

WEG Automation Catalog

Industrial Motors

Commercial & Appliance Motors

Automation & Systems

Energy

Transmission & Distribution

Coatings

LV Variable Frequency
Drives & Soft Starters



Register to
keep your
catalog
up-to-date



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Driving efficiency and sustainability



Table of Contents



GENERAL PURPOSE & MACHINERY DRIVE PRODUCTS

CFW100-G2 – Variable Frequency Drives: 1/4 - 1 HP

Overview	12
Catalog Number Sequence	13
Product Selection & Pricing	14
Options & Accessories	14
Technical Data	15

CFW320 – Variable Frequency Drives: 1/4 - 10 HP

Overview	16
Catalog Number Sequence	17
Product Selection & Pricing	18
Options & Accessories	19
Technical Data	21

CFW500-G2 Variable Frequency Drives: 1/3 - 175 HP

Overview	24
Catalog Number Sequence	25
Product Selection & Pricing – IP20 Drives	26
Product Selection & Pricing – IP66/N4X Washdown Drives	28
Options & Accessories	30
Technical Data	32
Dynamic Braking Resistors	34

PERFORMANCE DRIVE PRODUCTS

CFW11 Series – Frequency Inverter 1 1/2 - 1000 HP

Overview	38
Catalog Number Sequence	39
Drive Ratings	40
Product Selection & Pricing – NEMA 1 Drives	41
Product Selection & Pricing – NEMA 12/IP55 Drives	44
Options & Accessories	45
Technical Data	47
Dynamic Braking Resistors	48

CFW900 Series – Variable Frequency Drive: 1 1/2 - 650 HP

Overview	50
Catalog Number Sequence	51
Drive Ratings	52
Controls Connectors	53
Product Selection & Pricing	54
Options & Accessories	56
Technical Data	57
Dynamic Braking Resistors	61

CFW11M – Modular Drive: 450 - 2500 HP

Overview	64
Catalog Number Sequence	65
Product Selection	66
Dimensions	67

HVAC-R DRIVE PRODUCTS

CFW501 Series – Frequency Inverter: 1/3 - 25 HP

Overview	69
Catalog Number Sequence	70
Product Selection & Pricing	71
Options & Accessories	71
Technical Data	72



SPECIAL PURPOSE PRODUCTS

Pump Genius™

Overview	74
Pump Genius – Simplex (Single Pump Control)	76
Product Selection & Pricing (Single Drive Pump System)	77
Pump Genius – Multiplex (Multiple Pump System Control)	79
Product Selection & Pricing (Multiplex Pump System Control)	80
Pump Genius HMI – View Only (for CFW11-PGM Drives)	82
Pump Genius HMI with Integrated PLC	83



Line & Load Reactors

Overview	84
3% Line / Load Reactor – Open Type	85
3% Line / Load Reactor – Enclosed, UL Type 3R	86



SOLID STATE SOFT STARTER PRODUCTS

SSW05 Series – Reduced Voltage Soft Starter: 10 - 85 A

Overview	88
Catalog Number Sequence	89
Product Selection & Pricing	90
Options & Accessories	90
Technical Data	91



SSW07 – Reduced Voltage Soft Starter: 17 - 412 A

Overview	92
Catalog Number Sequence	93
Product Selection & Pricing	94
Options & Accessories	96
Technical Data	98



SSW900 – Reduced Voltage Soft Starter: 10 - 1400 A

Overview	100
Catalog Number Sequence	101
Product Selection & Pricing	102
Options & Accessories	105
Dimensions	108
Technical Data	109



SSW7000 Series – Medium Voltage Soft-Starter: 125 - 360 A

Overview	112
Catalog Number Sequence	113
Product Selection & Pricing	113
Options & Accessories	114
Dimensions	114
Special Features/Advantages	115
Technical Data	117



ENCLOSED DRIVE & SOFT STARTER PRODUCTS

EDP11 Series – Enclosed Drive Panels

Overview	118
Catalog Number Sequence.....	119
Product Selection & Pricing	120
Dimensions.....	128
Technical Data.....	134



GPH2 Series – Combination Soft-Starters

Overview	136
Catalog Number Sequence.....	137
Product Selection & Pricing	138
Dimensions.....	142



APS9 Series – All Purpose Soft Starter Panel

Overview	144
Catalog Number Sequence.....	145
Product Selection & Pricing	146
Accessories	140
Dimensions.....	141
Optional Accessories – Leg Kits.....	142



DIGITAL SOLUTION PRODUCTS

Motion Fleet Management

Overview	150
Product Selection & Pricing	152

WEG DRIVES REPLACEMENT GUIDE

CFW08-N1, CFW09, CFW10, CFW08 N4X/Wash Down, CFW700, CFW701 & SSW06 Replacement Guide

Choose model to replace old CFW08-N1, CFW09, CFW10, CFW08 N4X/Wash Down, CFW700, CFW701 or SSW06.	154
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Terminology Reference

Measurements / Symbols

A = Amps (amperes)
 cm = Centimeter
 ft = Feet
 HP = Horsepower
 hr = Hours
 Hz = Hertz
 I = Current
 I_e = Rated operational current
 in = Inches
 in-lb = Inch-pound
 I_s = Selectivity limit current
 I_{th} = Conventional free air thermal current
 I_{the} = Conventional enclosed thermal current
 IU = International Unit
 kA = Kiloampere (1 kA = 1000 A)
 kg = Kilogram
 kHz = Kilohertz (1 kHz = 1000 Hz)
 kV = Kilovolts (1 kV = 1000 V)
 kVAr = Kilovolt-amperes reactive
 kW = Kilowatt (1 kW = 1000 W)
 kΩ = Kilo-ohm (1 kΩ = 1000 Ω)
 lb = Pound
 Mbps = Megabits Per Second
 m = Meters
 mm = Millimeter
 m² = Square meter
 m³ = Cubic meter
 mA = Milliampere (1000 mA = 1 A)
 mg = Milligram
 mH = Millihenry (1000 mH = 1 H)
 MHz = Megahertz (1 MHz = 1,000,000 Hz)
 min. = Minutes
 ms = Milliseconds
 mV = Millivolts (1000 mV = 1 V)
 mW = Milliwatt (1000 mW = 1 W)
 MW = Megawatt (1 MW = 1,000,000 W)
 MΩ = Megaohm (1 MΩ = 1,000,000 Ω)
 sec. = Seconds
 U = Rated Voltage
 U_e = Operational Voltage
 U_i = Rated Insulation Voltage
 V = Volt
 V/Hz = Volts Per Hertz
 V/f = Volts Per Frequency
 VA = Volt-Amp
 W = Watt
 HP = Horsepower
 PH = Phase
 Ω = Ohm
 @ = At
 / = Per (or “and/or” depending on context)
 ≥ = Greater Than Or Equal To

Acronyms / Initialisms

AC = Alternating Current
 AUX = Auxiliary
 DC = Direct Current
 MAX = Maximum
 MIN = Minimum
 NC = Normally Closed
 NO = Normally Open
 O/P = Output Current
 OPS = Operations
 QTY = Quantity
 VAC = Alternating Current Voltage
 VDC = Direct Current Voltage
 AI = Analog Input
 AIS = Automatic Identification System
 AO = Analog Output
 DB = Database
 DI = Digital Input
 DO = Digital Output
 DOL = Direct On Line
 DP = Decentralized Peripherals
 DSP = Digital Signal Processors
 EMC = Electromagnetic Compatibility
 FTC = Flexible Torque Control
 G2 = Generation 2
 HD = Heavy Duty
 HMI = Human Machine Interface
 HOA = Hand-Off-Auto
 I/O = Input/Output
 IGBT = Insulated-Gate Bipolar Transistor
 IOT = Internet Of Things
 IP20 = Ingress Protection 20
 LV = Low Voltage
 MQTT = Message Queuing Telemetry Transport
 MV = Medium Voltage
 ND = Normal Duty
 NPN = Negative-Positive-Negative
 OEM = Original Equipment Manufacturer
 PID = Proportional-Integral-Derivative
 PLC = Programmable Logic Controller
 SoftPLC = Software Programmable Logic Controller
 PNP = Positive-Negative-Positive
 PROFIBUS = Process Field Bus
 PTC = Positive Temperature Coefficient
 PWM = Pulse Width Modulation
 RFI = Radio Frequency Interference
 RTD = Resistance Temperature Detector
 RTU = Remote Terminal Unit
 SCR = Semiconductor / Silicon-Controlled Rectifier
 SS1-T = Safe Stop 1 With Time Control
 STO = Safe Torque Off
 TCO = Total Cost Of Ownership
 V/Hz = Volts Per Hertz
 VAC = Volts Alternating Current
 VFD = Variable Frequency Drive
 VSD = Variable Speed Drive
 VVW = Voltage Vector WEG
 WPS = Wi-Fi Protected Setup

Warranty Policy for WEG Automation Products

Limited Warranty

WEG provides a limited warranty on our Variable Frequency Drives and Soft Starters, Power and Motor Control Products, and Custom and Standard enclosure solutions against defects in materials and workmanship for 12 months after installation, not to exceed 18 months from the invoice date, provided WEG is given notice of the defect within 60 days of failure, but in no event later than the expiration of the warranty period. The warranty shall not apply to Fuses and other components in which the useful life in normal use is shorter than the warranty period. If a product date code is within its stated warranty period, no proof of date of purchase is required. Otherwise, a copy of the invoice is necessary to show the date of the invoice. Purchases of WEG products from unauthorized dealers or distributors void warranty coverage. WEG's authorized dealers and distributors are listed on our website at www.wEG.net.

No-Fault Warranty Procedure

WEG LV Variable Speed Drives product families' CFWs, Soft Starters product families' SSWs, and Power and Motor Control Products (listed in chart, below) are covered under a "No-Fault" warranty procedure. This permits each covered product to be returned and replaced once if the customer believes it has a defect. You will need to submit the following within 60 days of failure to the WEG Automation Service Department to process a "No-Fault" warranty claim:

- Picture of the label with serial number information from the failed product
- Copy of the original WEG invoice or invoice number for the failed product
- Brief description of the failure for quality control purposes

LV Variable Speed Drives & Soft Starters

Product	Product Reference	Size / Frame	Rated Current	Power Voltage	Protection Degree
Variable Speed Drives	CFW08	-	All	-	-
	CFW100 G2	-	All	-	-
	CFW100	-	All	-	-
	CFW300	-	All	-	-
	CFW320	-	All	-	-
	CFW500 G1	A/B/C/D	-	200–240V	-
		A/B/C	-	380–480V	-
		D	-	380–480V	-
		C	-	500–600V	-
	CFW500 G2	A/B/C/D	-	200–240V	-
		A/B/C/D	-	380–480V	-
		C	-	500–600V	-
		-	≤ 24 A	200–240V	IP66
		-	≤ 16 A	380–480V	IP66
		A	-	200–240V	IP66
		A	-	380–480V	IP66
		-	≤ 07 A	500–600V	IP66
	CFW501	A/B/C/D	-	200–240V	-
		A/B/C	-	380–480V	-
	CFW11	-	≤ 16 A	200–240V	-
		-	≤ 13 A	380–480V	-
		-	≤ 10 A	200–240V	IP55
		-	≤ 5 A	380–480V	IP55
	CFW900	A	-	200–480V	-
Soft Starters	SSW05	-	All	-	-
	SSW07	-	≤ 85 A	220–575V	-
	SSW06	-	≤ 130 A	220–575V	-
		-	≤ 85 A	575–690V	-
	SSW900	-	≤ 61 A	220–575V	-

Power & Motor Control Products

Product	Product Reference	Covered Products
Circuit Breakers and Disconnects	DWB, UBW, UMBW, MSW, MSWB	Limited to \$100 value
Contactors, Motor Protectors, Relays	MPW, CWC, CWB, CWBN, CWBS, CWM, RW, RTW, RPW, RNW, SSW01	
Starters	ESW, PESW	
	ESWC, ESWE, ESWF, ESWX	
Operator Devices and Terminal Blocks	CSW, BTW	
Capacitors	UCWT, BCW	

Warranty Policy for WEG Automation Products

Optimal Match Warranty

WEG Optimal Match Warranty is a 36-month warranty when a WEG motor is applied with a WEG drive or soft starter. To qualify for this warranty, the products must be registered at <https://wegconnect.net/warranty-request/> and pre-approved by WEG's warranty department. This offer is only available in the U.S. The following products and combinations are eligible for the Optimal Match Warranty:

- Drives and motors that are eligible for this Optimal Match Warranty are W22 motors coupled with all "CFW" drives up to 720-ND.
- Soft starters and motors that are eligible for this Optimal Match Warranty are W22 motors coupled with all "SSW" soft starters up to 820 A.
- Medium voltage soft starters and motors that qualify for this Optimal Match Warranty are stock W22MV, W50MV, and W60MV motors coupled with SSW7000 stock soft starters.

When the drive or soft starter is invoiced on the same date as the motor, the Optimal Match Warranty will be eligible on the invoice date if the Optimal Match Warranty request is received within 180 days of purchase. When the drive or soft starter is invoiced on a different date than the motor, the following conditions apply to the Optimal Match Warranty eligibility:

- The Optimal Match Warranty will start on the first invoice date (drive, soft starter, or motor).
- The Optimal Match Warranty request must be received within 180 days from the date of the later product purchase.
- The invoice dates of both products cannot be more than 90 days apart.

Extended Warranty

WEG may, with prior written approval, provide an extended warranty to cover products beyond the standard warranty period:

- **Extended Warranty purchased with original product**
 - Available for a cost of 2.5% of the purchase price per year of coverage, up to a maximum coverage of four additional years. This coverage must be purchased at the time of the product purchase.
- **Extended Warranty purchased after the purchase of the original product**
 - Available for a cost of 2.5% of the purchase price per year of coverage, up to a maximum coverage of four additional years. A WEG service engineer must thoroughly inspect the equipment and bring the equipment up to expected standards of maintenance before the extended warranty starts. If, during the inspection, the service engineer determines that the equipment has been abused, mishandled, or misapplied, WEG may decline to extend the warranty as requested. Under such circumstances, the customer is still responsible for the service charges incurred for the inspection and maintenance.
- **Extended Warranty purchased with a certified Start-up**
 - Available for 18 additional months with the certified startup of low voltage variable speed drives and soft starters managed by the WEG Automation Service Department.



Warranty Information



Warranty Service

If a WEG product requires warranty service due to defective materials or workmanship, WEG shall repair or replace the product. Credit is not offered. Warranty service does not extend the warranty period. Warranty coverage is applied to products that have been, at all times, properly stored, maintained, operated, and used under operating conditions for which the product was designed. WEG is not responsible for any expenses incurred in installation, removal from service, transportation (freight), or consequential expenses. THE FOREGOING REMEDIES SHALL BE THE SOLE AND EXCLUSIVE REMEDY OF THE PURCHASER.

Authorized Service Centers

WEG has service centers around the world to meet the needs of our customers. Information regarding the nearest service center can be found on our web site at www.wEG.net/institutional/US/en/contact/service-network or by calling 1-800-ASK-4WEG (1-800-275-4934). Any warranty repair by a service center must be pre-approved by WEG. Service centers should not make repairs without being requested by a WEG Automation Service Department representative.

Disclaimer of Implied Warranties

THE FOREGOING WARRANTIES ARE EXCLUSIVE, AND IN LIEU OF ALL OTHER WARRANTIES OF EVERY KIND, WHETHER WRITTEN, ORAL, OR IMPLIED. WEG EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AGAINST INFRINGEMENT, OR ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

Limitation of Liability

IN NO EVENT SHALL WEG BE LIABLE FOR ANY LOST PROFITS, LOST REVENUE, LOST BUSINESS OPPORTUNITIES, OR LOST USE OR PRODUCTION OR PRODUCTIVITY, WHETHER CHARACTERIZED AS DIRECT OR CONSEQUENTIAL, INDIRECT, SPECIAL, INCIDENTAL, OR OTHERWISE. WEG SHALL NOT BE LIABLE FOR ANY OTHER CONSEQUENTIAL, INDIRECT, SPECIAL, INCIDENTAL OR PUNITIVE DAMAGES, WHETHER SIMILAR TO OR DISSIMILAR TO THE DAMAGES REFERENCED ABOVE, WHETHER SUCH LIABILITY IS BASED OR CLAIMED TO BE BASED UPON ANY NEGLIGENCE OR OTHER ACT OR OMISSION, BREACH OF CONTRACT, BREACH OF DUTY (STATUTORY OR OTHERWISE) OR DEFAULT WHATSOEVER, AND WHETHER OR NOT SUCH DAMAGES ARE FORESEEABLE, AND WHETHER OR NOT THE PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOTWITHSTANDING ANY PROVISION TO THE CONTRARY, WEG'S TOTAL LIABILITY FOR ALL CLAIMS OF ANY KIND, WHETHER BASED UPON CONTRACT, TORT (EXCEPT GROSS NEGLIGENCE OR INTENTIONALLY WRONGFUL ACTS), OR OTHERWISE, FOR ANY LOSS OR DAMAGE ARISING OUT OF, CONNECTED WITH, OR RESULTING FROM THE PERFORMANCE OR USE OF A PRODUCT SHALL IN NO EVENT EXCEED 100% OF THE PURCHASE PRICE ALLOCABLE TO THE PRODUCT WHICH GIVES RISE TO THE CLAIM.

WEG USA General Terms and Conditions available at www.wEG.net apply to all orders.

