or BACnet)
- Scalar (V/F) and Voltage Vector (VWV) Motor Control Options
- Adjustable Switching Frequency (up to 15 kHz with Derating)
- Extensive Range of Standard and Optional Inputs and Outputs
- Conformal Coated Circuit Boards
- Optional Integral Brake Chopper
- WEG Pump Genius (Simplex, Multiplex up to three Pumps)
- Utilizes Common WEG Variable Speed Drives Parameter Set
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Range of Accessories

- Complete Range of Communications Options
- I/O Module Options - range of Input / Output Configurations
- Safety Module for STO / Safe Stop SIL 3, PL e
- Remote Keypad, Cables, and Flash Memory Options
- NEMA 1 Kits and Cable Shield Clamp Kits



CFW500 Variable Speed Drives



Comprehensive General Purpose VFD Solution



CFW500 NEMA 4X

- 240VAC 1-Phase, 240, 480, and 575VAC 3-Phase Input
- 240, 480, and 575VAC 3-Phase Output
- 1/3 – 25HP

Common Features

- Same Features and Capabilities as IP20 CFW500
- Rated NEMA 4X, IP66
- Suitable for Washdown and Outdoor Installation in Full Sunlight
- 40 degrees Celsius, No Derating Required
- Available With or Without Integral Motor Disconnect
- Brake Chopper Included
- Conformal Coated Circuit Boards
- WEG Pump Genius (Simplex, Multiplex up to three Parallel Pumps)
- Utilizes Common WEG Variable Speed Drives Parameter Set
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Range of Accessories

- Complete Range of Communications Options
- I/O Module Options - range of Input / Output Configurations
- Safety Module for STO / Safe Stop SIL 3, PL e
- Remote Keypad, Cables, and Flash Memory Options



CFW11 Variable Speed Drives



Advance Process and Motor Control



CFW11

- 240VAC 1-Phase, 240, 480, and 575VAC 3-Phase Input
- 240, 480, and 575VAC 3-Phase Output
- 2 – 1,000HP

Common Features

- Panel Mountable NEMA 1 Enclosure
- Normal Duty (110% for 60 sec) and Heavy Duty (150% for 60 sec) Ratings
- Up to 50 degrees Celsius (derating required depending on frame)
- Intelligent Thermal Management maximizing Up-Time
- Dual DC Link Inductors Standard on All Ratings
- Scalar (V/F) and Voltage Vector (VFW) Motor Control Options
- Extensive Range of Standard and Optional Inputs and Outputs
- Conformal Coated Circuit Boards
- Optional Brake Chopper and Safety Features
- WEG Pump Genius Available (Simplex, Multiplex up to Five Parallel Pumps)
- Utilizes Common WEG Variable Speed Drives Parameter Set
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Range of Accessories

- Extensive Range of Communications Options
- I/O Module Options - range of Input / Output Configurations
- Temperature / Thermistor Interface Modules
- Remote Keypad, Cables, and Flash Memory Options
- Advance PLC Function Option Modules



CFW11 Variable Speed Drives



Advance Process and Motor Control



CFW11 NEMA 12 / IP55

- 240 and 480VAC 3-Phase Input
- 240 and 480VAC 3-Phase Output
- 2 – 175HP

Common Features

- Same Features and Capabilities as NEMA 1 CFW11
- Rated NEMA 12, IP55, Integral Lockable Motor Disconnect
- 40 degrees Celsius, No Derating Required
- Intelligent Thermal Management maximizing Up-Time
- Dual DC Link Inductors Standard on All Ratings
- Conformal Coated Circuit Boards
- Optional Integral Brake Chopper, Optional Safety Features
- WEG Pump Genius Available (Simplex, Multiplex up to three Parallel Pumps)
- Utilizes Common WEG Variable Speed Drives Parameter Set
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming with WEG WPS Software

Range of Accessories

- Extensive Range of Communications Options
- I/O Module Options - range of Input / Output Configurations
- Temperature / Thermistor Interface Modules
- Remote Keypad, Cables, and Flash Memory Options
- Advance PLC Function Option Modules



EDP11 Variable Speed Drives



Advance Process and Motor Control

Common Features

- Same Features and Capabilities as NEMA 1 CFW11
- Flanged Mounted CFW11, Efficient Heat Dissipation, reduced thermal impact on Control Circuits inside the Enclosure
- Circuit Breaker with Door Mounted Rotary Disconnect
- Rated NEMA 12 at 40 degrees Celsius, No Derating Required
- 120V Secondary Control Circuit Transformer
- With or Without AC3 Rated (3) Contactor Bypass
- Door Mounted Remote Keypad and Cover
- Start-Stop Push Buttons, Run and Fault Pilot Lights
- Conformal Coated Circuit Boards
- WEG Pump Genius Available (Simplex, Multiplex up to three Parallel Pumps)
- Utilizes Common WEG Variable Speed Drives Parameter Set
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Options

