

AUTOMATIONDIRECT.com

NEMA 4X AC Drives



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NEMA 4X AC Drives

When you need a washdown rated AC drive without paying a high price.

AutomationDirect's IronHorse ACN, DURApulse GS20X and WEG CFW500 IP66 AC drives are feature-rich drives in a washdown rated enclosure.

AutomationDirect now offers two general purpose NEMA 4X VFDs in the DURApulse GS20X and IronHorse ACN series, as well as a high-performance NEMA 4X VFD in the WEG CFW500 series.

At AutomationDirect it is important to us that we provide high-quality products, at the best price possible and that we have them in stock and ready to ship to you. We also want to make sure that we provide a great selection of products as well as several choices when it comes to sizing and functionality.

In addition to getting a high-quality drive loaded with features in a NEMA 4X rated enclosure, you also get a lot more when you buy drives from AutomationDirect.



Why would I need an AC drive?

- Reduce start up current - controlling the inrush current at motor start-up allows the use of smaller fuses, and reduces electrical peak load
- Reduce mechanical stress - controlled/smooth starting and stopping minimize mechanical shock as well as wear and tear on the system
- Power Factor - Motors have very poor power factors (especially at light loading). Drives significantly increase power factor (even at light loading) and can eliminate the need for power factor correction capacitors and/or utility power factor charges
- Variable Speed and integrated functionality - AC drives can vary motor speed and direction by operator input (keypad buttons/speed control knob) or by digital and analog inputs (from pushbuttons/switches/pots or PLC outputs) or by communication from a PLC or master controller. Basic machine control can be performed in the drive on some models (limit switches/sensors can be wired to the drive's inputs to control motor speed or direction).

Not sure that this is the right AC Drive series you need?

Click for a complete selection guide

What are the benefits of a NEMA 4X rated enclosure?

The NEMA 4X environmental rating is given to enclosures and in this case, specifically drive enclosures that are washdown duty and built to withstand a harsh environment. Food and beverage processing and water treatment facilities (both indoors and outdoors) are examples of harsh environments where the equipment will be subject to repeated high-pressure washdowns daily. The NEMA 4X enclosure also allows you to mount the VFD directly to a machine and outside of an electrical panel. This can eliminate long runs of expensive VFD cable for motor wiring, reduce the need for external VFD output filters and in some cases simply provide a convenient, self-contained motor control at the machine or conveyor with an optional OSHA certified lock-out/tag-out disconnect.



Food and beverage processing, such as this bottling line are great applications to use NEMA 4X drive as they require regular washdowns



Water and wastewater applications can be indoors and outdoors so are exposed to wet environments and often direct sunlight

Why buy drives from us?

There are several distinct advantages to purchasing a drive from AutomationDirect:



Price

As with all of our product lines, our prices are often well below the list prices of traditional automation suppliers. Our direct business model allows us to operate more efficiently than other suppliers and pass the savings on to you.



Quality

All of the AC drives we sell have a 1 or 2-year warranty and a 30-day moneyback guarantee. If for any reason you are not satisfied with your purchase, send it back and we will refund your money.









Service

We give you options for self-service but at the same time, we are there when you need us. You can place your order online or call our customer service. Have a technical question about one of our products or need help gathering up a bill of materials for one of your projects?

You can call our Free Technical Support.



Select the Best NEMA 4X AC Drive for Your Application

NEMA 4X RATED AC DRIVES		
<div></div>	<div></div>	<div></div>
Washdown rated general purpose VFD built to handle harsh installations. Available in horsepower ratings up to 30 hp	Washdown rated general purpose VFD loaded with the same features as the GS20 but able to handle the toughest environments	Washdown rated version of the high-performance CFW500. IP66/NEMA 4X enclosure and horsepower ratings up to 20 hp
Input/Output Voltages hp Range	Input/Output Voltages hp Range	Input/Output Voltages hp Range
230VAC 1-phase/230VAC 1/6 - 10 hp	230VAC 1-phase/230VAC 0.5 - 3 hp	230VAC 1-phase/230VAC 0.25 - 3 hp
230VAC/230VAC 0.5 - 20 hp	230VAC/230VAC 0.5 - 7.5 hp	230VAC/230VAC 0.25 - 10 hp
460VAC 1-phase/460VAC 1/6 - 15 hp	460VAC/460VAC 0.5 - 10 hp	460VAC/460VAC 0.33 - 20 hp
460VAC/460VAC 0.5 - 30 hp	-	-
Supported Control Modes	Supported Control Modes	Supported Control Modes
V/F	V/F (1:50)	V/F
Sensorless Vector	Sensorless Vector (1:50)	Sensorless Vector
-	Field Oriented Control (FOC, 1:100)	Field Oriented Control
-	-	Closed-loop flux vector
Slip compensation	-	-
Torque control	Torque control	Torque control
Built-in I/O	Built-in I/O	Built-in I/O
5 digital inputs	7 digital inputs	4 digital inputs
1 digital output	2 digital outputs	1 digital output
1 relay output	1 relay output	1 relay output
2 analog inputs	2 analog inputs	1 isolated analog input
1 analog output	1 analog output	1 isolated analog output
Optional I/O	Optional I/O	Optional I/O
3 Digital inputs	-	8 digital inputs
2 Relay outputs	-	5 relay outputs
2 Analog inputs	-	3 analog inputs
1 Analog output	-	2 analog outputs
-	-	Encoder, 1 channel quadrature (400kHz)
Keypad	Keypad	Keypad
Non-removable keypad. Optional advanced keypad can be remotely mounted	Non-removable keypad. Optional advanced keypad can be remotely mounted	Non-removable keypad. Optional remote keypads. Basic and advanced remote keypad options
Communication Supported	Communication Supported	Communication Supported
Modbus RTU over RS485	Modbus RTU over RS485	Modbus RTU over RS485
Optional Communications	Optional Communications	Optional Communications
EtherNet/IP and Modbus TCP with option card	EtherNet/IP and Modbus TCP with option card	EtherNet/IP and Modbus TCP with option card
-	-	Serial RS485 and Bacnet
-	-	USB for programming connection
Safety Ratings	Safety Ratings	Safety Ratings
Safe Torque Off (STO) SIL2	Safe Torque Off (STO) SIL2	Safe Torque Off (STO) and Safe Stop 1 (SS1) SIL2 with optional CFW500-SFY2
Environmental Ratings	Environmental Ratings	Environmental Ratings
NEMA 4X/IP66 environmental rating	NEMA 4X/IP66 environmental rating	NEMA 4X/IP66 environmental rating
Additional Features	Additional Features	Additional Features
Built-in dynamic braking	Built-in dynamic braking	Built-in dynamic braking
Built-in function block sequence controller, 18 steps max	Built-in PLC 2k steps	Built-in PLC
PID control with sleep and wake	PID Control	PID control with sleep and wake
Free VFD Suite for configuration, programming and monitoring	Free GSoft2 for configuration and GSLogic for PLC programming	Free WPS programming software for drive configuration and monitoring as well as PLC programming