Contact WEG Automation Service Department: Toll-Free: 1-877-934-3748 E-Mail: automationtech@weg.net



INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM



WEG Drives & Soft Starters Quick Selection Guide

HP	RPM	Frame	Voltage	Soft Starter Enclosure Rating: IP00 / IP20		Variable Frequency Drive Enclosure Rating: IP20	
				Motor Wired for 230V	Motor Wired for 460V	Motor Wired for 230V	Motor Wired for 460V
0.25	3600	56	208-230/460	-	-	CFW100A01P6S220G2	CFW500A01P0T4NB20G2
	1800	56	208-230/460	-	-	CFW100A01P6S220G2	CFW500A01P0T4NB20G2
0.33	3600	56	208-230/460	-	-	CFW100A01P6S220G2	CFW500A01P0T4NB20G2
	1800	56	208-230/460	-	-	CFW100A01P6S220G2	CFW500A01P0T4NB20G2
0.5	3600	56	208-230/460	-	-	CFW100B02P6S220G2	CFW500A01P6T4NB20G2
	1800	56	208-230/460	-	-	CFW100B02P6S220G2	CFW500A01P6T4NB20G2
	1200	56	208-230/460	-	-	CFW100B02P6S220G2	CFW500A01P6T4NB20G2
0.75	3600	56	208-230/460	-	-	CFW100C04P2S220G2	CFW500A01P6T4NB20G2
	1800	56	208-230/460	-	-	CFW100C04P2S220G2	CFW500A01P6T4NB20G2
	1200	56	208-230/460	-	-	CFW100C04P2S220G2	CFW500A01P6T4NB20G2
1	3600	56	208-230/460	-	-	CFW100C04P2S220G2	CFW500A02P6T4NB20G2
	1800	56	208-230/460	-	-	CFW100C04P2S220G2	CFW500A02P6T4NB20G2
	1800	143T	208-230/460	-	-	CFW100C04P2S220G2	CFW500A02P6T4NB20G2
	1200	56	208-230/460	-	-	CFW100C04P2S220G2	CFW500A02P6T4NB20G2
	1200	145T	208-230/460	-	-	CFW100C04P2S220G2	CFW500A02P6T4NB20G2
1.5	3600	143T	208-230/460	SSW050010T2246TPZ	-	CFW300A06P0T2NB20	CFW500A04P3T4NB20G2
	1800	56	208-230/460	SSW050010T2246TPZ	-	CFW300A06P0T2NB20	CFW500A04P3T4NB20G2
	1800	145T	208-230/460	SSW050010T2246TPZ	-	CFW300A06P0T2NB20	CFW500A04P3T4NB20G2
	1200	182T	208-230/460	SSW050010T2246TPZ	-	CFW300A06P0T2NB20	CFW500A04P3T4NB20G2
2	3600	145T	208-230/460	SSW050010T2246TPZ	SSW050010T2246TPZ	CFW300A07P3T2NB20	CFW500A04P3T4NB20G2
	1800	56	208-230/460	SSW050010T2246TPZ	SSW050010T2246TPZ	CFW300A07P3T2NB20	CFW500A04P3T4NB20G2
	1800	145T	208-230/460	SSW050010T2246TPZ	SSW050010T2246TPZ	CFW300A07P3T2NB20	CFW500A04P3T4NB20G2
	1200	184T	208-230/460	SSW050010T2246TPZ	SSW050010T2246TPZ	CFW300A07P3T2NB20	CFW500A04P3T4NB20G2
3	3600	182T	208-230/460	SSW050010T2246TPZ	SSW050010T2246TPZ	CFW500B10P0B2DB20G2	CFW500B06P5T4DB20G2
	1800	182T	208-230/460	SSW050010T2246TPZ	SSW050010T2246TPZ	CFW500B10P0B2DB20G2	CFW500B06P5T4DB20G2
	1200	213T	208-230/460	SSW050010T2246TPZ	SSW050010T2246TPZ	CFW500B10P0B2DB20G2	CFW500B06P5T4DB20G2
5	3600	184T	208-230/460	SSW050016T2246TPZ	SSW050010T2246TPZ	CFW500B16P0T2DB20G2	CFW500B10P0T4DB20G2
	1800	184T	208-230/460	SSW050016T2246TPZ	SSW050010T2246TPZ	CFW500B16P0T2DB20G2	CFW500B10P0T4DB20G2
	1200	215T	208-230/460	SSW050016T2246TPZ	SSW050010T2246TPZ	CFW500B16P0T2DB20G2	CFW500B10P0T4DB20G2
7.5	3600	213T	208-230/460	SSW050023T2246TPZ	SSW050016T2246TPZ	CFW500C24P0T2DB20G2	CFW500C14P0T4DB20G2
	1800	213T	208-230/460	SSW050023T2246TPZ	SSW050016T2246TPZ	CFW500C24P0T2DB20G2	CFW500C14P0T4DB20G2
	1200	254T	208-230/460	SSW050023T2246TPZ	SSW050016T2246TPZ	CFW500C24P0T2DB20G2	CFW500C14P0T4DB20G2
10	3600	215T	208-230/460	SSW050030T2246TPZ	SSW050016T2246TPZ	CFW500D28P0T2DB20G2	CFW500C16P0T4DB20G2
	1800	215T	208-230/460	SSW050030T2246TPZ	SSW050016T2246TPZ	CFW500D28P0T2DB20G2	CFW500C16P0T4DB20G2
	1200	256T	208-230/460	SSW050030T2246TPZ	SSW050016T2246TPZ	CFW500D28P0T2DB20G2	CFW500C16P0T4DB20G2
15	3600	254T	208-230/460	SSW050045T2246TPZ	SSW050023T2246TPZ	CFW500D47P0T2DB20G2	CFW500D24P0T4DB20G2
	1800	254T	208-230/460	SSW050045T2246TPZ	SSW050023T2246TPZ	CFW500D47P0T2DB20G2	CFW500D24P0T4DB20G2
	1200	284T	208-230/460	SSW050045T2246TPZ	SSW050023T2246TPZ	CFW500D47P0T2DB20G2	CFW500D24P0T4DB20G2
20	3600	256T	208-230/460	SSW050060T2246TPZ	SSW050030T2246TPZ	CFW500E56P0T2DB20G2	CFW500D31P0T4DB20G2
	1800	256T	208-230/460	SSW050060T2246TPZ	SSW050030T2246TPZ	CFW500E56P0T2DB20G2	CFW500D31P0T4DB20G2
	1200	286T	208-230/460	SSW050060T2246TPZ	SSW050030T2246TPZ	CFW500E56P0T2DB20G2	CFW500D31P0T4DB20G2

HP	RPM	Frame	Voltage	Soft Starter Enclosure Rating: IP00 / IP20		Variable Frequency Drive Enclosure Rating: IP20	
				Motor Wired for 230V	Motor Wired for 460V	Motor Wired for 230V	Motor Wired for 460V
25	3600	284TS	208-230/460	SSW050085T2246TPZ	SSW050045T2246TPZ	CFW500F77P0T2DB20G2	CFW500E39P0T4DB20G2
	1800	284T	208-230/460	SSW050085T2246TPZ	SSW050045T2246TPZ	CFW500F77P0T2DB20G2	CFW500E39P0T4DB20G2
	1200	324T	208-230/460	SSW050085T2246TPZ	SSW050045T2246TPZ	CFW500F77P0T2DB20G2	CFW500E39P0T4DB20G2
30	3600	286TS	208-230/460	SSW050085T2246TPZ	SSW050045T2246TPZ	CFW500F88P0T2DB20G2	CFW500E49P0T4DB20G2
	1800	286T	208-230/460	SSW050085T2246TPZ	SSW050045T2246TPZ	CFW500F88P0T2DB20G2	CFW500E49P0T4DB20G2
	1200	326T	208-230/460	SSW050085T2246TPZ	SSW050045T2246TPZ	CFW500F88P0T2DB20G2	CFW500E49P0T4DB20G2
40	3600	324TS	208-230/460	SSW070130T5SZ	SSW050060T2246TPZ	CFW500F0105T2DB20G2	CFW500E49P0T4DB20G2 ¹
	1800	324T	208-230/460	SSW070130T5SZ	SSW050060T2246TPZ	CFW500F0105T2DB20G2	CFW500E49P0T4DB20G2 ¹
	1200	364T	208-230/460	SSW070130T5SZ	SSW050060T2246TPZ	CFW500F0105T2DB20G2	CFW500E49P0T4DB20G2 ¹
50	3600	326TS	208-230/460	SSW070130T5SZ	SSW050085T2246TPZ	CFW500G0145T2NB20G2	CFW500F77P0T4DB20G2
	1800	326T	208-230/460	SSW070130T5SZ	SSW050085T2246TPZ	CFW500G0145T2NB20G2	CFW500F77P0T4DB20G2
	1200	365T	208-230/460	SSW070130T5SZ	SSW050085T2246TPZ	CFW500G0145T2NB20G2	CFW500F77P0T4DB20G2
60	3600	364TS	208-230/460	SSW070171T5SZ	SSW050085T2246TPZ	CFW500G0180T2NB20G2	CFW500F88P0T4DB20G2
	1800	364T	208-230/460	SSW070171T5SZ	SSW050085T2246TPZ	CFW500G0180T2NB20G2	CFW500F88P0T4DB20G2
	1200	404T	208-230/460	SSW070171T5SZ	SSW050085T2246TPZ	CFW500G0180T2NB20G2	CFW500F88P0T4DB20G2
75	3600	365TS	208-230/460	SSW070200T5SZ	SSW070130T5SZ	CFW500G0211T2NB20G2	CFW500F0105T4DB20G2
	1800	365T	208-230/460	SSW070200T5SZ	SSW070130T5SZ	CFW500G0211T2NB20G2	CFW500F0105T4DB20G2
	1200	405T	208-230/460	SSW070200T5SZ	SSW070130T5SZ	CFW500G0211T2NB20G2	CFW500F0105T4DB20G2
100	3600	405TS	208-230/460	SSW070255T5SH1Z	SSW070130T5SZ	-	CFW500G0142T4NB20G2
	1800	405T	208-230/460	SSW070255T5SH1Z	SSW070130T5SZ	-	CFW500G0142T4NB20G2
	1200	444T	208-230/460	SSW070255T5SH1Z	SSW070130T5SZ	-	CFW500G0142T4NB20G2
125	3600	444TS	460	SSW070312T5SH1Z	SSW070171T5SZ	-	CFW500G0180T4NB20G2
	1800	444T	460	SSW070312T5SH1Z	SSW070171T5SZ	-	CFW500G0180T4NB20G2
	1200	445T	460	SSW070312T5SH1Z	SSW070171T5SZ	-	CFW500G0180T4NB20G2
150	3600	445TS	460	SSW070365T5SH1Z	SSW070200T5SZ	-	CFW500G0211T4NB20G2
	1800	445T	460	SSW070365T5SH1Z	SSW070200T5SZ	-	CFW500G0211T4NB20G2
	1200	447T	460	SSW070365T5SH1Z	SSW070200T5SZ	-	CFW500G0211T4NB20G2
200	3600	447TS	460	-	SSW070255T5SH1Z	-	CFW110242T4SZ
	1800	447T	460	-	SSW070255T5SH1Z	-	CFW110242T4SZ
	1200	447T	460	-	SSW070255T5SH1Z	-	CFW110242T4SZ
250	3600	447TS	460	-	SSW070312T5SH1Z	-	CFW110312T4SZ
	1800	447T	460	-	SSW070312T5SH1Z	-	CFW110312T4SZ
	1200	449T	460	-	SSW070312T5SH1Z	-	CFW110312T4SZ
300	3600	449TS	460	-	SSW070365T5SH1Z	-	CFW110370T4SZ
	1800	449T	460	-	SSW070365T5SH1Z	-	CFW110370T4SZ
	1200	449T	460	-	SSW070365T5SH1Z	-	CFW110370T4SZ

Notes:

1) CFW500 drives must have FM V3.70 or higher. Maximum ambient temperature 40°C.

CFW100-G2 Series – Variable Frequency Drives

Technology is at your fingertips with the smallest volume variable frequency drives (VFD) in the market. The CFW100 is a single-phase variable speed drive developed for simple applications ranging from 0.25 to 1 HP (0.18 to 0.75 kW).

A strong partner for OEMs, it gives induction motors a selectable scalar (V/f) or Voltage Vector WEG (VVW) control, HMI and plug-and-play philosophy, with easy and fast installation and operation.

Standard Features

- Robust overload current – 150% for 60 seconds, ambient temperature up to 50°C
- PLC SoftPLC functions – making it a flexible and optimized solution
- PID controller performance – changes in pressure, flow or other external data
- Communication protocol – Modbus RTU and CANopen using plug-in modules
- Conformal coating is standard – increasing the lifetime and protecting the electronic boards against corrosive atmospheres. Classified as 3C2 according to IEC 60721-3-3.



Applications

- Food and beverage
- Small handling
- Air circulation
- Medical and health sector
- Machines with single-phase power source
- New markets (solar, etc.)
- Packaging lines
- Sorting conveyors



CFW100-G2 Catalog Number Sequence

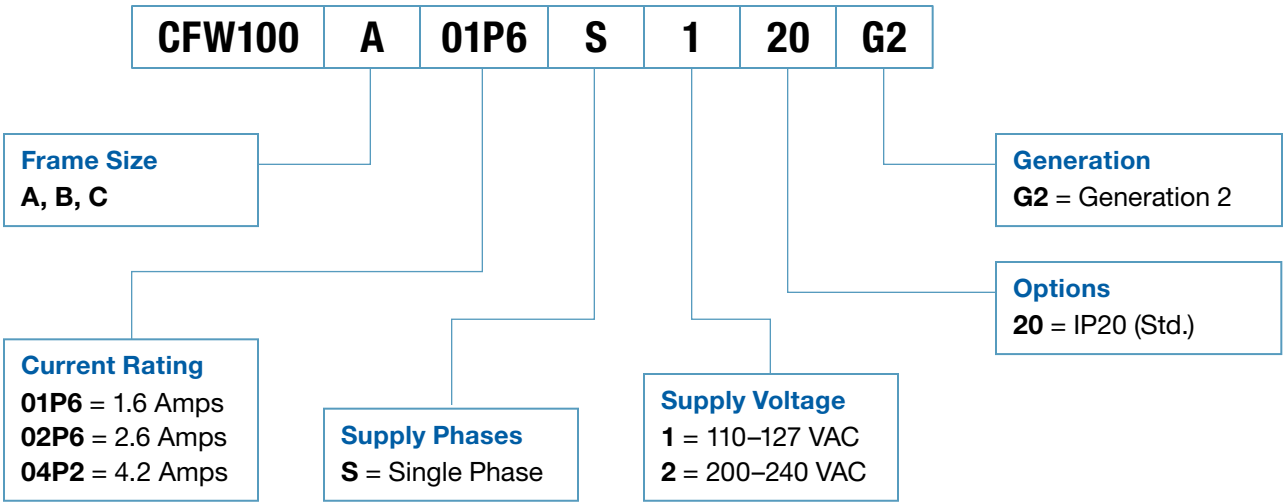


Chart intended as reference only and not to create part numbers.

Variable Frequency Drives



CFW100-G2 Series

CFW100-G2 Generation 2 (IP20 Finger Safe Enclosure)

Motor Voltage	Motor HP ¹	Drive Amps ²	Catalog Number	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
230 VAC Three-Phase	Input Power Supply: Single-Phase 120 VAC							
	1/4 - 1/3	1.6	CFW100A01P6S120G2	A	4.0 x 2.2 x 5.1	1.1	\$307	V1U (V1)
	3/4	2.6	CFW100B02P6S120G2	B	4.6 x 2.2 x 5.1	1.3	\$335	V1U (V1)
	Input Power Supply: Single-Phase 240 VAC							
	1/4 - 1/3	1.6	CFW100A01P6S220G2	A	4.0 x 2.2 x 5.1	1.1	\$275	V1U (V1)
	3/4	2.6	CFW100B02P6S220G2	B	4.6 x 2.2 x 5.1	1.3	\$296	V1U (V1)
	1	4.2	CFW100C04P2S220G2	C	5.0 x 2.2 x 5.1	1.4	\$315	V1U (V1)

1) "HP" rating based on "average FLA values." Use as a guide only.
2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive. For other technical data please refer to WEG product manual.

Options & Accessories

	Type	Catalog Number	Description	Approx. Weight (lbs)	List Price	Multiplier New (old)
All Frames	CFW Accessories					
	I/O	CFW100-IOAR	CFW100 I/O Expansion Module – 1 AI, 1 DO	0.2	\$81	V1U (V1)
	I/O	CFW100-IOA	CFW100 I/O Expansion Module – 1 AI, 1 AO	0.2	\$99	V1U (V1)
	I/O	CFW100-IOD	CFW100 I/O Exp. Module – 4 DI, PNP or NPN	0.2	\$82	V1U (V1)
	I/O	CFW100-IODR	CFW100 I/O Exp. and Encoder Module – 3DI, 3DOR	0.2	\$220	V1U (V1)
	I/O	CFW100-IOP	CFW100 Potentiometer Module ⁴	0.2	\$90	V1U (V1)
	Infrared	CFW100-IOADR	I/O Exp. and Infrared Comm. Module 1 – 1 AI, 3DOR ¹	0.4	\$207	V1U (V1)
	USB Card	CFW100-CUSB	CFW100 USB Communication Module ²	0.2	\$87	V1U (V1)
	RS485 Card	CFW100-CRS485	CFW100 RS-485 Communication Module	0.2	\$82	V1U (V1)
	CANopen Card	CFW100-CCAN	CFW100 CANopen and DeviceNet Comm. Module	0.2	\$195	V1U (V1)
	Flash Memory Module	MMF-uDrives	CFW100/300 Flash Memory Module	0.4	\$218	GA (V1)
	Remote Keypad Kit	CFW100-KHMIR	CFW100 Remote Keypad Kit ³	0.4	\$256	V1U (V1)
	RFI Filter Kit	CFW100-KFABC-S1 ⁵	RFI Filter Kit – 110 V	0.7	\$126	V1U (V1)
		CFW100-KFABC-S2 ⁵	RFI Filter Kit – 220 V	0.7	\$90	V1U (V1)

1) CFW100-IOADR includes infrared receiver with 1.5 m cable and infrared remote control.
2) CFW100-USB Communication Module includes 2-meter Mini-USB cable.
3) CFW100-KHMIR Remote Keypad Kit includes Remote Keypad: CFW100-CRS485 module; 3-meter Mini-USB cable.
4) CFW100-IOP works only with CFW100-G2 drives.
5) Not UL listed.

CFW100 Option Module		Option Module I/O Table							
		DI ¹	AI	AO	DOR	Encoder	Infrared	USB	CANopen
All Frames	CFW100-IOAR		1		1				
	CFW100-IOA		1	1					
	CFW100-IOD	4							
	CFW100-IODR	3			3	1			
	CFW100-IOADR		1		3		1		
	CFW100-IOP		1 (POT)						
	CFW100-CUSB							1	
	CFW100-CRS485								1
	CFW100-CCAN								1

1) CFW100 Drive includes 4DI as standard. Option Modules provide supplemental I/O as shown in this table.