- AC3 Rated (3) Contactor Bypass
- NEMA 3R version which includes Space Heater, Lightning Arrestor, and is Service Entrance Rated
- Hand-Off-Auto Selector Switch, Speed Potentiometer



EDP11

- 240 or 480VAC 3-Phase Rated
- 2 – 1,000HP



CFW11M Variable Speed Drives



Advance Process and Motor Control



CFW11M

- 480, 575, and 690VAC, 3-Phase
- 500 – 2,500HP

Common Features

- Same Features and Capabilities as NEMA 1 CFW11
- 12-Pulse Configuration Standard
- Modular Design, Removable Inverter Modules Connected to a Single DC Bus
- Rated NEMA 12 Filtered Enclosure
- 40 degrees Celsius, No Derating Required
- Circuit Breaker with Through Door Disconnect
- Door Mounted Keypad, Operator Devices
- Conformal Coated Circuit Boards
- WEG Pump Genius Available (Simplex, Multiplex up to three Parallel Pumps)
- Utilizes Common WEG Variable Speed Drives Parameter Set
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming

Options

- 18 Pulse Versions Available
- NEMA 3R Enclosure Option



CFW900 Variable Speed Drives



Advance Process and Motor Control



CFW900

- 240VAC 1-Phase, 240 and 480VAC 3-Phase Input
- 240, and 480VAC 3-Phase Output
- 1.5 – 200HP
- More voltages and extended power range coming soon
- IP55 version planned

Common Features

- IP20 Enclosure Protection class (UL Type 1 with optional kit)
- Dual DC link inductors (no external reactor required)
- Conformal coating per Class 3C2 per IEC 60721-3-3
- Scalar, VVW (Voltage Vector WEG), Vector Control, VVW PM
- Smart Thermal Management adjusts to meet application requirements
- IoT - Ready with MQTT protocol, Motion Fleet Management enabled
- Up to 200M motor cable lengths without need for output filter
- Extensive I/O capability with up to 7 option expansion slots
- Bluetooth enabled Graphic Keypad, USB Port, Real-time clock, Oriented start-up, and online help
- RFI filter complies with EMC Directive 2004/108/EC
- Internal 24Vdc power supply (max. 800mA), ability to use external supply
- Dual Ethernet IP or Modbus TCP Ports and RS-485 (Modbus RTU)
- Integrated Safety functions meet SIL 3 and PLE / Category 4 requirements
- PID Controller and Configuration
- Built-in SoftPLC Ladder Logic Programming using WEG WPS Software

Range of Accessories

- Extensive range of I/O and Communication Options
- Remote keypad, mounting hardware, cables
- NEMA 1 and IP21 kits
- Encoder and Temperature Transducer Options



MVW3000 Variable Speed Drives



General Purpose Medium Voltage Drives



MVW3000

- Up to 13.8kVAC
- Up to 30,500HP

Common Features

- Voltage Source Inverter Design, Multi-level Cascaded H-Bridge Topology
- Input and Output Voltages 1.15 kV to 13.8 kV
- Output Ratings up to 1,140A, 30,500HP
- Near Sinusoidal Output Waveform
- Greater Than 95% Power Factor
- Fully Integrated Solution Including Input Disconnect, Fusing, and Multi-Pulse Transformer
- High-Efficiency Redundant Forced-Air Cooling
- Operation via User-Friendly 10" Door Mounted HMI Touch Screen
- Arc-Flash Detection System Standard
- Low Harmonic Design per IEEE 519, IEC 61800-3 and G5/4-1
- Easy to Maintain, All Power Components are Front-Accessible
- Power Cells Utilize Long-Life Plastic Film Capacitors

Options

- Extensive Range of Communications Options
- I/O Module Options - range of Input / Output Configurations
- Temperature / Thermistor Interface Modules
- Application Specific Software



MVW01 Variable Speed Drives



High Performance Variable Speed Drives



MVW01

- Up to 6.9kVAC
- Up to 50,000HP

Common Features

- Voltage Source Inverter Design, Neutral Point Clamp Topology
- Input and Output Voltages 2.3kV to 6.9kV
- Output Ratings up to 50,000HP
- Greater than 98.5% Efficiency, Power Factor Greater Than 95%
- Flexible Design Allowing Separate Mounting of System Components
- Forced-Air or Liquid Cooled Versions Available
- Operation via User-Friendly 10" Door Mounted HMI Touch Screen
- Multi-Pulse (up to 36) input rectifier
- Easy to Maintain, All Power Components are Front-Accessible
- Scaler, Closed-Loop Vector, and Sensorless Vector Control Options
- Arc-Flash Detection System Standard
- Long-Life Plastic Film Capacitors

Options

- Extensive Range of Communications Options
- I/O Module Options - range of Input / Output Configurations
- Temperature / Thermistor Interface Modules
- Application Specific Software



Pump Genius



Advanced Control for Pumping Applications



Pump Genius is a customizable feature of WEG Variable Speed Drives that enables them to become dedicated for pumping systems. It ensures accurate pressure / flow control throughout the processing cycle, starting with raw water and its usage, ending on wastewater treatment.