IronHorse® ACN Series NEMA 4X AC Drives

The ACN (with disconnect) and ACNND (without disconnect) series of NEMA 4X sensorless vector AC drives bridge the gap between a micro drive and high-performance VFD. The ACN series AC drives have features normally only found on more expensive drives but in a NEMA 4X enclosure and at a great price.

Internal cooling fans on all models. Additional external forced fans on larger frame sizes

Built-in keypad with display. Remote advanced keypad is optional.

Built-in disconnect

Built-in dynamic braking circuitry supporting 150% braking torque at a 5% duty cycle. No need for an external braking unit.

Safe Torque Off (STO) provides an additional level of safety EN 61508 SIL2

QR Code for remote access to product details (online)

Rugged NEMA 4X enclosure protects internal electronics from the elements as well as high-pressure washdowns.

Spacious power wiring terminals

Screw terminals for reliable wiring termination.

RJ45 connection for built-in Modbus RTU communications. (Optional Ethernet module for Modbus TCP and EtherNet/IP support)



	230V 1-ph	230V 3-ph	460V 1-ph	460V 3-ph
Frame 1 - HP	1/2	1/2, 1	1/2	1/2, 1
Frame 2 - HP	1, 1-1/2, 2	2, 3, 5	3/4, 1, 2	2, 3, 5
Frame 3 - HP	3, 5	7.5, 10	3, 5	7.5, 10
Frame 4 - HP	7.5	15	7.5, 10	15, 20
Frame 5 - HP	10	20	10, 15	25, 30
Part #s	ACN/ACNND-2	ACN/ACNND-2	ACN/ACNND-4	ACN/ACNND-4

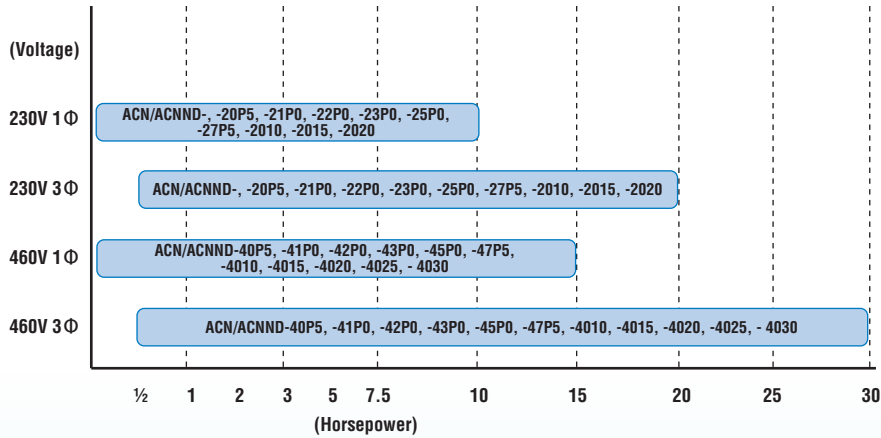
ACN(ND)-47P5

Motor HP: 0P5: 0.5hp, 1P0: 1.0hp, 2P0: 2.0hp, 3P0: 3.0hp, 5P0: 5.0hp, 7P5: 7.5hp, 010: 10hp, 015: 15hp, 020: 20hp, 025: 25hp, 030: 30hp

Input Volts: 2: 230VAC, 4: 460VAC,

Model Line: blank: With built-in disconnect, ND: no disconnect

Series Name: ACN_ = AC Drive NEMA 4X



Optional Keypad Accessories

In addition to the built-in keypad, the ACN series drives offer the ACN-LCD, an optional, advanced function display. This supports additional monitoring and status display on a single screen, plus simplified parameter navigation.

Option Cards

Option cards can be used to expand the available hardwired I/O on an ACN series drive or add Ethernet communications. The ACN-EIO adds 2 analog input channels, 1 analog output channel, 3 discrete input points and 2 relay output points. The ACN-ETH adds Ethernet communications support which allows the drive to communicate using EtherNet/IP or Modbus TCP protocols.