Technical Data

Power Supply	Voltage	Single-phase	200–240 VAC (+10%, -15%) 110–127 VAC (+10%, -15%)
	Frequency	50/60 Hz +/- 2 Hz	
	Displacement Power Factor (Cos)	Greater than 0.97	
Enclosure	Degree of Protection	IP20	
Control	Control Mode	V/Hz (Scalar)	
		Voltage Vector WEG (VWV)	
	Power Output	IGBT Transistors	
		Sinusoidal PWM (Space Vector Modulation)	
	Switching Frequency	2.5, 5, 10 or 15 kHz (5 kHz Default)	
	Frequency Range	0-300 Hz, 0.1 Hz resolution	
	Overload Capacity	150% for 60 seconds, repeatable every 6 minutes	
Control Inputs and Outputs	Four programmable 24 VDC isolated digital inputs (other I/O configurations with option cards)		
Safety	Protections	Output phase-to-phase short circuit	DC link over voltage
		Output phase-to-ground short circuit	DC link under voltage
		IGBT peak over current	Drive over temperature
		Programming error	External fault
		Motor Overload	
	Standards	UL 508C; UL 840; EN 61800-5-1; EN 50178; EN 60204-1; EN 60146 (IEC 146); EN 61800-2	
Ambient	Temperature	32°F (0°C), up to 122°F (50°C) without output current derating	
	Humidity	5–95% Non-condensing	
	Altitude	0–3,300 ft (1,000 m); Up to 13,200 ft (4,000 m) with 1% derating of rated output current per 330 ft (100 m) above 3,300 ft (1,000 m) elevation	
Regulatory Conformance	EMC Directive 89 / 336 / EEC	Electromagnetic compatibility, Industrial Environment EMC Emission and Immunity	
	ENC61800-3 for the FA version – optional		
	LVD 73/23/EEC	Low Voltage Directive	
	UL 508C; UL 50, UL840	Power Conversion Equipment	
Special Functions	Linear and “S” ramp accel and decel, local/remote control, FWD/REV selection, DC braking, manual and auto torque boost, motor slip compensation, electronic pot, two skip frequencies, maximum and minimum adjustable frequency limits, adjustable output current limit, 8 present speeds and JOG, PID Controller		
Keypad with HMI	Three (3) digit LCD display and four (4) keys		
	Readouts for: output frequency (Hz), output current (A), output voltage (V), value proportional to frequency (Ex: RPM), heatsink temperature, fault and status messages.		
Mounting	DIN Rail mounting		
Communications	Modbus RTU	CFW100-CRS485 Optional Plug-in Module	
	CANopen/Devicenet	CFW100-CCAN Optional Plug-in Module	
Connectivity	USB	CFW100-CUSB Optional Plug-in Module	

CFW320 Series – Variable Frequency Drives

The CFW320 is a high-performance variable-speed drive for three-phase induction motors. It is ideal for machines or equipment applications requiring precise control with easy setup and operation.

The CFW320 features a compact size with contactor-style electrical connections (top in/bottom out (I/O)). The VFD's performance can be scaled to match the application by selecting Voltage Vector WEG (VWV) control or scalar control (V/f). The CFW320 includes a built-in operator interface (HMI) and SoftPLC with free WPS programming software for custom-tailored control schemes. A variety of plug-in option modules for additional I/O and communications protocols may be added to provide extended capabilities, making the CFW320 a flexible and cost-effective solution for your variable speed requirements.



Standard Features

- Listed under new UL61800-5-1
- Power Range:
 - Up to 2 HP at 3/230 VAC with 1/110–127 VAC input
 - Up to 3 HP at 3/230 VAC with 1/200–240 VAC input
 - Up to 5 HP at 3/230 VAC with 3/200–240 VAC input
 - Up to 10 HP at 3/460 VAC with 3/380–480 VAC input
- DIN rail or surface mounting with screws
- Control mode: Scalar (V/Hz) or Voltage Vector WEG (VWV)
- Switching frequency: 2.5–15 kHz
- Overload capacity: 150% for 60 seconds every 10 minutes or 200% for 3 seconds every 10 minutes
- Degree of protection: IP20
- 460 VAC Models available with and without dynamic braking chopper
- Conformal coated circuit board as per Class 3C2 in compliance with IEC 60721-3-3
- Built-in SoftPLC (PLC functionality)
- Built-in four digital inputs, one analog input, and one Form-C relay output
- Two independent slots: one for communication and another to expand drive I/O capability
- Wide variety of communication options

Applications

- | | |
|---------------------|---------------------|
| • Centrifugal pumps | • Conveyors |
| • Fans / blowers | • Roller tables |
| • Blenders / mixers | • Granulators |
| • Centrifuges | • Commercial dryers |
| • Compressors | • Rotary filters |

CWC320 Catalog Number Sequence

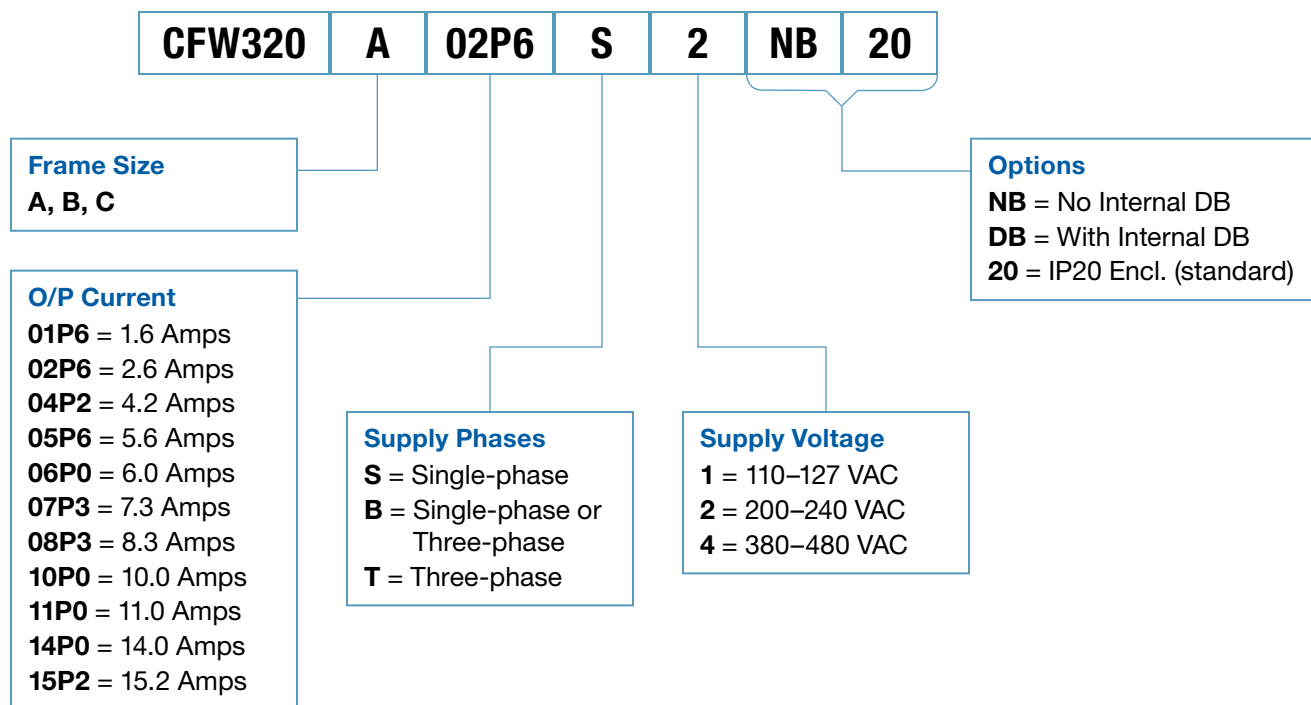


Chart intended as reference only and not to create part numbers.



Variable Frequency Drives

CFW320 Series

CFW320 – IP20

Motor Voltage	Motor HP ¹	Drive Amps ²	Catalog Number	Braking Transistor	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier
230 VAC / Three-Phase ⁴	Input Power Supply: Single-Phase 110–127 VAC								
	1/4 or 1/3	1.6	CFW320A01P6S1NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$361	V1M
	3/4	2.6	CFW320A02P6S1NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$394	V1M
	1	4.2	CFW320A04P2S1NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$420	V1M
	2	6.0	CFW320A06P0S1NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$507	V1M
	Input Power Supply: Single-Phase 200–240 VAC								
	1/4 or 1/3	1.6	CFW320A01P6S2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$323	V1M
	3/4	2.6	CFW320A02P6S2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$348	V1M
	1	4.2	CFW320A04P2S2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$371	V1M
	2	6.0	CFW320A06P0S2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$461	V1M
	2	7.3	CFW320A07P3S2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$543	V1M
	3	10.0	CFW320B10P0B2DB20 ³	Yes	B	8.08 x 2.76 x 6.24	2.95	\$648	V1M
	Input Power Supply: Three-Phase 200–240 VAC								
	1/4 or 1/3	1.6	CFW320A01P6T2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$343	V1M
	3/4	2.6	CFW320A02P6T2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$376	V1M
	1	4.2	CFW320A04P2T2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$399	V1M
	2	6.0	CFW320A06P0T2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$484	V1M
	2	7.3	CFW320A07P3T2NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$571	V1M
	3	10.0	CFW320B10P0B2DB20 ³	Yes	B	8.08 x 2.76 x 6.24	2.95	\$648	V1M
	5	15.2	CFW320B15P2T2DB20	Yes	B	8.08 x 2.76 x 6.24	2.95	\$792	V1M
460 VAC / Three-Phase ⁵	Input Power Supply: Three-Phase 460–480 VAC without Dynamic Braking Transistor								
	1/2	1.1	CFW320A01P1T4NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$466	V1M
	1	1.8	CFW320A01P8T4NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$474	V1M
	1 1/2	2.6	CFW320A02P6T4NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$483	V1M
	2	3.5	CFW320A03P5T4NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$519	V1M
	3	4.8	CFW320A04P8T4NB20	No	A	6.22 x 2.76 x 5.84	1.98	\$639	V1M
	3	5.6	CFW320B05P6T4NB20	No	B	8.08 x 2.76 x 6.24	2.95	\$786	V1M
	5	7.6	CFW320B07P6T4NB20	No	B	8.08 x 2.76 x 6.24	2.95	\$809	V1M
	5	8.3	CFW320C08P3T4NB20	No	C	8.43 x 3.5 x 6.45	3.30	\$886	V1M
	7 1/2	11.0	CFW320C11P0T4NB20	No	C	8.43 x 3.5 x 6.45	3.30	\$919	V1M
	10	14.0	CFW320C14P0T4NB20	No	C	8.43 x 3.5 x 6.45	3.30	\$1,137	V1M
	Input Power Supply: Three-Phase 460–480 VAC with Dynamic Braking Transistor								
	1/2	1.1	CFW320B01P1T4DB20	Yes	B	8.08 x 2.76 x 6.24	2.95	\$488	V1M
	1	1.8	CFW320B01P8T4DB20	Yes	B	8.08 x 2.76 x 6.24	2.95	\$498	V1M
	1 1/2	2.6	CFW320B02P6T4DB20	Yes	B	8.08 x 2.76 x 6.24	2.95	\$512	V1M
	2	3.5	CFW320B03P5T4DB20	Yes	B	8.08 x 2.76 x 6.24	2.95	\$566	V1M
	3	4.8	CFW320B04P8T4DB20	Yes	B	8.08 x 2.76 x 6.24	2.95	\$714	V1M
	3	5.6	CFW320B05P6T4DB20	Yes	B	8.08 x 2.76 x 6.24	2.95	\$833	V1M
	5	7.6	CFW320B07P6T4DB20	Yes	B	8.08 x 2.76 x 6.24	2.95	\$854	V1M
	5	8.3	CFW320C08P3T4DB20	Yes	C	8.43 x 3.5 x 6.45	3.30	\$935	V1M
	7 1/2	11.0	CFW320C11P0T4DB20	Yes	C	8.43 x 3.5 x 6.45	3.30	\$966	V1M
	10	14.0	CFW320C14P0T4DB20	Yes	C	8.43 x 3.5 x 6.45	3.30	\$1,196	V1M

Notes:
1) "HP" rating based on WEG 4-Pole W22 motors' "average FLA values." Use as a guide only.
2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to drive output current.
3) "CFW320B10P0B2DB20" is capable of single-phase input without derating.
4) All the 230 VAC drives are rated for maximum ambient temperature of 50°C without derating.
5) All the 460 VAC drives are rated for maximum ambient temperature of 40°C without derating.

Options & Accessories¹

Type	Catalog Number	Slot	Three-Phase	Approx. Wt. (lbs)	List Price	Multiplier
Communication Module	CFW320-CRS485	1 (Upper)	RS-485 Module; 1 RS-485 Input (Modbus RTU / BACnet MS/TP), 1 Mini USB for Remote Keypad	0.2	\$85	V1M
	CFW320-CRS232	1 (Upper)	RS-232 Communication Module (Modbus RTU); 1 RS232	0.2	\$85	V1M
	CFW320-CCAN	1 (Upper)	CANopen/DeviceNet Comm. Module; 1 CAN/DeviceNet, External 24VDC Power	0.2	\$100	V1M
	CFW320-CPDP	1 (Upper)	Profibus DP Communication Module; 1 Profibus DP 9-Pin Connector	0.2	\$294	V1M
	CFW320-CUSB	1 (Upper)	USB Communication Module w/2-meter Cable; 1 Mini USB	0.2	\$98	V1M
	CFW320-CETH	1 (Upper)	Dual Port Modbus TCP or Ethernet/IP Communication Module	0.2	\$287	V1M
Remote Keypad	CFW320-KHMIR	1 (Upper)	Remote Keypad; Includes CFW320-CRS485 and 3-meter Cable	0.4	\$266	V1M
I/O Expansion Modules ²	CFW320-IOP	1 (Upper)	CFW320 Potentiometer Reference Module	0.2	\$90	V1M
	CFW320-IOAR	2 (Lower)	I/O Expansion Module; 1 AI, 1 AO, 3 DOR, +10VDC	0.2	\$146	V1M
	CFW320-IODR	2 (Lower)	I/O Expansion Module; 4 DI, 3 DOR	0.2	\$112	V1M
	CFW320-IOAENC	2 (Lower)	I/O and Encoder Module; 1 AI, 2 AO, +10VDC, 1 Incremental Encoder Input +5VDC	0.2	\$149	V1M
	CFW320-IOADR	2 (Lower)	I/O Expansion Module: 1 NTC, 3RO and 1 infrared input. Simple remote control with battery	0.2	\$215	V1M
	CFW320-IOADR-D	2 (Lower)	I/O Expansion Module: 1 NTC, 3RO and 1 infrared input. Complete remote control with battery and DISPLAY	0.2	\$245	V1M
	CFW320-IODF ³	2 (Lower)	I/O Expansion Module: 3 Pulse/frequency Input and 3 Pulse/Frequency output (10 Hz to 3000 Hz)	0.2	\$120	V1M
Flash Memory Module	MMF-uDrives	-	CFW100/3x0 Flash Memory Module	0.2	\$218	GA (V1)
RFI Filter ⁴	CFW320-KFA-S1-S2	-	RFI Filter accessory for CFW320 110–240V frame size “A”	0.3	\$93	V1M
	CFW320-KFB-S2	-	RFI Filter accessory for CFW320 200–240V frame size “B”	0.3	\$109	V1M
	CFW320-KFA-T2	-	RFI Filter accessory for CFW320 200–240V frame size “A”	0.3	\$173	V1M
	CFW320-KFB-T2	-	RFI Filter accessory for CFW320 200–240V frame size “B”	0.3	\$213	V1M
	CFW320-KFA-T4	-	RFI Filter accessory for CFW320 380–480V frame size “A”	0.5	\$173	V1M
	CFW320-KFB-T4	-	RFI Filter accessory for CFW320 380–480V frame size “B”	0.5	\$213	V1M
	CFW320-KFC-T4	-	RFI Filter accessory for CFW320 380–480V frame size “C”	0.5	\$226	V1M

Notes:

1) Up to Qty. (1) I/O Expansion Module plus Qty. (1) Communication Module can be added to the CFW320 VFD.

2) Option I/Os are in addition to the standard CFW320 I/O, which includes four (4) DI, 1 AI, 1 DOR.

3) The I/Os for “CFW320-IODF” module are only accessible through SoftPLC Application.

4) The RFI filters are not “UL” listed.

CFW320 Series

Option Card I/O Table ⁶

CFW320 Communication / I/O Modules	Slots ⁵	Inputs			Outputs			Potentiometer for Speed Reference	USB ⁴	Infrared Sensors & NTC ³	Encoder input ²	Network Communication		
		Analog	Digital	Frequency	Analog	Relay	Digital					RS485	RS232	Others
CFW320-CRS485	Upper slot	-	-	-	-	-	-	-	-	-	-	1	-	-
CFW320-CRS232		-	-	-	-	-	-	-	-	-	-	-	1	-
CFW320-CCAN		-	-	-	-	-	-	-	-	-	-	-	-	CANopen or DeviceNet
CFW320-CPDP		-	-	-	-	-	-	-	-	-	-	-	-	Profibus-DP
CFW320-CUSB		-	-	-	-	-	-	-	1	-	-	-	-	-
CFW320-IOP		-	-	-	-	-	-	1	-	-	-	-	-	-
CFW320-CETH		-	-	-	-	-	-	-	-	-	-	-	-	Ethernet/IP or Modbus TCP
CFW320-IOAR	Lower slot	1	-	-	1	3	-	-	-	-	-	-	-	-
CFW320-IODR 1		-	4	-	-	3	-	-	-	-	-	-	-	-
CFW320-IOAENC		1	-	-	2	-	-	-	-	-	1	-	-	-
CFW320-IOADR		1	-	-	-	3	-	-	-	1	-	-	-	-
CFW320-IOADR-D		-	-	-	-	3	-	-	-	1	-	-	-	-
CFW320-IODF		-	-	3	-	-	3	-	-	-	-	-	-	-

Notes:

1) Configurable isolated digital inputs (NPN or PNP).