With an easy-to-use programming wizard, Pump Genius helps you to minimize downtime and maximize energy savings. Everything you need is selecting one of the three options that best fits to your application

Pump Genius Configurations

- Simplex – Single Pump / Drive System
- Multiplex – Multiple Pump / Multiple Drive System
- Multi-pump – Control Multiple Pumps with a Single Drive



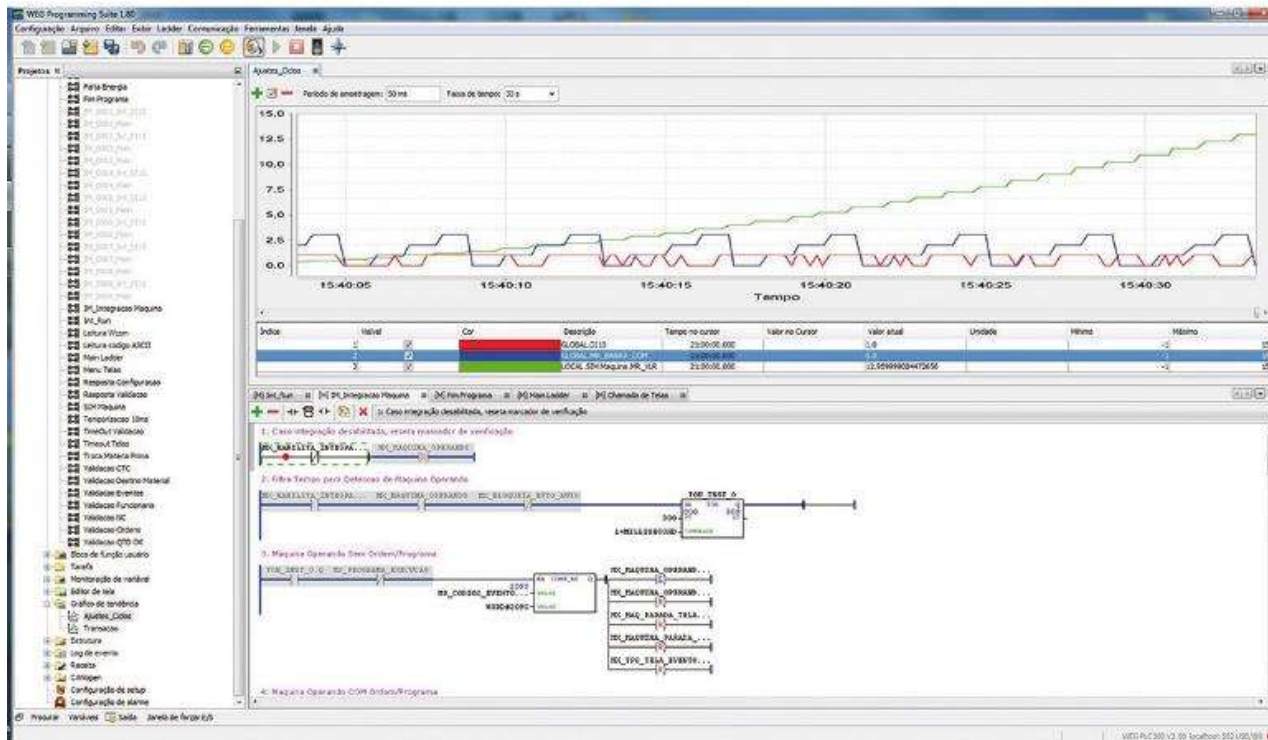
Software Tools



Programming and Monitoring Software from WEG

Capabilities and Features

- Program Parameters and SoftPLC Logic on WEG VFDs, Soft Starters, and Smart Relays
- Includes the capability to download and back up configurations
- Utilize software to update firmware
- Includes I/O and Parameter monitoring
- Able to trend multiple data values
- Software is available from WEG via free download



Sample screen shot of WEG WPS Software

Software Tools



Easy PLC Integration with Add-on Instructions

Overview

- Add-on instructions (AOIs) provide an easy way to integrate WEG Drives and Soft Starters into Automation Systems quickly.
- Initial release is for Rockwell Automation Studio 5000 Logix Designer®
- AOI Release Plans:
 - CFW900, CFW500, SSW900, CFW11- Available Now
 - CFW320, SSW7000, MVW01, MVW3000 – 2025 Release
- Possible future plans for CODESYS, Siemens S7, and Modicon integration solutions.



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Thank you for your
time and attention.



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