Not sure that this is the right AC Drive series you need? Click for a complete selection guide

Additional ACN Series Features

These are just some of the features for the ACN series drives. You will be hard-pressed to find a drive for the same price with all of the features it supports.

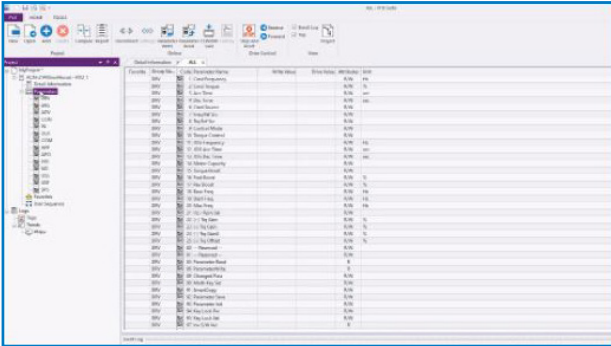
- Broad offering from 1/2 to 30 hp NEMA 4X
 - 230VAC: three-phase up to 20Hp, single phase up to 10hp
 - 460VAC: three-phase up to 30HP, single-phase up to 15hp
 - Single-phase UL Ratings – 230 or 460 VAC input
 - Supports several different control modes including V/Hz, slip compensation, sensorless vector and torque control
 - Can be used with AC induction motors or permanent magnet AC motors (PMAC)
 - Lockable, integrated disconnect or no disconnect models
 - Constant Torque (Heavy Duty) ratings only
 - Flexible carrier frequency to 15khz
 - Output frequency to 400Hz (120Hz sensorless vector)
 - STO – Safe Torque Off (SIL2)
 - Built-in user sequence programming of 18 steps
 - Built-in RJ45 port for fast & easy programming
 - Free downloadable software for drive configuration
 - Optional LCD text-based advanced keypad can be remotely mounted with IP66 case
- Local/Remote control mode selection or digital/comm input with Hand/Off/Auto control
 - Momentary power loss restarts
 - PCB conformal coating
 - 100kA Short Circuit Current Rating
 - DC Bus Connection Terminals
 - Analog I/O – configurable 2 Inputs and 1 output
 - 2-Motor Control
 - Built-in Dynamic Braking
 - PID Controller – including sleep and wake
 - Password protection
 - RTD and/or PTC input motor protection
 - High speed communication interfaces with MODBUS RTU built-in, with optional EtherNet/IP and Modbus TCP Communication Card
 - Fire Mode – Run fire mode during emergencies to have uninterrupted smoke removal and system pressure
 - 18-month warranty
 - CE, TÜV Nord, UL, cUL

ACN Series Programming

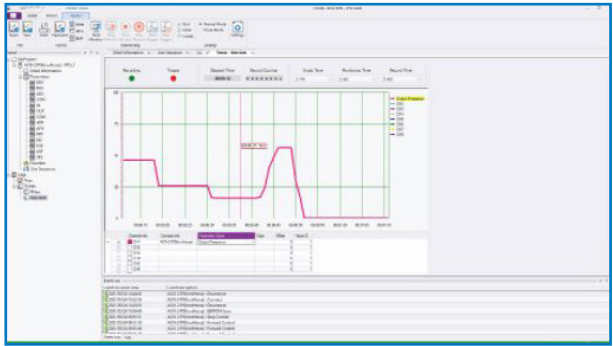
The ACN series VFDs support creating new drive configurations, upload/download new drive configurations, edit/compare drive configurations and more using VFD Suite (available as a free download). The software is also available on a USB card if needed. VFD Suite also includes the ACN manual for complete instructions and parameter explanations.



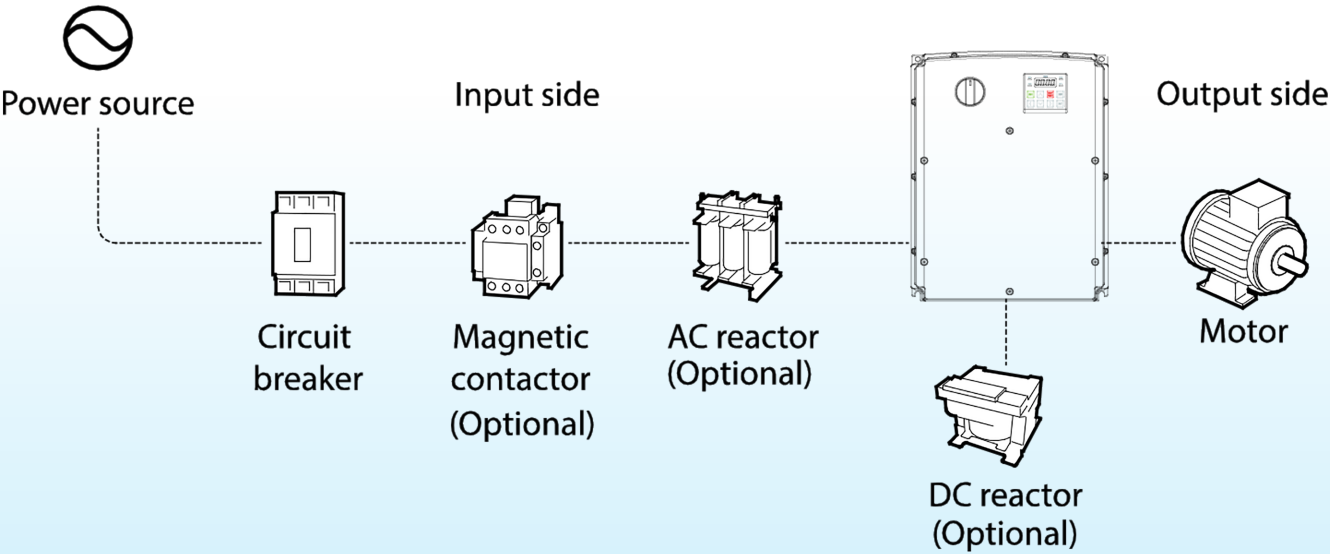
VFD Suite allows you to see everything there is to know about the connected drive