2) An incremental encoder (A/A and B/B) with a power supply of +5 V at 100 mA for the encoder and a maximum frequency of 400 kHz.

3) Remote control and battery included.

4) USB cable included.

5) It allows one plug-in module in the upper slot (network communication) and one plug-in module in the lower slot (input/output expansion).

6) The standard version of the CFW320 already has four (4) configurable PNP or NPN digital inputs, one analog input 0–10 VDC / 4–20 mA, and one relay output 0.5 A / 250 VAC.

Dimensions



CFW320 Frame Size (IP20)	H in (mm)	W in (mm)	D in (mm)	Weight Lb (kg)
A (w/o RFI)	6.22 (157.9)	2.76 (70.0)	5.84 (148.4)	1.98 (0.90)
A (w/ RFI)	7.72 (196.0)	2.76 (70.0)	7.48 (190.1)	2.86 (1.30)
B (w/o RFI)	8.08 (198.9)	2.76 (70.0)	6.24 (158.4)	2.95 (1.34)
B (w/ RFI)	9.33 (237.0)	2.76 (70.0)	7.88 (200.1)	3.96 (1.80)
C (w/o RFI)	8.43 (214.0)	3.50 (89.0)	6.45 (164.0)	3.30 (1.50)
C (w/ RFI)	9.93 (252.3)	3.50 (89.0)	8.17 (207.5)	4.31 (1.96)

Options & Accessories¹

Input AC Power Supply	Voltage	Single-phase	110–127 VAC (+10%, -15%)
		Single-phase or three-phase	200–240 VAC (+10%, -15%)
		Three-phase	380–480 VAC (+10%, -15%)
	Frequency	50/60 Hz (Range: 48–62 Hz)	
	Phase unbalance	≤ 3% between line voltages	
	Overvoltages / transients	Category III (EN 61010 / IEC61800-5-1 / UL61800-5-1)	
	Typical efficiency	≥ 97%	
	Audible noise level	< 60 dB	
Ambient	Operating ambient temperature	200V Line: from 32°F to 122°F (0°C to 50°C) 400V Line: from 32°F to 104°F (0°C to 40°C) For temperatures higher than specified above, it is necessary to apply 2% of current derating for each °C (1.1% for each °F), limited to an increase of 10°C (18°F).	
	Humidity	5–95% Non-condensing	
	Altitude	1,000 m w/o derating 1,000 m to 4,000 m, 1% current derating for each 100 m above 1,000 m	
		From 2,000 m to 4,000 m above sea level: maximum voltage derating (127 V / 240 V / 480 V, according to the model) of 1.1% for each 100 m above 2,000 m	
	Pollution degree	2° (according to EN 50178 and UL 508C), with non-conductive pollution. Condensation must not cause the conduction of the accumulated residues.	
	Conformal coating	3C2 (IEC 60721-3-3:2002)	
Motor Control	Type of control	V/f (Scalar)	
		V/f (Quadratic)	
		VWV: Voltage Vector WEG	
	Modulation	PWM SVM (Space Vector Modulation)	
Performance	Speed control	0–400 Hz, resolution 0.1 Hz	
		V/f Control: Speed regulation: 1% of the rated speed (with sleep compensation) Speed variation range: 1:20	
		VWV: Voltage Vector WEG Speed regulation: 1% of the rated speed Speed variation range: 1:30	
Inputs ¹	Analog	One (1) isolated input: 0–10 V or 0–20 mA or 4–20 mA Linearity error ≤ 0.25% Impedance: 100 kΩ for voltage input, 500 Ω for current input Programmable functions Voltage on the inputs: 30 VDC	
	Digital	Four (4) isolated inputs Programmable functions: - Active high (PNP): maximum low level of 10 VDC, minimum high level 20 VDC - Active low (NPN): maximum low level of 5 VDC, minimum high level of 10 VDC Maximum input voltage of 30 VDC Input current: 11 mA Maximum input current: 20 mA	
Outputs ¹	Relay	One (1) relays with NO/NC contact Maximum voltage: 250 VAC Maximum current: 0.5 A Programmable functions	
	Power supply	10 VDC power supply maximum capacity: 50 mA	
Safety	Protection	Overcurrent/phase-phase short circuit in the output Under/overvoltage at the power supply Motor overload Overtemperature in the power module (IGBTs) External fault/alarm Programming error	
Keypad (HMI)	Built-in	4 keys: run/stop, increment, decrement and setting LCD display indication accuracy: - Current: 10% of the rated current - Speed resolution: 0.1 Hz	
Communication	Communication networks or accessibility	Modbus TCP, RS485 (Modbus RTU / BACnet), RS232, CANopen, DeviceNet, Ethernet/IP, Profibus-DP or USB Port (with plug-in modules)	
Protection Rating	IP20	Frames A, B & C	

Notes:

1) Available as a drive built-in I/Os.

Variable Frequency Drives



CFW320 Series

Technical Data

Safety Standards	UL61800-5-1: adjustable speed electrical power drive systems – Part 5-1: safety requirements – electrical, thermal and energy.	
	EN 61800-5-1: Safety requirements electrical, thermal and energy	
	EN 50178: Electronic equipment for use in power installations	
	EN 60204-1: Safety of machinery. Electrical equipment of machines. Part 1: general requirements Notes: the final assembler of the machine is responsible for installing a safety stop device and a supply disconnecting device	
	EN 60146 (IEC 146): Semiconductor converters	
	EN 61800-2: Adjustable speed electrical power drive systems – Part 2: General requirements – rating specifications for low voltage adjustable frequency AC power drive systems	
Electromagnetic Compatibility Standards (EMC)	EN 61800-3: Adjustable speed electrical power drive systems – Part 3: EMC product standard including specific test methods Maximum voltage: 30 VDC	
	CISPR 11: Industrial, scientific and medical (ISM) radio-frequency equipment – electromagnetic disturbance characteristics – limits and methods of measurement	
	EN 61000-4-2: Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Sec. 2: Electrostatic discharge immunity test	
	EN 61000-4-3: Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Sec. 3: Radiated, radio-frequency, electromagnetic field immunity test	
	EN 61000-4-4: Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Sec. 4: Electrical fast transient/burst immunity test	
	EN 61000-4-5: Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Sec. 5: Surge immunity test	
	EN 61000-4-6: Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Sec. 6: Immunity to conducted disturbances, induced by radio-frequency fields	
Mechanical Standards	EN 60529: Degrees of protection provided by enclosures (IP code)	
	UL 50: Enclosures for electrical equipment	
	IEC 60721-3-3: Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Sec. 3: Stationary use at weather protected locations level	
Ecodesign Standards	IEC 61800-9-2 Parts 1 & 2: "Adjustable speed electrical power drive systems – Ecodesign for power drive systems, motor starters, power electronics and their driven applications"	
Functional Safety Standards	EN 61800-5-2: Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional	
	EN ISO 13849-1: Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design	
	EN 62061: Safety of machinery – Functional safety of safety-related control systems	
	IEC 61508 Parts 1–7: Functional safety of electrical/electronic/programmable electronic safety-related systems	
	EN 60204-1: Safety of machinery – Electrical equipment of machines – Part 1: General requirements	
Certifications	cULus	Certificate number: UL-US-2214688-0; Report Reference: E184430-20220408
	CE	European Community
	UKCA	United Kingdom
	EAC	Russia
	C-Tick	Australia & New Zealand



Dynamic Braking Resistors

100% Braking Torque at 20% Duty Cycle (12 Seconds Maximum Braking Time) – NEMA 1 Enclosure

Motor Voltage	Motor HP	CFW320 Catalog Number	Braking Resistor Catalog Number	Rated Ohms	Rated Watts	Dimensions (in) H x W x D ¹	List Price	Multiplier New (old)
3/230 VAC	3	CFW320B10P0B2DB20	CFDB2-63-448	63	500	5 x 12 x 7	\$825	GA (V1)
	5	CFW320B15P2T2DB20	CFDB2-63-448	63	500	5 x 12 x 7	\$825	GA (V1)
3/460 VAC	1/2	CFW320B01P1T4DB20	CFDB2-250-448	250	512	5 x 12 x 7	\$825	GA (V1)
	1	CFW320B01P8T4DB20	CFDB2-250-448	250	512	5 x 12 x 7	\$825	GA (V1)
	1 1/2	CFW320B02P6T4DB20	CFDB2-250-448	250	512	5 x 12 x 7	\$825	GA (V1)
	2	CFW320B03P5T4DB20	CFDB2-250-448	250	512	5 x 12 x 7	\$825	GA (V1)
	3	CFW320B04P8T4DB20	CFDB2-100-1119	100	1280	5 x 12 x 13	\$1,225	GA (V1)
	3	CFW320B05P6T4DB20	CFDB2-100-1119	100	1280	5 x 12 x 13	\$1,225	GA (V1)
	5	CFW320B07P6T4DB20	CFDB2-100-1119	100	1280	5 x 12 x 13	\$1,225	GA (V1)
	5	CFW320C08P3T4DB20	CFDB2-50-2238	50	2560	5 x 19 x 13	\$1,965	GA (V1)
	7 1/2	CFW320C11P0T4DB20	CFDB2-50-2238	50	2560	5 x 19 x 13	\$1,965	GA (V1)
	10	CFW320C14P0T4DB20	CFDB2-50-2238	50	2560	5 x 19 x 13	\$1,965	GA (V1)

Notes:
1) Dimensions are provided for estimating purposes only.

CFW500-G2 Series – Variable Frequency Drive

The CFW500 has advanced technology plug-and-play options developed for fast commissioning, providing great flexibility and competitive advantage while offering excellent performance and reliability. Designed for exclusively industrial or professional use, perfect for OEM, system integrators, panel installers, and End Users, providing great benefit from the added value. The second-generation (G2) CFW500 drives now offer more features in the same footprint as first-generation (G1) drives. The power range of the CFW500-IP20-G2 drive is now extended to 75 HP at 230 VAC and 175 HP at 460 VAC. The CFW500-G2 drive is also available in the IP66/NEMA 4X Washdown enclosure, which is rated for indoor and outdoor installation in direct sunlight.

Standard Features

- Same programming as other WEG VFDs including CFW500 G1 drives
- Built-in SoftPLC
- Control Mode: Scalar, VVW (Voltage Vector WEG), Vector Control (sensorless and closed loop with encoder feedback), VVW PM (suitable for fan, pump, and compressor).
- IP20 and NEMA 1 (with NEMA 1 kit) Enclosure
- NEMA 4X (IP66) Washdown Enclosure with and without disconnect switch, suitable for indoor and outdoor use (in direct sunlight)
- 200–240 V, 380–480 V or 500–600 input voltage
- Heavy-Duty Rated: 150% current overload capacity
- 0–500 Hz output frequency
- 2.5–15 kHz adjustable switching frequency (5 kHz standard)
- Built-in 24 VDC Power supply (maximum 150 mA)
- Built-in RS-485 (Modbus RTU/BACnet) communication
- Four isolated programmable digital inputs
- One programmable relay output (1NO, 1NC, 240 VAC 0.5A)
- One programmable transistor output
- One isolated, programmable analog input (0 to 10 V, 0/4 to 20 mA)
- One isolated, programmable analog output (0 to 10 V, 0/4 to 20 mA)
- Optional safe torque off module
- Pump Genius – Simplex, Multiplex (up to three pumps in parallel) like CFW11 Pump Genius
- WLP and WPS compatible



For Indoor Use



For Indoor / Outdoor Use



Applications

- Pumps
- Fans/ventilators
- Blowers
- Conveyors
- Rollout tables
- Mixers/blenders
- Commercial dryers
- Extruders
- General machinery
- Agitators
- Any washdown (for NEMA 4X/IP66)

CFW500-G2 Catalog Number Sequence

CFW500	A	01P6	T	4	NB	20	G2
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CFW500	A	02P6	B	2	DB	66	DS	G2
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Frame Size

A, B, C, D, E, F, G

O/P Current

01P6 = 1.6 Amps
02P6 = 2.6 Amps
06P5 = 6.5 Amps
07P3 = 7.3 Amps
10P0 = 10.0 Amps
16P0 = 16 Amps
24P0 = 24 Amps
49P0 = 49 Amps
56P0 = 56 Amps
88P0 = 88 Amps
0105 = 105 Amps
0142 = 142 Amps
0180 = 180 Amps
0211 = 211 Amps

Supply Phases

S = Single-phase
B = Single-phase or
 Three-phase
T = Three-phase

Supply Voltage

2 = 200–240 VAC
4 = 380–480 VAC
5 = 500–600 VAC

Options

NB = No Internal DB
DB = With Internal DB

20 = IP20 Encl.
66 = NEMA 4X/IP66

DS = With Disconnect
 Switch
G2 = Generation 2

Chart intended as reference only and not to create part numbers.

CFW500-G2 Series

CFW500 – IP20 – G2 (GENERATION 2)

IP20 Finger Safe Enclosure

Motor Voltage	ND / VT¹		HD / CT¹		Catalog Number	Braking Transistor	Frame Size⁴	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP²	Drive Amps³	Motor HP²	Drive Amps³							
230 VAC / Three-Phase	Input Power Supply: Single-Phase 200–240 VAC										
	1/3	1.6	1/3	1.6	CFW500A01P6S2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$451	V1G (V1)
	3/4	2.6	3/4	2.6	CFW500A02P6S2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$463	V1G (V1)
	1 1/2	4.3	1 1/2	4.3	CFW500A04P3S2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$499	V1G (V1)
	2	7.3	2	7.3	CFW500A07P0S2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$633	V1G (V1)
	Input Power Supply: Single-Phase or Three-Phase 200–240 VAC										
	1/3	1.6	1/3	1.6	CFW500A01P6B2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$456	V1G (V1)
	3/4	2.6	3/4	2.6	CFW500A02P6B2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$467	V1G (V1)
	1 1/2	4.3	1 1/2	4.3	CFW500A04P3B2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$506	V1G (V1)
	2	7.3	2	7.3	CFW500B07P3B2DB20G2	Yes	B	7.9 x 4.0 x 6.3	2.6	\$678	V1G (V1)
	3	10.0	3	10.0	CFW500B10P0B2DB20G2	Yes	B	7.9 x 4.0 x 6.3	2.6	\$789	V1G (V1)
	Input Power Supply: Three-Phase 200–240 VAC										
	2	7.0	2	7.0	CFW500A07P0T2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$628	V1G (V1)
	3	9.6	3	9.6	CFW500A09P6T2NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$773	V1G (V1)
	5	16	5	16	CFW500B16P0T2DB20G2	Yes	B	7.9 x 4.0 x 6.3	2.6	\$842	V1G (V1)
	7 1/2	24	7 1/2	24	CFW500C24P0T2DB20G2	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,427	V1G (V1)
	10	28	10	28	CFW500D28P0T2DB20G2	Yes	D	12.1 x 7.1 x 6.6	9.5	\$1,777	V1G (V1)
	10	33	10	33	CFW500D33P0T2DB20G2	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,146	V1G (V1)
	15	47	15	47	CFW500D47P0T2DB20G2	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,910	V1G (V1)
	25⁵	70⁵	20	56	CFW500E56P0T2DB20G2 ⁵	Yes	E	13.8 x 8.7 x 7.6	22.1	\$3,380	V1G (V1)
	25	77	20	64	CFW500F77P0T2DB20G2	Yes	F	21.6 x 11.8 x 10	57.3	\$4,150	V1G (V1)
	30	88	25	75	CFW500F88P0T2DB20G2	Yes	F	21.6 x 11.8 x 10	57.3	\$5,200	V1G (V1)
	40	105	30	88	CFW500F0105T2DB20G2	Yes	F	21.6 x 11.8 x 10	57.3	\$7,050	V1G (V1)
	50	145	40	115	CFW500G0145T2NB20G2	No	G	26.6 x 13.2 x 12.4	114.6	\$8,500	V1G (V1)
	60	180	50	145	CFW500G0180T2NB20G2	No	G	26.6 x 13.2 x 12.4	114.6	\$10,250	V1G (V1)
	75	211	60	180	CFW500G0211T2NB20G2	No	G	26.6 x 13.2 x 12.4	114.6	\$13,500	V1G (V1)
	50	145	40	115	CFW500G0145T2DB20G2	Yes	G	26.6 x 13.2 x 12.4	114.6	\$9,095	V1G (V1)
	60	180	50	145	C FW500G0180T2DB20G2	Yes	G	26.6 x 13.2 x 12.4	114.6	\$10,965	V1G (V1)
	75	211	60	180	CFW500G0211T2DB20G2	Yes	G	26.6 x 13.2 x 12.4	114.6	\$14,445	V1G (V1)

Notes:

1) ND (Normal Duty) / VT (Variable Torque): 110% overload for 60 seconds; HD (Heavy Duty) / CT (Constant Torque): 150% overload for 60 seconds.

2) "HP" rating based on WEG W22 motors "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Frame size A to D are rated for 50°C.

5) Frame size E needs to have firmware version 3.7x or higher to be used as ND. Frame size E is rated for 40°C if used as ND/VT and 50°C if used as HD/CT.

Frame size F is rated for 40°C. Frame size G is rated for 45°C. CFW500 Frame size F and G VFDs have built in Dual DC Bus Chokes.