See all parameters available in the connected ACN series drive

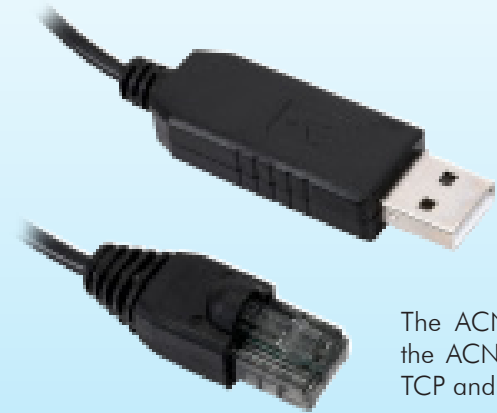


VFD Suite supports advanced functionality such as trending and programming of the built-in sequence controller



Additional Features of VFD Suite

- Utilize Parameter Wizard for easy configuration
- Archive/Store multiple drive configurations on your PC
- Trend drive operation parameters
- Tune the drive PID loop
- View real-time key operating parameters
- Start/Stop drive and switch directions, provided drive is set up for remote operation
- View drive faults
- Program Function blocks for simple control applications (18 steps maximum)



The ACN-232C allows for a quick and simple connection for programming the ACN series drives. Programming the drives is also supported over Modbus TCP and EtherNet/IP if an ACN-ETH is installed.

Not sure that this is the right AC Drive series you need?
Click for a complete selection guide



DURAPULSE® GS20X AC Drives

**DURA
III PULSE
GS20X**

EtherNet/IP™

DURAPULSE GS20X NEMA 4X AC Drives

The DURApulse GS20X series line of NEMA 4X sensorless vector AC drives delivers all of the features and performance of the GS20 drive* including PID, sensorless vector and field oriented control modes but adds a washdown rating up to 10hp. The GS20X comes in a NEMA 4X/IP66 enclosure to withstand the rigors of extreme environments. The GS20X also offers an optional NEMA 4X disconnect to make installation simple.



	230V 1-ph	230V 3-ph	460V 3-ph
Frame A - HP	½, 1, 2	½, 1, 2	½, 1, 2, 3
Frame B - HP	3	3, 5	5
Frame C - HP		7.5	7.5, 10
Part #s	GS21X	GS23X	GS23X

GS23(X)-47P5

Motor HP:

Input Volts:

Model Line:

Input Phase:

Series Name:

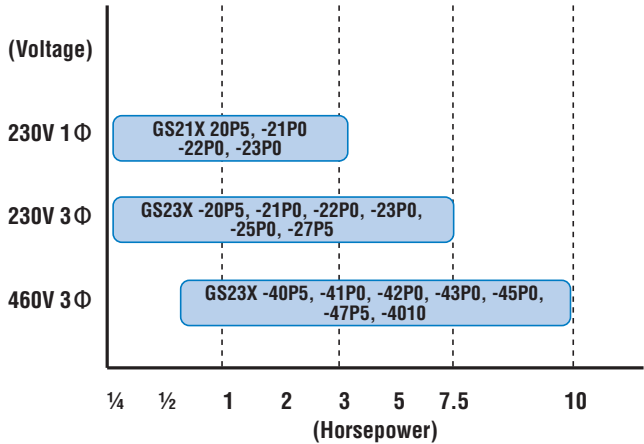
0P5: 0.5hp, 1P0: 1.0hp,
2P0: 2.0hp, 3P0: 3.0hp,
5P0: 5.0hp, 7P5: 7.5hp,
010: 10hp,

2: 230VAC,
4: 460VAC,

blank: Std GS20, X: NEMA 4X,
A: Accessory

1: single phase, 3: three phase

GS2_ = GS20

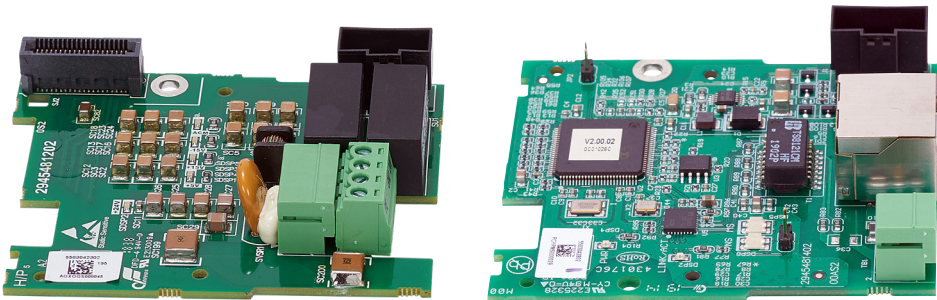


*GS2 mode not supported on GS20X models



Option Cards

Option cards are available for the GS20X to add features like Ethernet communications over Ethernet/IP and Modbus TCP or add a backup to the built-in 24VDC power supply.