CFW500 – IP20 – G2 (GENERATION 2)

IP20 Finger Safe Enclosure

Motor Voltage	ND / VT¹		HD / CT¹		Catalog Number	Braking Transistor	Frame Size⁴	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP²	Drive Amps³	Motor HP²	Drive Amps³							
460 VAC / Three-Phase	Input Power Supply: Three-Phase 380–480 VAC										
	1/2	1.0	1/2	1.0	CFW500A01P0T4NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$582	V1G (V1)
	1	1.6	1	1.6	CFW500A01P6T4NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$604	V1G (V1)
	1 1/2	2.6	1 1/2	2.6	CFW500A02P6T4NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$649	V1G (V1)
	3	4.3	3	4.3	CFW500A04P3T4NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$799	V1G (V1)
	3	6.1	3	6.1	CFW500A06P1T4NB20G2	No	A	7.5 x 3.0 x 5.9	1.8	\$982	V1G (V1)
	1 1/2	2.6	1 1/2	2.6	CFW500B02P6T4DB20G2	Yes	B	7.9 x 4.0 x 6.3	2.6	\$708	V1G (V1)
	3	4.3	3	4.3	CFW500B04P3T4DB20G2	Yes	B	7.9 x 4.0 x 6.3	2.6	\$892	V1G (V1)
	5	6.5	5	6.5	CFW500B06P5T4DB20G2	Yes	B	7.9 x 4.0 x 6.3	2.6	\$1,067	V1G (V1)
	7 1/2	10	7 1/2	10	CFW500B10P0T4DB20G2	Yes	B	7.9 x 4.0 x 6.3	2.6	\$1,207	V1G (V1)
	10	14	10	14	CFW500C14P0T4DB20G2	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,495	V1G (V1)
	10	16	10	16	CFW500C16P0T4DB20G2	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,684	V1G (V1)
	15	24	15	24	CFW500D24P0T4DB20G2	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,229	V1G (V1)
	20/25	31	20/25	31	CFW500D31P0T4DB20G2	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,783	V1G (V1)
	30⁵	45⁵	30	39	CFW500E39P0T4DB20G2⁵	Yes	E	13.8 x 8.7 x 7.6	22.1	\$3,346	V1G (V1)
	40⁵	58.5⁵	40	49	CFW500E49P0T4DB20G2⁵	Yes	E	13.8 x 8.7 x 7.6	22.1	\$4,214	V1G (V1)
	50/60	77	50	61	CFW500F77P0T4DB20G2	Yes	F	21.6 x 11.8 x 10	57.3	\$5,700	V1G (V1)
	75	88	60	73	CFW500F88P0T4DB20G2	Yes	F	21.6 x 11.8 x 10	57.3	\$7,300	V1G (V1)
	75	105	75	88	CFW500F0105T4DB20G2	Yes	F	21.6 x 11.8 x 10	57.3	\$8,900	V1G (V1)
	100/125	142	100	115	CFW500G0142T4NB20G2	No	G	26.6 x 13.2 x 12.4	114.6	\$10,200	V1G (V1)
	150	180	125	142	CFW500G0180T4NB20G2	No	G	26.6 x 13.2 x 12.4	114.6	\$12,500	V1G (V1)
	175	211	150	180	CFW500G0211T4NB20G2	No	G	26.6 x 13.2 x 12.4	114.6	\$14,500	V1G (V1)
	100/125	142	100	115	CFW500G0142T4DB20G2	Yes	G	26.6 x 13.2 x 12.4	114.6	\$10,915	V1G (V1)
	150	180	125	142	CFW500G0180T4DB20G2	Yes	G	26.6 x 13.2 x 12.4	114.6	\$13,375	V1G (V1)
	175	211	150	180	CFW500G0211T4DB20G2	Yes	G	26.6 x 13.2 x 12.4	114.6	\$15,515	V1G (V1)
575 VAC / Phase⁶	Input Power Supply: Three-Phase 500–600 VAC										
	1 1/2	1.7	1 1/2	1.7	CFW500C01P7T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$910	V1G (V1)
	3	3.0	3	3.0	CFW500C03P0T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$954	V1G (V1)
	3	4.3	3	4.3	CFW500C04P3T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,073	V1G (V1)
	7 1/2	7.0	7 1/2	7.0	CFW500C07P0T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,276	V1G (V1)
	10	10.0	10	10.0	CFW500C10P0T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,621	V1G (V1)
	10	12.0	10	12.0	CFW500C12P0T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,813	V1G (V1)

Notes:

1) ND (Normal Duty) / VT (Variable Torque): 110% overload for 60 seconds; HD (Heavy Duty) / CT (Constant Torque): 150% overload for 60 seconds.

2) "HP" rating based on WEG W22 motors "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Frame size A to D are rated for 50°C.

5) Frame size E needs to have firmware version 3.7x or higher to be used as ND. Frame size E is rated for 40°C if used as ND/VT and 50°C if used as HD/CT.

Frame size F is rated for 40°C. Frame size G is rated for 45°C. CFW500 Frame size F and G VFDs have built in Dual DC Bus Chokes.

6) All 575V drives are non-stocked items and are still Generation-1 drives, consult WEG for availability.

Variable Frequency Drives



CFW500-G2 Series

CFW500 – N4X/IP66 Washdown VFD W/O Disconnect Switch

Motor Voltage	ND/VT¹		HD/CT¹		Catalog Number	Braking Transistor	Frame Size⁴	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)	
	Motor HP²	Drive Amps³	Motor HP²	Drive Amps³								
230 VAC / Three-Phase	Input Power Supply: Single or Three-Phase 200–240 VAC											
	1/3	1.6	1/3	1.6	CFW500A01P6B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$775	V1W (V1)	
	3/4	2.6	3/4	2.6	CFW500A02P6B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$800	V1W (V1)	
	1 1/2	4.3	1 1/2	4.3	CFW500A04P3B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$850	V1W (V1)	
	2	7.3	2	7.3	CFW500A07P3B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,015	V1W (V1)	
	3	10	3	10	CFW500A10P0B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,095	V1W (V1)	
	Input Power Supply: Three-Phase 200–240 VAC											
	5	16	5	16	CFW500A16P0T2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,350	V1W (V1)	
	7 1/2	24	7 1/2	24	CFW500B24P0T2DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$1,950	V1W (V1)	
	10	28	10	28	CFW500B28P0T2DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,275	V1W (V1)	
	10	33	10	33	CFW500B33P0T2DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,675	V1W (V1)	
	15	47	15	47	CFW500C47P0T2DB66G2	Yes	C	18.7 x 12.6 x 11.4	45.0	\$3,750	V1W (V1)	
	25	70	20	56	CFW500C56P0T2DB66G2	Yes	C	18.7 x 12.6 x 11.4	45.0	\$4,400	V1W (V1)	
460 VAC / Three-Phase	Input Power Supply: Three-Phase 380–480 VAC											
	1/2	1	1/2	1	CFW500A01P0T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$950	V1W (V1)	
	1	1.6	1	1.6	CFW500A01P6T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$975	V1W (V1)	
	1 1/2	2.6	1 1/2	2.6	CFW500A02P6T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$990	V1W (V1)	
	3	4.3	3	4.3	CFW500A04P3T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,175	V1W (V1)	
	5	6.5	5	6.5	CFW500A06P5T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,400	V1W (V1)	
	7 1/2	10	7 1/2	10	CFW500A10P0T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,650	V1W (V1)	
	10	14	10	14	CFW500B14P0T4DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,050	V1W (V1)	
	10	16	10	16	CFW500B16P0T4DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,275	V1W (V1)	
	15	24	15	24	CFW500B24P0T4DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$3,025	V1W (V1)	
	25	31	25	31	CFW500B31P0T4DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$3,650	V1W (V1)	
	30	45	30	39	CFW500C39P0T4DB66G2	Yes	C	18.7 x 12.6 x 11.4	45.0	\$4,795	V1W (V1)	
	50	59.2	40	49	CFW500C49P0T4DB66G2	Yes	C	18.7 x 12.6 x 11.4	45.0	\$6,100	V1W (V1)	
575 VAC / Three-Phase ⁵	Input Power Supply: Three-Phase 500–600 VAC											
	1 1/2	1.7	1 1/2	1.7	CFW500B01P7T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$1,590	V1W (V1)	
	3	3	3	3	CFW500B03P0T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$1,670	V1W (V1)	
	3	4.3	3	4.3	CFW500B04P3T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$1,890	V1W (V1)	
	7 1/2	7	7 1/2	7	CFW500B07P0T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,115	V1W (V1)	
	10	10	10	10	CFW500B10P0T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,330	V1W (V1)	
	10	12	10	12	CFW500B12P0T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,615	V1W (V1)	

Notes:

1) ND (Normal Duty) / VT (Variable Torque): 110% overload for 60 seconds; HD (Heavy Duty) / CT (Constant Torque): 150% overload for 60 seconds.

2) “HP” rating based on WEG W22 motors “average FLA values.” Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Frame size A, B and C are rated for 40°C ambient temperature.

5) All 575V drives are non-stocked items and are still Generation-1 drives, consult WEG for availability.

CFW500 – N4X/IP66 Washdown VFD With Disconnect Switch

Motor Voltage	ND/VT ¹		HD/CT ¹		Catalog Number	Braking Transistor	Frame Size ⁴	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC / Three-Phase	Input Power Supply: Single or Three-Phase 200–240 VAC										
	1/3	1.6	1/3	1.6	CFW500A01P6B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$895	V1W (V1)
	3/4	2.6	3/4	2.6	CFW500A02P6B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$920	V1W (V1)
	1 1/2	4.3	1 1/2	4.3	CFW500A04P3B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$980	V1W (V1)
	2	7.3	2	7.3	CFW500A07P3B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,170	V1W (V1)
	3	10	3	10	CFW500A10P0B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,255	V1W (V1)
	Input Power Supply: Three-Phase 200–240 VAC										
	5	16	5	16	CFW500A16P0T2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,555	V1W (V1)
	7 1/2	24	7 1/2	24	CFW500B24P0T2DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,245	V1W (V1)
	10	28	10	28	CFW500B28P0T2DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,620	V1W (V1)
	10	33	10	33	CFW500B33P0T2DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$3,080	V1W (V1)
	15	47	15	47	CFW500C47P0T2DB66DSG2	Yes	C	18.7 x 12.6 x 12.4	45.0	\$4,313	V1W (V1)
	25	70	20	56	CFW500C56P0T2DB66DSG2	Yes	C	18.7 x 12.6 x 12.4	45.0	\$5,060	V1W (V1)
460 VAC / Three-Phase	Input Power Supply: Three-Phase 380–480 VAC										
	1/2	1	1/2	1	CFW500A01P0T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,095	V1W (V1)
	1	1.6	1	1.6	CFW500A01P6T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,125	V1W (V1)
	1 1/2	2.6	1 1/2	2.6	CFW500A02P6T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,140	V1W (V1)
	3	4.3	3	4.3	CFW500A04P3T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,350	V1W (V1)
	5	6.5	5	6.5	CFW500A06P5T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,610	V1W (V1)
	7 1/2	10	7 1/2	10	CFW500A10P0T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,900	V1W (V1)
	10	14	10	14	CFW500B14P0T4DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,360	V1W (V1)
	10	16	10	16	CFW500B16P0T4DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,620	V1W (V1)
	15	24	15	24	CFW500B24P0T4DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$3,480	V1W (V1)
	25	31	25	31	CFW500B31P0T4DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$4,200	V1W (V1)
	30	45	30	39	CFW500C39P0T4DB66DSG2	Yes	C	18.7 x 12.6 x 12.4	45.0	\$5,514	V1W (V1)
	50	59.2	40	49	CFW500C49P0T4DB66DSG2	Yes	C	18.7 x 12.6 x 12.4	45.0	\$7,015	V1W (V1)
575 VAC / Three-Phase ⁵	Input Power Supply: Three-Phase 500–600 VAC										
	1 1/2	1.7	1 1/2	1.7	CFW500B01P7T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$1,830	V1W (V1)
	3	3	3	3	CFW500B03P0T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$1,925	V1W (V1)
	3	4.3	3	4.3	CFW500B04P3T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,175	V1W (V1)
	7 1/2	7	7 1/2	7	CFW500B07P0T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,435	V1W (V1)
	10	10	10	10	CFW500B10P0T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,680	V1W (V1)
	10	12	10	12	CFW500B12P0T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$3,005	V1W (V1)

Notes:

1) ND (Normal Duty) / VT (Variable Torque): 110% overload for 60 seconds; HD (Heavy Duty) / CT (Constant Torque): 150% overload for 60 seconds.

2) "HP" rating based on WEG W22 motors "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Frame size A, B and C are rated for 40°C ambient temperature.

5) All 575V drives are non-stocked items and are still Generation-1 drives, consult WEG for availability.

Variable Frequency Drives



CFW500-G2 Series

Options & Accessories

Type	Catalog Number	Description	Approx. Shpg. Wt. (lbs)	List Price	Multiple New (old)
I/O	CFW500-IOS¹	CFW500 I/O Module; 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 1 RS485, 10 VDC, 24 VDC	0.2	\$110	V1G (V1)
I/O	CFW500-IOD	CFW500 I/O Module; 8 DI, 1 AI, 1 AO, 1 DOR, 4 DOT, 1 RS485, 10 VDC, 24 VDC	0.2	\$141	V1G (V1)
I/O	CFW500-IOAD	CFW500 I/O Module; 6 DI, 3 AI, 2 AO, 1 DOR, 3 DOT, 1 RS485, 10 VDC, 24 VDC	0.2	\$182	V1G (V1)
I/O	CFW500-IOR-B	CFW500 I/O Module; 5 DI, 1 AI, 1 AO, 4 DOR, 1 DOT, 1 RS485, 10 VDC, 24 VDC	0.2	\$125	V1G (V1)
Encoder Input	CFW500-ENC	CFW500 Encoder Module; Quad Input A and B, 1 RS485, 5 DI, 1 AI, 1 AO, 3 DOR, 1 DOT, 24 VDC	0.2	\$210	V1G (V1)
USB Card	CFW500-CUSB	CFW500 Comm. Module; 1 USB, 1 RS485, 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 10VDC, 24VDC	0.2	\$210	V1G (V1)
RS232 Card	CFW500-CRS232	CFW500 Comm. Module; 1 RS232, 1 RS485, 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 24 VDC	0.2	\$138	V1G (V1)
RS485 Card	CFW500-CRS485-B	CFW500 Comm. Module; 2 RS485, 4 DI, 2 AI, 1 AO, 2 DOR, 1 DOT, 10 VDC, 24 VDC	0.2	\$143	V1G (V1)
CANopen Card	CFW500-CCAN	CFW500 Comm. Module; 1 CAN/DeviceNet, 1 RS485, 2 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 10 VDC, 24 VDC	0.2	\$138	V1G (V1)
Profibus DP Card	CFW500-CPDP	CFW500 Comm. Module; 2 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 1 Profibus DP, 1 RS485, 24 VDC (DB9 connector)	0.2	\$405	V1G (V1)
Profibus DP and DP-V1 Module	CFW500-CPDP2	CFW500 Comm. Module; 1-Profibus DP and DP-V1 100BASE TX RJ-45 Port, 1-RS485, 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 24 VDC (Terminal Block Connector)	0.2	\$445	V1G (V1)
Modbus TCP Comm. Module	CFW500-CEMB-TCP	CFW500 Comm. Module; 1-Modbus TCP 100BASE TX RJ-45 Port, 1-RS485, 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 24 VDC	0.2	\$499	V1G (V1)
ProfiNet I/O Comm. Module	CFW500-CEPN-IO	CFW500 Comm. Module; 1-ProfiNet I/O 100BASE TX RJ-45 Port, 1-RS485, 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 24 VDC	0.2	\$499	V1G (V1)
EtherNet IP Comm. Module	CFW500-CETH-IP	CFW500 Comm. Module; 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 1-RS485, 1-EtherNet IP 100BASE TX RJ-45 Port, 24 VDC	0.2	\$499	V1G (V1)
Dual Port Ethernet Module (Ethernet/IP or Modbus TCP)	CFW500-CETH2	CFW500 Dual Port Comm. Module: 2-DI, 1-AI, 1-DOT, 1-RS485, 2-EtherNet 100BASE TX RJ-45 Ports. Notes: The module will require external 24 VDC power to use 1-DOT. The CFW500-G2 drive must have FM V3.9x or above to use this module.	0.3	\$575	V1G (V1)
STO Module	CFW500-SFY2²	CFW500 Safety Function Module; Safe Torque Off (STO) / Stop Category 0, Safe Stop 1 Time Controlled (SS1-t) / Stop Category 1; Safety Category: SIL 3, PL e	1.8	\$140	V1G (V1)
STO Module Plug	CFW50X-STO-JMP	CFW50x STO module plug	0.2	\$12	PTD
Flash Memory Module	CFW500-MMF	CFW500 Flash Memory Module for saving and reloading program and parameters to / from the drive.	0.2	\$189	V1G (V1)
Remote Keypad: Non Text	CFW500-HMIR³	CFW500 Remote non-text Keypad for mounting through enclosure door (Mounting Frame Kit is not required).	0.6	\$169	V1G (V1)
Remote Keypad: Advanced Text	HMI-01⁴	CFW500 Remote Advanced Text Keypad for mounting through enclosure door (Mounting Frame Kit is required).	0.4	\$205	V1G (V1)
Remote Keypad: Advanced Text Frame Kit	CFW500-RHMIF	CFW500 Remote Advanced Text Keypad enclosure door mounting frame kit	0.5	\$25	V1G (V1)
HMI Cable 1M	CFW500-CCHMIR01M	3.3 ft (1 m) Remote Keypad Cable	0.5	\$23	V1G (V1)
HMI Cable 2M	CFW500-CCHMIR02M	6.6 ft (2 m) Remote Keypad Cable	0.7	\$31	V1G (V1)
HMI Cable 3M	CFW500-CCHMIR03M	9.9 ft (3 m) Remote Keypad Cable	1.0	\$41	V1G (V1)
HMI Cable 5M	CFW500-CCHMIR05M	16 ft (5 m) Remote Keypad Cable	1.2	\$51	V1G (V1)
HMI Cable 7.5M	CFW500-CCHMIR075M	25 ft (7.5 m) Remote Keypad Cable	1.5	\$61	V1G (V1)
HMI Cable 10M	CFW500-CCHMIR010M	33 ft (10 m) Remote Keypad Cable	2.0	\$72	V1G (V1)
NEMA 1 Conduit Kit	CFW500-KN1A	NEMA 1 kit: Frame Size A	2.0	\$28	V1G (V1)
NEMA 1 Conduit Kit	CFW500-KN1B	NEMA 1 kit: Frame Size B	3.0	\$33	V1G (V1)
NEMA 1 Conduit Kit	CFW500-KN1C	NEMA 1 kit: Frame Size C	3.0	\$44	V1G (V1)
NEMA 1 Conduit Kit	CFW500-KN1D	NEMA 1 kit: Frame Size D	3.0	\$59	V1G (V1)
NEMA 1 Conduit Kit	CFW500-KN1E	NEMA 1 kit: Frame Size E	6.0	\$64	V1G (V1)
NEMA 1 Conduit Kit	CFW500-KN1F	NEMA 1 kit: Frame Size F	12.0	\$165	V1G (V1)
NEMA 1 Conduit Kit	CFW500-KN1G	NEMA 1 kit: Frame Size G	17.0	\$215	V1G (V1)
Cable Shield Clamp Kit	CFW500-KPCSA	Cable Shield Clamp Kit for Frame A	1.0	\$41	V1G (V1)
Cable Shield Clamp Kit	CFW500-KPCSB	Cable Shield Clamp Kit for Frame B	1.0	\$44	V1G (V1)
Cable Shield Clamp Kit	CFW500-KPCSC	Cable Shield Clamp Kit for Frame C	1.1	\$46	V1G (V1)
Cable Shield Clamp Kit	CFW500-KPCSD	Cable Shield Clamp Kit for Frame D	1.1	\$51	V1G (V1)
Cable Shield Clamp Kit	CFW500-KPCSE	Cable Shield Clamp Kit for Frame E	6.0	\$64	V1G (V1)
Cable Shield Clamp Kit	CFW500-KPCSF	Cable Shield Clamp Kit for Frame F	15.0	\$140	V1G (V1)
Cable Shield Clamp Kit	CFW500-KPCSG	Cable Shield Clamp Kit for Frame G	18.0	\$180	V1G (V1)
CFW500 Demo Suitcase	CFW500-DEMO-BLK	CFW500 Black Demo Suitcase with Remote Text keypad and STO Module	45.0	\$5,585	V1G (V1)

Notes:

- 1) The "CFW500-IOS" module is included as standard with CFW500-IP20 and IP66 Drives.
- 2) The "CFW500-SFY2" Module can be installed in the CFW500-IP20 and IP66 drives in addition to the "CFW500-IOS" or any other I/O or communication module. The "CFW500-SFY2" module only works with 230V and 460 VAC, CFW500-G2 (GENERATION 2) drives. For CFW500-IP20, Frame-A to E VFDs, the NEMA 1 Kit top cover to protect the VFD from falling dust can not be used if the "CFW500-SFY2" is installed on the drive.
- 3) The "CFW500-HMIR" Remote Keypad (Non-Text) requires Qty. (1) CFW500-CCHIR0xM cable. ("x" represents the cable length in meters)
- 4) The "HMI-01" remote Keypad (Advanced Text) requires Qty. (1) CFW500-RHMIF and Qty. (1) CFW500-CCHIR0xM cable. ("x" represents the cable length in meters). This keypad only works with 230 VAC and 460 VAC, CFW500-G2 (GENERATION 2) drives.

Option Card I/O Table

CFW500 Option Module	DI ¹	AI	AO	DOR	DOT	Infrared	Encoder	USB	RS232	RS485	CANopen / DeviceNet	Profibus-DP / DP V1	Modbus TCP	ProfiNet I/O	EtherNet I/P
CFW500-IOS ¹	4	1	1	1	1					1					
CFW500-IOD	8	1	1	1	4					1					
CFW500-IOAD	6	3	2	1	3					1					
CFW500-IOR / CFW500-IOR-B	5	1	1	4	1	1				1					
CFW500-ENC	5	1	1	3	1		1			1					
CFW500-CUSB	4	1	1	1	1			1		1					
CFW500-CRS232	4	1	1	1	1				1	1					
CFW500-CRS485-B	4	2	1	2	1					2					
CFW500-CCAN	2	1	1	1	1					1	1				
CFW500-CPDP	2	1	1	1	1					1		1			
CFW500-CPDP2	2	1	1	1	1					1		1			
CFW500-CEMB-TCP	2	1	1	1	1					1			1		
CFW500-CEPN-IO	2	1	1	1	1					1				1	
CFW500-CETH-IP	2	1	1	1	1					1					1
CFW500-CETH2	2	1			1					1			1		1

Notes:

1) The CFW500 VFD comes standard with "CFW500-IOS" Module. To use any of the above listed optional module, the CFW500-IOS module needs to be removed from the drive. In that case, the number of I/Os will depend on the I/O or communication module being used.

CFW500-G2 Series

Technical Data

Power Rating	Power Supply	Tolerance: -15 to +10%
		Frequency: 50/60 Hz (48 Hz to 62 Hz)
		Phase imbalance: ≤ 3% of the rated phase-phase input voltage
		Transient voltages and overvoltages according to Category III (EN 61010/UL 508C)
		Maximum of 10 (line) connections per hour (1 every 6 minutes)
Control	Method	V/f (scalar)
		Voltage Vector WEG (VWV)
	Output Frequency	0–500 Hz, resolution of 0.015 Hz
Performance	V/f Control	Speed regulation: 1% of the rated speed (with slip compensation) Speed variation range: 1:20
	Vector Control (VWV)	Speed regulation: 1% of the rated speed Speed variation range: 1:30
	Sensorless	Speed regulation: 0.5% of the rated speed Speed variation range: 1:100
	Vector Control with Encoder	Speed regulation: 0.1% of the rated speed Speed variation range: 1:100
	PM VWV Control	Regulation: 0.1 % of the rated speed Speed variation range: 1:20
	Temperature around the CFW500	14°F to 122°F (-10°C to 50°C): IP20 (sizes A to E) 14°F to 104°F (-10°C to 40°C): IP20 (sizes A to E) when installed side by side 14°F to 104°F (-10°C to 40°C): NEMA 1 (sizes A to E) 14°F to 104°F (-10°C to 40°C): IP20, NEMA 1 (size F) 14°F to 113°F (-10°C to 45°C): IP20, NEMA 1 (size G) 14°F to 104°F (-10°C to 40°C): IP66 (sizes A & B) For CFW500-IP20-Frame A to E & CFW500-IP66-Frame A & B, when operating temperatures are above the specification, it is necessary to apply 2% of current derating for each Celsius degree (°C), limited to an increase of 10°C. For CFW500-IP20-Frame F & G, when operating temperatures are above the specification, it is necessary to apply 1% of current derating for each Celsius degree (°C) up to 50°C, and 2% up to 60°C (maximum).
Environment Conditions	Aggressive Environments	Protection Class 3C2: Standard coating on the internal circuits, according to IEC 60721-3-3 (standard model)
	Relative Air Humidity	Protection Class 3C3: Extra coating (optional), in accordance with IEC 60721-3-3
	Altitude	5–95% Non-condensing
	Pollution Degree	Up to 1,000 m (maximum altitude under normal conditions) 1,000–4,000 m: current derating of 1% for each 100 m above 1,000 m of altitude
		2 (EN 50178 and UL 508C), with non-conductive pollution Condensation must not cause conduction of the accumulated residues
Inputs¹	Analog	One (1) isolated input: Levels (0–10) V or (0–20) mA or (4–20) mA Linearity error ≤ 0.25% Impedance: 100 kΩ for voltage input, 500 Ω for current input Programmable functions, including PTC input Maximum voltage accepted in the inputs: 30 VDC
	Digital	Four (4) isolated inputs Programmable functions: Active high (PNP): maximum low level of 15 VDC; minimum high level of 20 VDC Active low (NPN): maximum low level of 5 VDC; minimum high level of 9 VDC Maximum input voltage of 30 VDC Input current: 4.5 mA Maximum input current: 5.5 mA
Outputs¹	Analog	One (1) isolated output. Levels (0–10) V or (0–20) mA or (4–20) mA Linearity error ≤ 0.25% Programmable functions RL ≥ 10 kΩ (0–10 V) or RL ≤ 500 Ω (0–20 mA / 4–20 mA)
	Relay	One (1) relay with NO/NC contact Maximum voltage: 240 VAC Maximum current of 0.5 A Programmable functions
	Transistor	One (1) isolated open sink digital output (using as reference the 24 VDC power supply) Maximum current of 150 mA (maximum capacity of the 24 VDC power supply)² Programmable functions
	Power Supply	24 VDC power supply. Maximum capacity: 150 mA² Power supply of 10 VDC Maximum capacity: 2 mA
Communication	Selectable Plug-In	Standard Communication: One (1) RS485 (Modbus RTU / BACnet) Port. Optional: CANopen, DeviceNet, Profibus-DP, EtherNet/IP, Modbus TCP, ProfiNet IO, USB, RS485 (two Ports) and RS232 port
Safety	Protection	Phase-phase overcurrent/short circuit in the output Phase-ground overcurrent/short circuit in the output Undervoltage/overvoltage in the power Overtemperature of the heatsink Motor overload Overload on the power module (IGBTs) External fault / alarm Programming error
Operating Interface (keypad)	Standard (Built in the CFW500)	Nine (9) keys: Run/Stop, Increment, Decrement, Direction of rotation, Jog, Local/Remote, Back/Esc and Enter/Menu LCD Display It allows accessing/changing all the parameters Accuracy of the indications: Current: 5% of the rated current Speed resolution: 0.1 Hz
Protection Degree	IP20	Sizes A, B, C, D, E, F and G
	NEMA 1	Sizes A, B, C, D, E, F and G with NEMA 1 kit
	IP66/NEMA 4X (Indoor/Outdoor)	Sizes A and B

Notes:
1) The number and/or types of analog/digital inputs/outputs may vary according to the plug-in module (accessory) used. In the table above, the standard plug-in module (CFW500-IOS) was taken into account. For further information, refer to the CFW500 user manual.
2) The maximum capacity of 150 mA considers the load of the 24 V power supply plus the transistor output, that is, the sum of the consumption of both must not exceed 150 mA.

Technical Data

Standards	Safety Standards	UL 508C: Power conversion equipment
		UL 840: Insulation coordination including clearances and creepage distances for electrical equipment
		EN 61800-5-1: Safety requirements electrical, thermal and energy
		EN 50178: Electronic equipment for use in power installations
		EN 60204-1: Safety of machinery. Electrical equipment of machines. Part 1: general requirements Notes: In order to have a machine in accordance with this standard, the manufacturer of the machine is responsible for installing an emergency stop device and a device for disconnection from the power line.
		EN 60146 (IEC 146): Semiconductor converters
		EN 61800-2: Adjustable speed electrical power drive systems – Part 2: general requirements – Rating specifications for low voltage adjustable frequency AC power drive systems.
	Electromagnetic Compatibility Standards	EN 61800-3: Adjustable speed electrical power drive systems – Part 3: EMC product standard including specific test methods.
		EN 55011: Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment
		CISPR 11: Industrial, scientific and medical (ISM) radio-frequency equipment Electromagnetic disturbance characteristics: Limits and methods of measurement
		EN 61000-4-2: Electromagnetic compatibility (EMC). Part 4: testing and measurement techniques. Section 2: electrostatic discharge immunity test.
		EN 61000-4-3: Electromagnetic compatibility – Part 4: testing and measurement techniques – Section 3: radiated, radio-frequency, electromagnetic field immunity test
		EN 61000-4-4: Electromagnetic compatibility – Part 4: testing and measurement techniques – Section 4: electrical fast transient/burst immunity test
		EN 61000-4-5: Electromagnetic compatibility – Part 4: testing and measurement techniques – Section 5: surge immunity test
		EN 61000-4-6: Electromagnetic compatibility – Part 4: testing and measurement techniques – Section 6: immunity to conducted disturbances, induced by radio-frequency fields
	Mechanical Construction Standards	EN 60529: Degrees of protection provided by enclosures (IP code)
		UL 50: Enclosures for electrical equipment
		IEC60721-3-3: Classification of environmental conditions – Part 3: classification of groups of environmental parameters and their severities – Section 3: stationary use at weather protected locations level 3M4.



Dynamic Braking Resistors for CFW500-G2

CFW500-G2-IP20

**Dynamic Braking Resistors – 100% Braking Torque at 20% Duty Cycle
(12 Seconds Maximum Braking Time) – NEMA 1 Enclosure**

Motor Voltage	Motor HP (ND)	CFW500 Catalog Number	Braking Resistor Catalog Number	Rated Ohms	Rated Watts	Dimensions (in) H x W x D ¹	List Price	Multiplier New (old)
230 VAC	2	CFW500B07P3B2DB20G2	CFDB2-63-448	63	500	5 x 12 x 7	\$825	GA (V1)
	3	CFW500B10P0B2DB20G2	CFDB2-38-746	38	920	5 x 12 x 10	\$1,025	GA (V1)
	5	CFW500B16P0T2DB20G2	CFDB2-26-1119	26	1,170	5 x 12 x 13	\$1,225	GA (V1)
	7 1/2	CFW500C24P0T2DB20G2	CFDB2-19-1492	19	1,676	5 x 12 x 16	\$1,430	GA (V1)
	10	CFW500D28P0T2DB20G2	CFDB2-13-2238	12.6	2,580	5 x 19 x 10	\$1,775	GA (V1)
	10	CFW500D33P0T2DB20G2	CFDB2-10-2984	9.6	3,387	5 x 19 x 10	\$1,775	GA (V1)
	15	CFW500D47P0T2DB20G2	CFDB2-10-2984	9.6	3,387	5 x 19 x 10	\$1,775	GA (V1)
	25	CFW500E56P0T2DB20G2	CFDB2-7-4476	6.3	5,001	5 x 26.5 x 13	\$2,780	GA (V1)
	25	CFW500F77P0T2DB20G2	CFDB2-8-3730	7.5	4,214	5 x 19 x 13	\$2,150	GA (V1)
	30	CFW500F88P0T2DB20G2	CFDB2-8-3730	7.5	4,214	5 x 19 x 13	\$2,150	GA (V1)
	40	CFW500F0105T2DB20G2	CFDB2-5-5968	4.9	6,590	5 x 26.5 x 16	\$3,510	GA (V1)
	50	CFW500G0145T2DB20G2	CFDB2-3-11190	2.7	12,150	10 x 28 x 13	\$6,010	GA (V1)
	60	CFW500G0180T2DB20G2	CFDB2-3-11190	2.7	12,150	10 x 28 x 13	\$6,010	GA (V1)
	75	CFW500G0211T2DB20G2	CFDB2-3-11190	2.7	12,150	10 x 28 x 13	\$6,010	GA (V1)
460 VAC	2	CFW500B02P6T4DB20G2	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
	3	CFW500B04P3T4DB20G2	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
	5	CFW500B06P5T4DB20G2	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
	7 1/2	CFW500B10P0T4DB20G2	CFDB2-75-1492	75	1,815	5 x 12 x 16	\$1,430	GA (V1)
	10	CFW500C14P0T4DB20G2	CFDB2-50-2238	50	2,560	5 x 19 x 13	\$1,965	GA (V1)
	10	CFW500C16P0T4DB20G2	CFDB2-50-2238	50	2,560	5 x 19 x 13	\$1,965	GA (V1)
	15	CFW500D24P0T4DB20G2	CFDB2-25-4476	25	5,120	5 x 26.5 x 13	\$2,700	GA (V1)
	20	CFW500D31P0T4DB20G2	CFDB2-19-5968	19	6,703	5 x 26.5 x 16	\$3,155	GA (V1)
	25/30	CFW500E39P0T4DB20G2	CFDB2-10-11190	10	12,800	10 x 28 x 16	\$6,050	GA (V1)
	40	CFW500E49P0T4DB20G2	CFDB2-10-11190	10	12,800	10 x 28 x 16	\$6,050	GA (V1)
	50/60	CFW500F77P0T4DB20G2	CFDB2-15-8952	15	10,002	10 x 28 x 13	\$4,635	GA (V1)
	60/75	CFW500F88P0T4DB20G2	CFDB2-15-8952	15	10,002	10 x 28 x 13	\$4,635	GA (V1)
	75	CFW500F0105T4DB20G2	CFDB2-10-11190	10	12,800	10 x 28 x 16	\$6,050	GA (V1)
	100/125	CFW500G0142T4DB20G2	CFDB2-5-22380	5	25,600	24 x 30 x 18	\$12,655	GA (V1)
	150	CFW500G0180T4DB20G2	CFDB2-5-22380	5	25,600	24 x 30 x 18	\$12,655	GA (V1)
	175	CFW500G0211T4DB20G2	CFDB2-5-22380	5	25,600	24 x 30 x 18	\$12,655	GA (V1)

Notes:

1) Dimensions are provided for estimating purposes only.