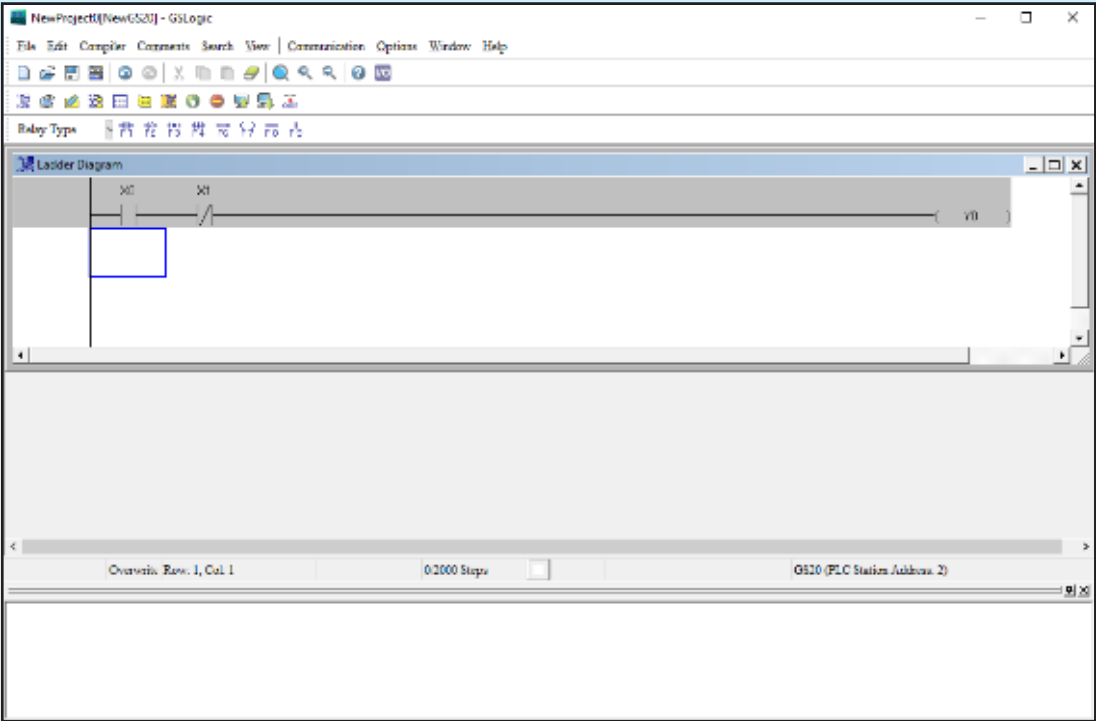
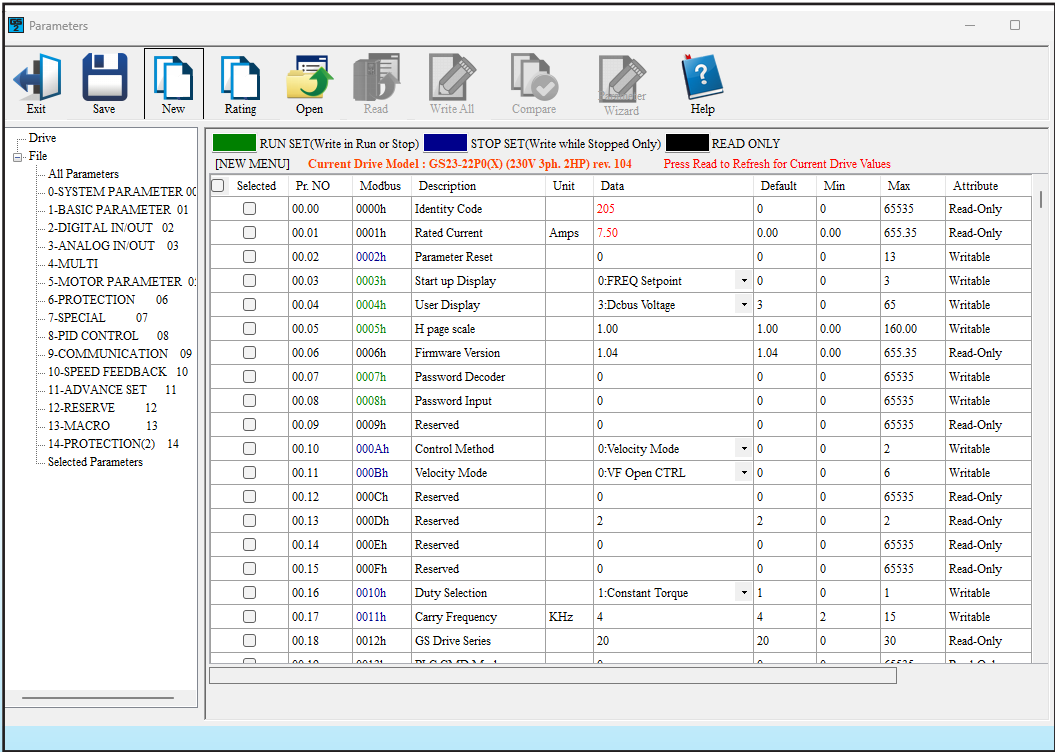
Not sure that this is the right AC Drive series you need?
Click for a complete selection guide

GS20X Programming

The GS20X VFDs support parameter configuration, setup and troubleshooting via the GSOF22 software. In addition to this, the GS20X has a built-in PLC that is programmed with GSLOGIC software.



GSOF22 – for parameter configuration, setup, troubleshooting & FW upgrade



GSLOGIC – for the built-in PLC ladder program

GS20X Control Modes

The GS20X supports three different control modes offering various levels of torque output control at different speed ranges. Also available is torque control mode that allows the drive to control the level of torque as opposed to speed. Torque control mode is a feature usually only found on higher cost drives.