CFW500-G2-IP20

Dynamic Braking Resistors – 100% Braking Torque at 50% Duty Cycle
(30 Seconds Maximum Braking Time) – NEMA 1 Enclosure

Motor Voltage	Motor HP (ND)	CFW500 Catalog Number	Braking Resistor Catalog Number	Rated Ohms	Rated Watts	Dimensions (in) H x W x D ¹	List Price	Multiplier New (old)
230 VAC	2	CFW500B07P3B2DB20G2	CFDB5-63-1119	63	1,250	5 x 12 x 10	\$1,225	GA (V1)
	3	CFW500B10P0B2DB20G2	CFDB5-38-1865	38	2,299	5 x 19 x 13	\$1,965	GA (V1)
	5	CFW500B16P0T2DB20G2	CFDB5-26-2798	26	2,925	5 x 26.5 x 13	\$2,700	GA (V1)
	7 1/2	CFW500C24P0T2DB20G2	CFDB5-19-3730	19	4,190	5 x 26.5 x 13	\$2,700	GA (V1)
	10	CFW500D28P0T2DB20G2	CFDB5-13-5595	12.6	6,451	5 x 26.5 x 16	\$3,155	GA (V1)
	10	CFW500D33P0T2DB20G2	CFDB5-10-7460	9.6	8,467	10 x 28 x 13	\$4,990	GA (V1)
	15	CFW500D47P0T2DB20G2	CFDB5-10-7460	9.6	8,467	10 x 28 x 13	\$4,990	GA (V1)
	25	CFW500E56P0T2DB20G2	CFDB5-7-11190	6.3	12,502	10 x 28 x 16	\$5,620	GA (V1)
	25	CFW500F77P0T2DB20G2	CFDB5-8-9325	7.5	10,534	10 x 28 x 13	\$4,990	GA (V1)
	30	CFW500F88P0T2DB20G2	CFDB5-8-9325	7.5	10,534	10 x 28 x 13	\$4,990	GA (V1)
	40	CFW500F0105T2DB20G2	CFDB5-4-18650	3.9	19,500	24 x 30 x 18	\$11,025	GA (V1)
	50	CFW500G0145T2DB20G2	CFDB5-3-27975	2.7	30,375	32 x 30 x 18	\$16,420	GA (V1)
	60	CFW500G0180T2DB20G2	CFDB5-3-27975	2.7	30,375	32 x 30 x 18	\$16,420	GA (V1)
	75	CFW500G0211T2DB20G2	CFDB5-3-27975	2.7	30,375	32 x 30 x 18	\$16,420	GA (V1)
460 VAC	2	CFW500B02P6T4DB20G2	CFDB5-150-1865	150	2,107	5 x 19 x 13	\$1,840	GA (V1)
	3	CFW500B04P3T4DB20G2	CFDB5-150-1865	150	2,107	5 x 19 x 13	\$1,840	GA (V1)
	5	CFW500B06P5T4DB20G2	CFDB5-150-1865	150	2,107	5 x 19 x 13	\$1,840	GA (V1)
	7 1/2	CFW500B10P0T4DB20G2	CFDB5-75-3730	75	4,538	5 x 26.5 x 16	\$3,155	GA (V1)
	10	CFW500C14P0T4DB20G2	CFDB5-38-7460	38	8,379	10 x 28 x 13	\$4,555	GA (V1)
	10	CFW500C16P0T4DB20G2	CFDB5-38-7460	38	8,379	10 x 28 x 13	\$4,555	GA (V1)
	15	CFW500D24P0T4DB20G2	CFDB5-30-9325	30	10,935	10 x 28 x 16	\$5,050	GA (V1)
	20	CFW500D31P0T4DB20G2	CFDB5-25-11190	25	12,800	10 x 28 x 16	\$5,425	GA (V1)
	25/30	CFW500E39P0T4DB20G2	CFDB5-10-27975	10	32,000	32 x 30 x 18	\$15,605	GA (V1)
	40	CFW500E49P0T4DB20G2	CFDB5-10-27975	10	32,000	32 x 30 x 18	\$15,605	GA (V1)
	50/60	CFW500F77P0T4DB20G2	CFDB5-15-22380	15	25,005	24 x 30 x 18	\$10,865	GA (V1)
	60/75	CFW500F88P0T4DB20G2	CFDB5-15-22380	15	25,005	24 x 30 x 18	\$10,865	GA (V1)
	75	CFW500F0105T4DB20G2	CFDB5-8-46625	8	50,700	32 x 30 x 18	\$20,600	GA (V1)
	100/125	CFW500G0142T4DB20G2	CFDB5-5-74600	5	83,790	72 x 30 x 18	\$33,780	GA (V1)
	150	CFW500G0180T4DB20G2	CFDB5-5-74600	5	83,790	72 x 30 x 18	\$33,780	GA (V1)
	175	CFW500G0211T4DB20G2	CFDB5-5-74600	5	83,790	72 x 30 x 18	\$33,780	GA (V1)

Notes:

1) Dimensions are provided for estimating purposes only.

Variable Frequency Drives



Dynamic Braking Resistors for CFW500-G2

CFW500-G2-N4X (IP66)

Dynamic Braking Resistors – 100% Braking Torque at 20% Duty Cycle (12 Seconds Maximum Braking Time) – NEMA 1 Enclosure

Motor Voltage	Motor HP (ND)	CFW500 Catalog Number	Braking Resistor Catalog Number	Rated Ohms	Rated Watts	Dimensions (in) H x W x D ¹	List Price	Multiplier New (old)
230 VAC	1/3	CFW500A01P6B2DB66(DS)G2	CFDB2-190-149	190	167	5 x 12 x 5	\$525	GA (V1)
	3/4	CFW500A02P6B2DB66(DS)G2	CFDB2-190-149	190	167	5 x 12 x 5	\$525	GA (V1)
	1 1/2	CFW500A04P3B2DB66(DS)G2	CFDB2-190-149	190	167	5 x 12 x 5	\$525	GA (V1)
	2	CFW500A07P3B2DB66(DS)G2	CFDB2-63-448	63	500	5 x 12 x 7	\$825	GA (V1)
	3	CFW500A10P0B2DB66(DS)G2	CFDB2-38-746	38	920	5 x 12 x 10	\$1,025	GA (V1)
	5	CFW500A16P0T2DB66(DS)G2	CFDB2-26-1119	26	1,170	5 x 12 x 13	\$1,225	GA (V1)
	7 1/2	CFW500B24P0T2DB66(DS)G2	CFDB2-19-1492	19	1,676	5 x 12 x 16	\$1,430	GA (V1)
	10	CFW500B28P0T2DB66(DS)G2	CFDB2-13-2238	12.6	2,580	5 x 19 x 10	\$1,775	GA (V1)
	10	CFW500B33P0T2DB66(DS)G2	CFDB2-10-2984	9.6	3,387	5 x 19 x 10	\$1,775	GA (V1)
	15	CFW500C47P0T2DB66(DS)G2	CFDB2-10-2984	9.6	3387	5 x 19 x 10	\$1,775	GA (V1)
	25	CFW500C56P0T2DB66(DS)G2	CFDB2-7-4476	6.3	5000	5 x 26.5 x 13	\$2,780	GA (V1)
	1/2	CFW500A01P0T4DB66(DS)G2	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
460 VAC	1	CFW500A01P6T4DB66(DS)G2	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
	2	CFW500A02P6T4DB66(DS)G2	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
	3	CFW500A04P3T4DB66(DS)G2	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
	5	CFW 500A06P5T4DB66(DS)G2	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
	7 1/2	CFW500A10P0T4DB66(DS)G2	CFDB2-75-1492	75	1,815	5 x 12 x 16	\$1,430	GA (V1)
	10	CFW500B14P0T4DB66(DS)G2	CFDB2-50-2238	50	2,560	5 x 19 x 13	\$1,965	GA (V1)
	10	CFW500B16P0T4DB66(DS)G2	CFDB2-50-2238	50	2,560	5 x 19 x 13	\$1,965	GA (V1)
	15	CFW500B24P0T4DB66(DS)G2	CFDB2-25-4476	25	5,120	5 x 26.5 x 13	\$2,700	GA (V1)
	25	CFW500B31P0T4DB66(DS)G2	CFDB2-19-5968	19	6,703	5 x 26.5 x 16	\$3,155	GA (V1)
	30	CFW500C39P0T4DB66(DS)G2	CFDB2-10-11190	10	12,800	10 x 28 x 16	\$6,050	GA (V1)
	50	CFW500C49P0T4DB66(DS)G2	CFDB2-10-11190	10	12,800	10 x 28 x 16	\$6,050	GA (V1)

Notes:

1) Dimensions are provided for estimating purposes only.

INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM



CFW11 Series – Frequency Inverter

WEG's CFW11 uses state-of-the-art technology to control motors up to 1,000 HP. Aimed at increasing customers productivity, the CFW11 offers the following innovations.

Standard Features

- Same programming as all other WEG VFDs
- Plug-and-play philosophy (connect and use) enables quick and easy installation of accessories and options
- USB for microcomputer connection for using SuperDrive programming and monitoring software as well as updating inverter firmware
- Human-Machine Interface (HMI) with back-lit graphic display and soft-keys, greatly facilitates inverter programming and operation.
- DC link inductors (symmetrically connected to positive and negative DC link terminals) enable compliance with IEC61000-3-12 standard requirements regarding harmonics, (no need for external line reactance).
- Intelligent thermal management enables full protection of IGBTs, monitoring of heatsink and internal air temperature.
- Conformal-coated circuit boards
- 50°C Ambient temperature
- Automatic control of the heatsink fan with speed sensor (additional protection) and easily detachable from the unit for cleaning and maintenance.
- Normal Duty and Heavy Duty ratings to adapt optimally to all kinds of loads
- Protection with failure and alarm warnings
- Motor overload protection in compliance with IEC 60947-4-2, UL 508 C
- Memory card built into the standard product allows user to create functions without the need to use an external PLC (soft-PLC via IEC61131-3 programming software)
- Guided start-up simplifies initial user programming
- Real-time clock with time and date stamped fault log TRACE / SCOPE function to assist with the start-up and system diagnostics
- SuperDrive G2 compatible

Optional Features

- Safety stop in compliance with EN 954-1, Category III¹
- External control feed with 24 VDC
- RFI filter in compliance with EN 61800-3 (internal)¹
- DB resistors and line/load reactors available upon request

Notes:
1) Factory ordered



Applications

- Pumps
- Fans/blowers
- Conveyors
- Compressors
- Agitators and mixers
- Extruders
- Grizzly feeders
- Centrifuges
- Cranes and hoists
- Rollout tables
- Presses
- Saws

CFW11 Catalog Number Sequence

CFW11	0105	T	4	0	N1	DB	Z
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Current Rating

0003 = 3 Amps
0006 = 6 Amps
0010 = 10 Amps
0024 = 24 Amps
0070 = 70 Amps
0105 = 105 Amps
0142 = 142 Amps
0211 = 211 Amps
0312 = 312 Amps
0477 = 477 Amps
0720 = 720 Amps
1141 = 1141 Amps

Supply Phases

S = Single-phase
B = Single-phase or
 Three-phase
T = Three-phase

Supply Voltage

2 = 200–240 VAC
4 = 380–480 VAC
5 = 500–600 VAC
6 = 500–690 VAC

Configuration

S = Standard
O = Options Added

Options

N1 = NEMA 1¹
55 = NEMA 12/IP55
DS = Disconnect Switch
 (only IP55)
DB = Dynamic Brake
NB = No Brake
FA = RFI Filter
NF = No RFI Filter
W = External 24 VDC
Y = Safe Stop (STO)
Z = End of Number

Chart intended as reference only and not to create part numbers.

1) CFW11 Frames F and G and H are IP20 Chassis



CFW11 NEMA 1 VFD



CFW11 NEMA 12 / IP55 VFD

Variable Frequency Drives



CFW11 Series

Drive Ratings

Normal Duty (ND) Cycle

- 110% for 60 seconds every 10 minutes
- 150% for 3 seconds every 10 minutes

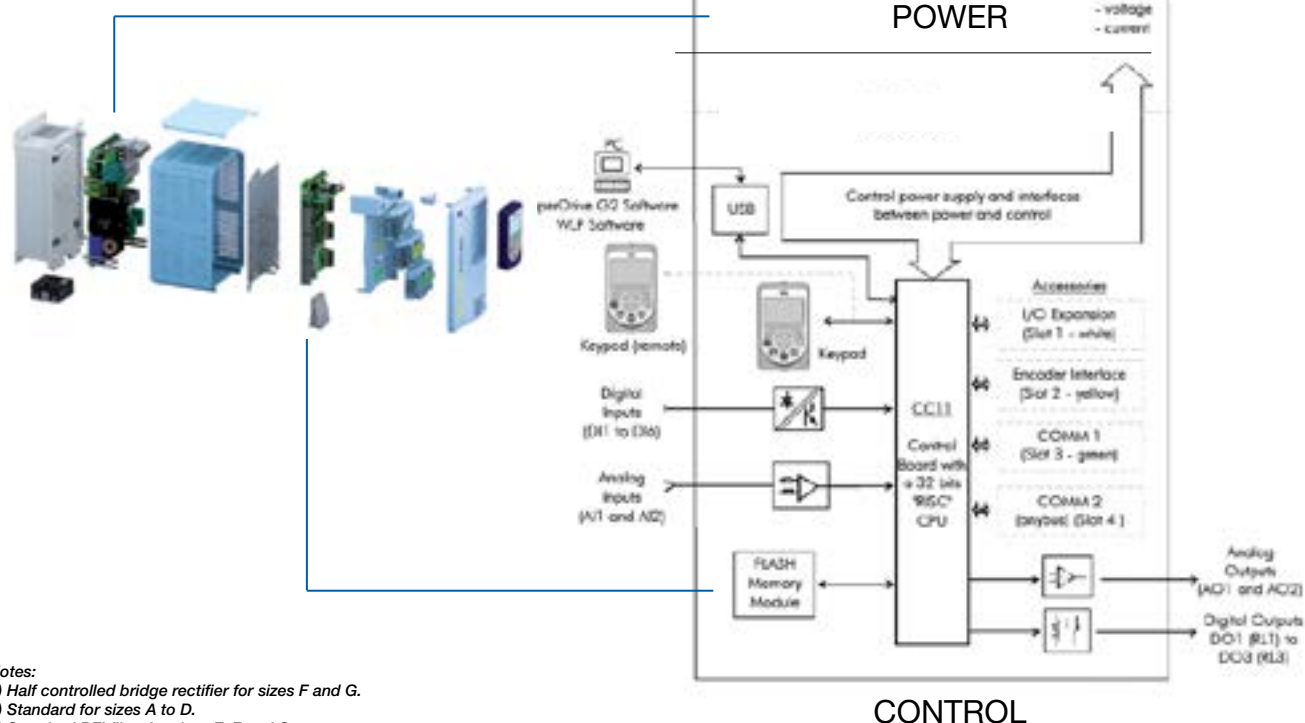
Heavy Duty (HD) Cycle

- 150% for 60 seconds every 10 minutes
- 200% for 3 seconds every 10 minutes



Sizing the Drive

The correct way to select a VFD is to match its output current with the motor rated current. However, the tables in this catalog also present the expected motor horsepower for each VFD model. Use the motor power ratings only as a guide. Motor rated currents may vary with speed and manufacturer. IEC motor powers are based on WEG four-pole motors, NEMA motor powers are based on NEC table 430-150.



Notes:

- 1) Half controlled bridge rectifier for sizes F and G.
- 2) Standard for sizes A to D.
- 3) Standard RFI filter for sizes E, F and G.

Please refer to the user manual for more information.

NEMA 1 Enclosure

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size ^{4,5}	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Single or Three-Phase 200–240 VAC with Dynamic Braking Transistor										
	1 1/2	6.0	1 1/2	5.0	CFW110006B20N1Z	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,644	V1P (V1)
	2	7.0	2	7.0	CFW110007B20N1Z	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,716	V1P (V1)
	Input Power Supply: Single-phase 200–240 VAC with Dynamic Braking Transistor										
	3	10	3	10	CFW110010S20N1Z	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,812	V1P (V1)
	Input Power Supply: Three-Phase 200–240 VAC with Dynamic Braking Transistor										
	2	7.0	1 1/2	5.5	CFW110007T20N1Z	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,620	V1P (V1)
	3	10	2	8.0	CFW110010T20N1Z	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,692	V1P (V1)
	5	13	3	11	CFW110013T20N1Z	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,728	V1P (V1)
	5	16	5	13	CFW110016T20N1Z	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,850	V1P (V1)
	7 1/2	24	7 1/2	20	CFW110024T20N1Z	Yes	B	13.9 x 7.5 x 9.0	23	\$2,424	V1P (V1)
	10	28	10	24	CFW110028T20N1Z	Yes	B	13.9 x 7.5 x 9.0	23	\$2,641	V1P (V1)
	10	34	10	28	CFW110033T20N1Z	Yes	B	13.9 x 7.5 x 9.0	23	\$3,190	V1P (V1)
	15	45	15	36	CFW110045T20N1Z	Yes	C	17.7 x 8.7 x 11.5	46	\$3,641	V1P (V1)
	20	54	20	45	CFW110054T20N1Z	Yes	C	17.7 x 8.7 x 11.5	46	\$4,400	V1P (V1)
	25	70	20	56	CFW110070T20N1Z	Yes	C	17.7 x 8.7 x 11.5	46	\$6,600	V1P (V1)
	30	86	25	70	CFW110086T20N1Z	Yes	D	19.9 x 11.9 x 12.0	75	\$7,222	V1P (V1)
	40	105	30	86	CFW110105T20N1Z	Yes	D	19.9 x 11.9 x 12.0	75	\$9,000	V1P (V1)
	50	142	40	115	CFW110142T20N1DBZ	Yes	E	26.6 x 13.2 x 14.1	144	\$12,720	V1P (V1)
	60	180	50	142	CFW110180T20N1DBZ	Yes	E	26.6 x 13.2 x 14.1	144	\$17,555	V1P (V1)
	75	211	60	180	CFW110211T20N1DBZ	Yes	E	26.6 x 13.2 x 14.1	144	\$24,380	V1P (V1)
	Input Power Supply: Three-Phase 200–240 VAC without Dynamic Braking Transistor										
	50	142	40	115	CFW110142T20N1Z	No	E	26.6 x 13.2 x 14.1	144	\$11,649	V1P (V1)
	60	180	50	142	CFW110180T20N1Z	No	E	26.6 x 13.2 x 14.1	144	\$15,125	V1P (V1)
	75	211	60	180	CFW110211T20N1Z	No	E	26.6 x 13.2 x 14.1	144	\$21,560	V1P (V1)

Notes:

1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Frame A to D: Maximum 50°C ambient temperature without derating. Frame E: Maximum 45°C ambient temperature without derating.

5) Frame A to E: Approx. 6% impedance Dual DC Bus chokes.