		V/F Mode (+encoder)	Torque Control	SVC Mode	FOC Mode
Induction Motor (IM)	Torque	150% @ 3Hz	150%	150% @ 3Hz	200% @ 0.5Hz
	Accuracy	1:50 speed control	+/- 15%	1:50 speed control	1:100 speed control
Permanent Magnet (PM)	Torque	NA	150%+/- 15%	100% @ 1/20 rated Hz	NA
	Accuracy			1:20 speed control	

GS20X Additional Features

These are just some of the features that the GS20X has. You will be hard-pressed to find a drive for the same price with all of the features it supports. In addition to what was mentioned the GS20X also supports.

- V/Hz Control, Sensorless Vector Control, Field Oriented Control
 - Torque Control Mode
 - Maximum frequency 0-599Hz
 - Multiple motor support, supports up to 4 induction motor switching control from a single VFD
 - Built-in braking chopper
 - DEB, deceleration energy backup, controls motor deceleration during power loss
 - 100kA short circuit current rating
 - STO – Safe Torque Off
 - 100% Conformal coating (IEC 60721-3-3 class 3C2) on PCBs provides moisture, corrosion & dustproof in critical environments
- Built-in PLC (up to 2,000 steps)
 - USB programming
 - Built-in RS485 communications (Modbus RTU)
 - Optional Ethernet communications Modbus TCP and Ethernet/IP
 - Generous built-in I/O
 - Analog inputs +/- 10VDC, 0-10VDC, 0-20mA/4-20mA
 - 7 Digital inputs, 2 relay outputs
 - Pulse in/out 33KHz pulse input & output
 - Compact size
 - One-year warranty
 - UL, CE listed



GS Drive Accessories

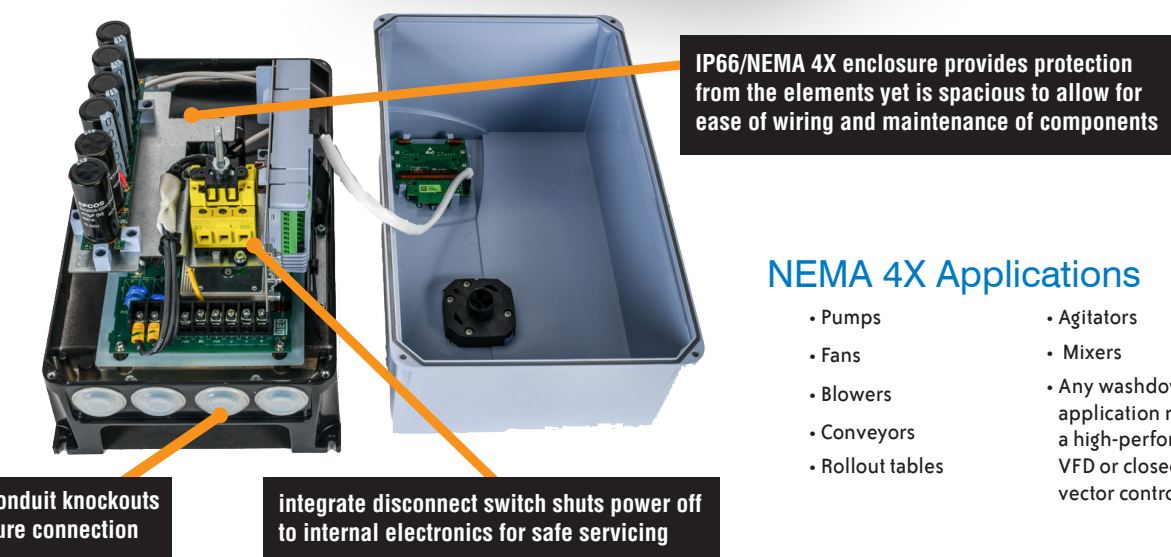
- Line reactors
- VTF output filters
- High speed Class J fuses and fuse holders
- Dynamic braking resistors and DBUs
- EMI and RFI filters
- Replacement cooling fans

Not sure that this is the right AC Drive series you need? Click for a complete selection guide

WEG CFW500 IP66/NEMA 4X AC Drives

The WEG CFW500 Wash series is a redesign of the most successful high performance CFW500 series product line. The CFW500 washdown version is one of the most compact and full-featured washdown drives on the market. One of the key "new" advantages of the redesigned CFW500 NEMA 4X is the outdoor rated keypad. (most keypads on NEMA 4X VFDs are NOT outdoor rated)

The new version with IP66/NEMA 4X protection rating increases the product robustness, ensuring protection against the ingress of dust and water jets from any direction, which allows its use and installation both indoors and outdoors.



NEMA 4X Applications

- Pumps
- Fans
- Blowers
- Conveyors
- Rollout tables
- Agitators
- Mixers
- Any washdown application requiring a high-performance VFD or closed-loop vector control



	230V 1-ph	230V 3-ph	460V 3-ph
Frame A - HP	1/4, 1/2, 1, 2, 3	1/4, 1/2, 1, 2, 3, 5	1/3, 1/2, 1, 2, 3, 5
Frame B - HP	1	7.5, 10	10, 15, 20

Optional Accessories



Embedded Safety Functions

Many optional modules are available to enhance the performance of the CFW500 VFDs. The CFW500-SFY2 is used to reduce risk and to guarantee the safety of personnel if there is a hazardous event due to a fault in operating machines. The embedded safety functions STO and SS1 provide machine builders a cost-effective solution to design protective measures and reduce the risk from unexpected and hazardous movement in industrial machines and processes.

- Safety functions integrated in the CFW500 drive, making it easier to comply with the machine and application safety requirements
- Fewer components, no need for additional wiring, saving space and installation costs
- Easier installation, commissioning and maintenance
- No electromechanical components, meaning faster responses and a higher degree of productivity
- Due to the high safety performance level SIL3, the CFW500 with Safety module may avoid the use of external safety relays for cables and emergency pushbuttons monitoring

CFW500(A/B)02P6B2DB66DSG2

Options:	DB: Dynamic Brake 66: NEMA4X/IP66 DS: With Disconnect Switch (Blank, no disconnect switch) G2: Generation-2
Supply Voltage:	2: 200-240VAC, 4: 380-480VAC
Supply Phases:	B: 1 or 3 Phase, T: Three Phase
Rated Current:	01P0: 1.0 Amps, 01P6: 1.6 Amps 02P6: 2.6 Amps, 04P3: 4.3 Amps 06P5: 6.5 Amps, 07P3: 7.3 Amps 10P0: 10 Amps, 14P0: 14.0 Amps 16P0: 16 Amps, 24P0: 24 Amps 28P0: 28 Amps, 31P0: 31 Amps
Frame:	A, B

Other Optional Modules

I/O plug-in modules such as the CFW500-IOS, CFW500-IOD, CFW500-IOAD, CFW500-IOR-B and CFW500-ENC allow for additional I/O to be expanded or a 2-channel quadrature encoder to be used with the VFD.

Communications modules such as the CFW500-CUSB, CFW500-CRS232 and CFW500-CRS485-B expand serial communication functionalities.

While ethernet communications modules such as the CFW500-CETH-IP and CFW500-CEMB-TCP allow the drive to communicate over the Ethernet protocols EtherNet/IP and Modbus TCP, respectively.

The advanced remote keypad HMI-01 is a text keypad and a basic, non-text keypad, the CFW500-HMIR is also available. As well as connection cables and a mounting frame for these optional keypads.

The CFW500-MMF flash memory module allows the download and upload of all VFD settings with the need to power the drive up or connect using the software.



Not sure that this is the right AC Drive series you need? Click for a complete selection guide

Additional CFW500 IP66/NEMA 4X Features

The IP66 models of the CFW500 line have the following features:

- Broad offering from 1/4 to 20 hp IP66/NEMA 4X
- 200-240V (single-phase/3-phase and 3-phase only models) and 380-480V input voltage
- 230VAC: three-phase up to 10Hp, single phase input up to 5hp
- 460VAC: three-phase up to 20HP
- NEMA 4X(IP66) Enclosure
- Available with and without disconnect switch
- Suitable for indoor and outdoor use (including direct sunlight)
- Heavy Duty rated - 150% current overload capacity
- Speed and torque control down to 0 (zero) rpm
- Precision of 0.01% for speed control
- Same programming as other WEG VFDs including CFW500-IP20, CFW300 and CFW100
- Built-in SoftPLC
- Scalar, Vector Control (Sensorless and closed-loop with encoder feedback) & VVW PM (suitable for fan, Pump and compressor)
- 0 to 500 Hz output frequency
- 2.5 to 15 kHz adjustable switching frequency (5 kHz standard)
- Built-in 24Vdc Power supply (max. 150 mA)
- Built-in RS-485 (Modbus RTU) communication
- Four isolated programmable digital inputs
- One programmable relay output (1NO, 1NC, 240vac 0.5A)
- One programmable transistor output
- One isolated programmable analog input (0-10V, 0/4-20mA)
- One isolated programmable analog output (0-10V, 0/4-20mA)
- Protective features: Over current (Phase-Phase short circuit in the output or phase-ground short circuit in the output), Under/overvoltage, overtemperature in heatsink, motor overload, IGBT overload and external fault
- Control features: Linear and “S” ramp acceleration and deceleration, local/remote control, DC braking, torque boost, motor slip compensation, electronic pot, preset speeds, adjustable V/Hz profile, maximum and minimum adjustable frequency limits, two skip frequencies, adjustable output current limit, JOG, ride-thru, flying start and PID regulator
- Same keypad with backlight as of CFW500 product line with Main display line, secondary display line and bar graph display
- Ambient: 14°F (-10°C) to 104°F (40°C), 3300ft (1000m) altitude, 5-95% humidity, non-condensing
- WPS compatible

Free WPS Programming Suite Software

That’s right! The WPS software is a free download. This is a fully featured software suite for drive configuration, monitoring AND for programming the built-in PLC – it’s all in one easy-to-use package.



Filter and download parameters by group, or use the powerful search function to create your own parameter groups

Quick Start

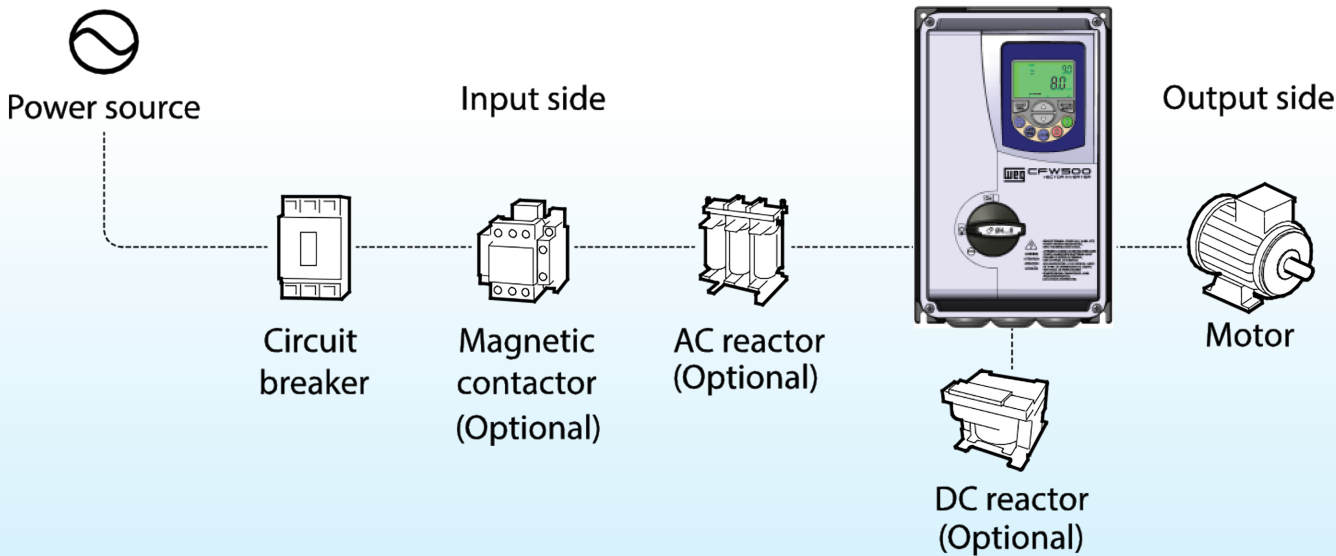
Welcome to WPS!

Welcome screen takes new users right to the most common activities

Changed parameters (awaiting download) are highlighted

Other great Quick Start features include:

- Monitoring Wizards
- Configuration Wizards
- Custom Monitoring Windows
- Trending
- Diagnostics
- And MORE!



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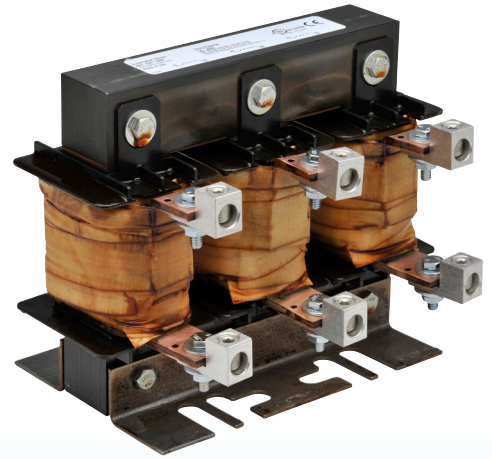
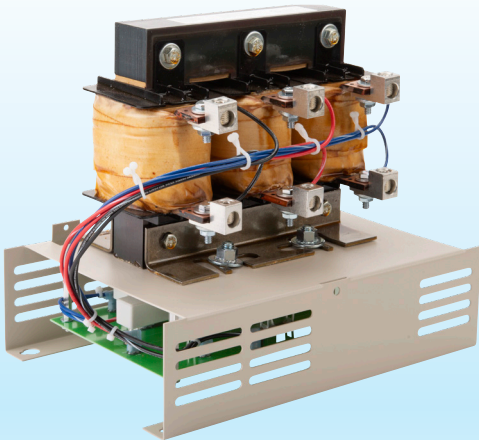
AC Drive Accessories

AC Line Reactors

Line reactors are an option to protect and optimize any AC drive and motor installation. Input line reactors provide many benefits to AC drives, including less nuisance tripping, reduced drive downtime, improved power factor, increased drive life, and sensitive equipment protection.

When used on the load side between the AC drive and the motor, reactors decrease voltage spikes between the motor and drive, increasing the reliability and longevity of both. Recommended for load-side applications with wiring lengths of 100 feet or less.

- Voltage support of 120 VAC and 230 VAC single-phase; 230, 460, and 575 VAC three-phase
- Sizes up to 361 Amps



VFD Output Filters

VTF series output (dV/dt) filters provide protection against harmful reflected waves between the VFD output and AC motor. These are recommended for any application when motor protection is critical or for any motor wiring distance from 100-1,000 feet. The filters ensure voltage spikes are limited to below 1,000 V.

Output filters also provide other benefits, such as reduced motor heating, increased motor bearing life, and reduced common mode current.

- Voltage support of 208-600 VAC
- Sizes up to 362 Amps
- NEMA1 versions available for mounting outside of the panel

GS Brake Resistors

Brake resistors are used to increase the braking torque of the AC drive, for frequently repeated ON-OFF cycles of the AC drive, or for decelerating a load with large inertia. Brake resistors are compatible with various AC drives (check specifications for selection).

- Available power ratings from 80 W to 9.6 kW
- Resistance ratings from 3.3 to 750 Ohms
- Available in encapsulated, panel mount, and in a NEMA 1 enclosure with temperature switch



CROHM Brake resistors

CROHM brake resistors are designed and manufactured in the USA with ISO 9001 certification. They can be used with any AC drive up to 600 V (check specifications for selection). These resistors come enclosed in a NEMA 1 enclosure and include a built-in temperature switch.

- Available power ratings from 240 W to 18 kW
- Resistance ratings from 3.7 to 400 Ohms
- Stainless steel bus bars
- Pre-wired terminal blocks
- CSA compliance to CSA 22.2 and UL 508 standard
- CE compliant