Variable Frequency Drives

CFW11 Series

NEMA 1 Enclosure

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size ^{4,5}	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
460 VAC	Input Power Supply: Three-Phase 380–480 VAC with Dynamic Braking Transistor										
	2	3.6	2	3.6	CFW110003T40N1Z	Yes	A	12.1 x 5.8 x 9.0	22	\$1,616	V1P (V1)
	3	5.0	3	5.0	CFW110005T40N1Z	Yes	A	12.1 x 5.8 x 9.0	22	\$1,650	
	5	7.0	3	5.5	CFW110007T40N1Z	Yes	A	12.1 x 5.8 x 9.0	22	\$1,712	
	7 1/2	10	5	10	CFW110010T40N1Z	Yes	A	12.1 x 5.8 x 9.0	22	\$1,969	
	10	13.5	7 1/2	11	CFW110013T40N1Z	Yes	A	12.1 x 5.8 x 9.0	22	\$2,068	
	10	17	10	13.5	CFW110017T40N1Z	Yes	B	13.9 x 7.5 x 9.0	23	\$2,530	
	15	24	10	19	CFW110024T40N1Z	Yes	B	13.9 x 7.5 x 9.0	23	\$2,992	
	20	31	15	25	CFW110031T40N1Z	Yes	B	13.9 x 7.5 x 9.0	23	\$3,873	
	25	38	20	33	CFW110038T40N1Z	Yes	C	17.7 x 8.7 x 11.5	46	\$4,300	
	30	45	25	38	CFW110045T40N1Z	Yes	C	17.7 x 8.7 x 11.5	46	\$5,400	
	40	58.5	30	47	CFW110058T40N1Z	Yes	C	17.7 x 8.7 x 11.5	46	\$6,633	
	50/60	70.5	40	61	CFW110070T40N1Z	Yes	D	19.9 x 11.9 x 12.0	75	\$7,500	
	60/75	88	50	73	CFW110088T40N1Z	Yes	D	19.9 x 11.9 x 12.0	75	\$8,900	
	75	105	75	88	CFW110105T40N1DBZ	Yes	E	26.6 x 13.2 x 14.1	144	\$13,600	
	100/125	142	75	115	CFW110142T40N1DBZ	Yes	E	26.6 x 13.2 x 14.1	144	\$15,900	
	150	180	100/125	142	CFW110180T40N1DBZ	Yes	E	26.6 x 13.2 x 14.1	144	\$23,115	
	175	211	150	180	CFW110211T40N1DBZ	Yes	E	26.6 x 13.2 x 14.1	144	\$27,020	
	Input Power Supply: Three-Phase 380–480 VAC without Dynamic Braking Transistor										
	75	105	75	88	CFW110105T40N1Z	No	E	26.6 x 13.2 x 14.1	144	\$10,650	V1P (V1)
	100/125	142	75	115	CFW110142T40N1Z	No	E	26.6 x 13.2 x 14.1	144	\$12,500	
	150	180	100/125	142	CFW110180T40N1Z	No	E	26.6 x 13.2 x 14.1	144	\$17,500	
	175	211	150	180	CFW110211T40N1Z	No	E	26.6 x 13.2 x 14.1	144	\$21,000	
	200	242	150	211	CFW110242T4SZ	No	F ⁶	48.6 x 16.9 x 14.2	309	\$23,000	
	250	312	200	242	CFW110312T4SZ	No	F ⁶	48.6 x 16.9 x 14.2	309	\$29,366	
	300	370	250	312	CFW110370T4SZ	No	F ⁶	48.6 x 16.9 x 14.2	309	\$31,314	
	400	477	300	370	CFW110477T4SZ	No	F ⁶	48.6 x 16.9 x 14.2	309	\$41,027	
	450	515	400	477	CFW110515T4SZ	No	G ⁶	50 x 21.1 x 16.8	474	\$43,970	
	500	601	450	515	CFW110601T4SZ	No	G ⁶	50 x 21.1 x 16.8	474	\$50,088	
	600	720	500	560	CFW110720T4SZ	No	G ⁶	50 x 21.1 x 16.8	474	\$59,330	
	650	760	500	600	CFW110760T4OYZ	No	G ^{6,7}	50 x 21.1 x 16.8	474	\$60,240	
	700	795	550	637	CFW110795T4OYZ	No	H ^{6,7,8}	55.7 x 27.1 x 16.6	470	\$59,900	
					WKDRULL8H-877	Line reactor (qty 2)		12.3 x 15.5 x 13.5	125 x 2	\$5,962 (ea)	
	750	877	600	715	CFW110877T4OYZ	No	H ^{6,7,8}	55.7 x 27.1 x 16.6	470	\$65,950	
					WKDRULL8H-877	Line reactor (qty 2)		12.3 x 15.5 x 13.5	125 x 2	\$5,962 (ea)	
	950	1062	750	855	CFW111062T4OYZ	No	H ^{6,7,8}	55.7 x 27.1 x 16.6	486	\$79,736	
					WKDRULS3H-1141	Line reactor (qty 2)		12.61 x 15.25 x 16.5	190 x 2	\$7,725 (ea)	
	1000	1141	800	943	CFW111141T4OYZ	No	H ^{6,7,8}	55.7 x 27.1 x 16.6	486	\$92,517	
					WKDRULS3H-1141	Line reactor (qty 2)		12.61 x 15.25 x 16.5	190 x 2	\$7,725 (ea)	

Notes:

1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Frame A to D: Maximum 50°C ambient temperature without derating.
Frame E, F and G (515A and 601A): Maximum 45°C ambient temperature without derating.
Frame G (720 A and 760 A) and H: Maximum 40°C ambient temperature without derating.

5) Frame A to E: Approx. 6% impedance Dual DC Bus chokes.
Frame F and G: Approx. 3% impedance Dual DC Bus chokes.

6) IP20 enclosure protection level.

7) Includes STO Safety Stop per EN 954-1 / ISO 13846-1, Category 3.

8) Frame-H does not have built-in DC-link Inductor. The Open style (IP00) input AC line reactor(s) in mentioned quantities must be used with drive to get the drive warranty.

NEMA 1 Enclosure

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
575 VAC ⁴	Input Power Supply: Three-Phase 500–600 VAC with Dynamic Braking Transistor										
	2	2.9	2	2.7	CFW110002T50N1NFZ	Yes	B	13.9 x 7.5 x 9.0	24	\$2,393	V1P (V1)
	3	4.4	3	3.8	CFW110004T50N1NFZ	Yes	B	13.9 x 7.5 x 9.0	24	\$2,360	
	7 1/2	7.0	5	6.4	CFW110007T50N1NFZ	Yes	B	13.9 x 7.5 x 9.0	24	\$2,516	
	10	10	7 1/2	9.0	CFW110010T50N1NFZ	Yes	B	13.9 x 7.5 x 9.0	24	\$2,850	
	10	12	10	10	CFW110012T50N1NFZ	Yes	B	13.9 x 7.5 x 9.0	24	\$2,998	
	15	17	15	17	CFW110017T50N1NFZ	Yes	B	13.9 x 7.5 x 9.0	24	\$3,145	
	20	22	20	19	CFW110022T50N1NFZ	Yes	C	17.7 x 8.7 x 11.5	44.6	\$4,748	
	25	27	20	22	CFW110027T50N1NFZ	Yes	C	17.7 x 8.7 x 11.5	44.6	\$5,023	
	30	32	25	27	CFW110032T50N1NFZ	Yes	C	17.7 x 8.7 x 11.5	44.6	\$5,803	
	40	44	30	36	CFW110044T50N1NFZ	Yes	C	17.7 x 8.7 x 11.5	44.6	\$7,175	
	50	53	40	44	CFW110053T60N1YZ	Yes	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$12,166	
	60	63	50	53	CFW110063T60N1YZ	Yes	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$12,932	
	75	80	75	66	CFW110080T60N1YZ	Yes	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$13,979	
	100	107	100	90	CFW110107T60N1YZ	Yes	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$23,951	
	125	125	100	107	CFW110125T60N1YZ	Yes	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$29,042	
	150	150	125	122	CFW110150T60N1YZ	Yes	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$33,040	
	Input Power Supply: Three-Phase 500–600 VAC without Dynamic Braking Transistor										
	50	53	40	44	CFW110053T60N1NBYZ	No	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$9,887	V1P (V1)
	60	63	50	53	CFW110063T60N1NBYZ	No	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$10,510	
75	80	75	66	CFW110080T60N1NBYZ	No	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$11,358		
100	107	100	90	CFW110107T60N1NBYZ	No	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$19,458		
125	125	100	107	CFW110125T60N1NBYZ	No	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$23,589		
150	150	125	122	CFW110150T60N1NBYZ	No	E ^{5, 8}	26.6 x 13.2 x 14.1	143	\$32,080		
150	170	150	150	CFW110170T60YZ	No	F ^{5, 7, 8}	48.6 x 16.9 x 14.2	371	\$33,083		
200	216	150	180	CFW110216T60YZ	No	F ^{5, 7, 8}	48.6 x 16.9 x 14.2	371	\$40,206		
300	289	250	240	CFW110289T60YZ	No	F ^{5, 7, 8}	48.6 x 16.9 x 14.2	371	\$48,913		
350	315	300	289	CFW110315T60YZ	No	G ^{5, 7, 8}	50 x 21.1 x 16.8	569	\$54,936		
400	365	350	315	CFW110365T60YZ	No	G ^{5, 7, 8}	50 x 21.1 x 16.8	569	\$71,061		
450	435	350	357	CFW110435T60YZ	No	G ^{5, 7, 8}	50 x 21.1 x 16.8	569	\$76,125		
500	472	450	418	CFW110472T60YZ	No	G ^{6, 7, 8}	50 x 21.1 x 16.8	569	\$77,150		
650	584	550	504	CFW110584T60YZ	No	H ^{6, 7, 8, 9}	55.7 x 27.1 x 16.6	441	\$76,990		
				WKDRULS50H-625	Line reactor (qty 1)		12.3 x 15.5 x 13.5	195 x 1	\$8,495(ea)		
700	625	600	540	CFW110625T60YZ	No	H ^{6, 7, 8, 9}	55.7 x 27.1 x 16.6	441	\$81,950		
				WKDRULS50H-625	Line reactor (qty 1)		12.3 x 15.5 x 13.5	195 x 1	\$8,495(ea)		
850	758	650	614	CFW110758T60YZ	No	H ^{6, 7, 8, 9}	55.7 x 27.1 x 16.6	470	\$92,830		
				WKDRULS43L-804	Line reactor (qty 2)		12.3 x 15.5 x 13.5	175 x 2	\$5,615(ea)		
900	804	750	682	CFW110804T60YZ	No	H ^{6, 7, 8, 9}	55.7 x 27.1 x 16.6	470	\$104,990		
				WKDRULS43L-804	Line reactor (qty 2)		12.3 x 15.5 x 13.5	175 x 2	\$5,615(ea)		

Notes:

1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) All 575V drives are non-stocked items, consult WEG for availability.

5) Maximum 45°C ambient temperature without derating.

6) Maximum 40°C ambient temperature without derating.

7) IP20 enclosure protection level.

8) Includes STO Safety Stop per EN 954-1 / ISO 13849-1, Category 3.

9) Frame size "H" does not have built-in DC-link Inductor. The Open style (IP00) Input AC line reactor(s) in mentioned qty must be used with the drive to get the drive warranty.

Variable Frequency Drives



CFW11 Series

NEMA 12 / IP55 Enclosure with Disconnect Switch

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 200–240 VAC with Dynamic Braking Transistor										
	2	7	1.5	5.5	CFW110007T2055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$2,022	V1P (V1)
	3	10	2	8	CFW110010T2055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$2,074	V1P (V1)
	5	13	3	11	CFW110013T2055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$2,130	V1P (V1)
	5	16	5	13	CFW110016T2055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$2,601	V1P (V1)
	7.5	24	7.5	20	CFW110024T2055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$3,074	V1P (V1)
	10	28	10	24	CFW110028T2055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$3,529	V1P (V1)
	10	33.5	10	28	CFW110033T2055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$4,062	V1P (V1)
	15	45	15	36	CFW110045T2055DSZ	Yes	C	26.4 x 12.1 x 13.7	66.2	\$4,892	V1P (V1)
	20	54	20	45	CFW110054T2055DSZ	Yes	C	26.4 x 12.1 x 13.7	66.2	\$6,037	V1P (V1)
	25	70	20	56	CFW110070T2055DSZ	Yes	C	26.4 x 12.1 x 13.7	66.2	\$6,941	V1P (V1)
	30	86	25	70	CFW110086T2055DSZ	Yes	D	29.7 x 14.8 x 11.9	108	\$7,895	V1P (V1)
	40	105	30	86	CFW110105T2055DSZ	Yes	D	29.7 x 14.8 x 11.9	108	\$10,062	V1P (V1)
	Input Power Supply: Three-Phase 200–240 VAC without Dynamic Braking Transistor										
	50	142	40	115	CFW110142T2055DSZ	No	E	39.4 x 16.9 x 15.3	211.7	\$12,539	V1P (V1)
	60	180	50	142	CFW110180T2055DSZ	No	E	39.4 x 16.9 x 15.3	211.7	\$17,211	V1P (V1)
	75	211	60	180	CFW110211T2055DSZ	No	E	39.4 x 16.9 x 15.3	211.7	\$22,167	V1P (V1)
460 VAC	Input Power Supply: Three-Phase 380–480 VAC with Dynamic Braking Transistor										
	2	3.6	2	3.6	CFW110003T4055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$1,873	V1P (V1)
	3	5	3	5	CFW110005T4055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$1,997	V1P (V1)
	5	7	3	5.5	CFW110007T4055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$2,065	V1P (V1)
	7.5	10	5	10	CFW110010T4055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$2,198	V1P (V1)
	10	13.5	7.5	11	CFW110013T4055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$2,632	V1P (V1)
	10	17	10	13.5	CFW110017T4055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$2,786	V1P (V1)
	15	24	10	19	CFW110024T4055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$3,622	V1P (V1)
	20	31	15	25	CFW110031T4055DSZ	Yes	B	20.8 x 10.7 x 11.0	37.5	\$4,427	V1P (V1)
	25	38	20	33	CFW110038T4055DSZ	Yes	C	26.4 x 12.1 x 13.7	66.2	\$5,610	V1P (V1)
	30	45	25	38	CFW110045T4055DSZ	Yes	C	26.4 x 12.1 x 13.7	66.2	\$6,728	V1P (V1)
	40	58.5	30	47	CFW110058T4055DSZ	Yes	C	26.4 x 12.1 x 13.7	66.2	\$7,678	V1P (V1)
	50/60	70.5	40	61	CFW110070T4055DSZ	Yes	D	29.7 x 14.8 x 11.9	108	\$9,412	V1P (V1)
	60/75	88	50	73	CFW110088T4055DSZ	Yes	D	29.7 x 14.8 x 11.9	108	\$11,084	V1P (V1)
	Input Power Supply: Three-Phase 380–480 VAC without Dynamic Braking Transistor										
	75	105	75	88	CFW110105T4055DSZ	No	E	39.4 x 16.9 x 15.3	211.7	\$12,198	V1P (V1)
	100/125	142	75	115	CFW110142T4055DSZ	No	E	39.4 x 16.9 x 15.3	211.7	\$15,062	V1P (V1)
150	180	100/125	142	CFW110180T4055DSZ	No	E	39.4 x 16.9 x 15.3	211.7	\$21,115	V1P (V1)	
175	211	150	180	CFW110211T4055DSZ	No	E	39.4 x 16.9 x 15.3	211.7	\$27,554	V1P (V1)	

Notes:

1) CT (Constant Torque), 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Dimensions are provided for estimating purposes only. Always refer to as built drawings for actual measurements.

All CFW11 IP55/NEMA 12 drives have maximum 40°C ambient temperature without derating

For other technical data please refer to WEG product manual.

Options & Accessories

Type	Catalog Number	Description	Slot	List Price	Multiplier New (old)
I/O Expansion Module	IOA-01	IOA Module for CFW11: - One (1) analog input (AI4 – 14 bits, voltage or current) - Two (2) analog outputs (AO3 and AO4 – 14 bits, voltage or current) - Two (2) digital inputs; two (2) digital outputs (open-collector) - All analog inputs and outputs are galvanically isolated	1	\$1,100	V1P (V1)
	IOB-01	IOB Module for CFW11: - Two (2) analog inputs (AI3 and AI4 – 12 bits, voltage or current) - Two (2) analog outputs (AO1 and AO2 – 11 bits, voltage or current) - Two (2) digital inputs; two (2) digital outputs (open-collector) - All analog inputs and outputs are galvanically isolated	1	\$600	V1P (V1)
	IOC-01	Module for SoftPLC : 8x Isolated Digital Inputs; 4x Relay output (240 V/1 A)	1	\$447	V1P (V1)
	IOC-02	Module for SoftPLC : 8x Isolated Digital Inputs; 8x open collector digital outputs	1	\$411	V1P (V1)
	IOE-01	PTC Temperature Sensor Input Card; 5-Channels	1	\$668	V1P (V1)
	IOE-02	PT100 Temperature Sensor Input Card; 5-Channels	1	\$1,741	V1P (V1)
	IOE-03	KTY84 Temperature Sensor Input Card; 5-Channels	1	\$863	V1P (V1)
Encoder Module	ENC-01	Incremental encoder module, 5–12 VDC at 100 kHz, with encoder signal repeater	2	\$500	V1P (V1)
	ENC-02	Incremental encoder module, 5–12 VDC at 100 kHz, without encoder signal repeater	2	\$430	V1P (V1)
Communication	RS485-01	RS-485 serial communication module (Modbus RTU)	3	\$240	V1P (V1)
	RS232-01	RS-232C serial communication module (Modbus RTU)	3	\$180	V1P (V1)
	RS232-02	RS232C serial communication module with DIP-switches for microcontroller's flash memory programming	3	\$180	V1P (V1)
	CAN/RS485-01	CAN and RS-485 communication module (CANopen / Modbus / DeviceNet)	3	\$480	V1P (V1)
	CAN-01	CAN interface module (CANopen/DeviceNet) (CFW11 and CFW700)	3	\$410	GA (V1)
	PROFIBUS DP-01	Profibus DP-V1 interface module (CFW11 and CFW700)	3	\$520	GA (V1)
	PROFDP-05	Profibus DP interface module	4	\$935	V1P (V1)
	DEVICENET-05	DeviceNet interface module	4	\$935	V1P (V1)
	ETHERNET/IP-05	Ethernet/IP interface module	4	\$935	V1P (V1)
	ETHERNETIP-2P-05	EtherNet/IP Communication Module, 2-ports	4	\$1,067	V1P (V1)
	ETHERCAT-05	EtherCAT Communication Module	4	\$1,117	V1P (V1)
	RS232-05	RS-232 serial communication module (Modbus RTU)	4	\$228	V1P (V1)
	RS485-05	RS-485 serial communication module (Modbus RTU)	4	\$275	V1P (V1)
	MODBUSTCP-05	Modbus TCP/IP interface module	4	\$1,381	V1P (V1)
	MODBUSTCP-2P-05	Modbus TCP/IP interface module, 2-ports	4	\$1,567	V1P (V1)
	PROFINET IO-05	ProfiNet interface module	4	\$1,594	V1P (V1)
PLC	PLC11-01	- PLC functions with ladder programming, electronic gear box, etc. - Nine (9) digital inputs; three (3) dry-contact digital outputs; three (3) open-collector digital outputs - One (1) analog input (14 bits); two (2) analog outputs (14 bits); two (2) encoder interfaces - RS-485 Modbus-RTU interface - CAN interface (CANopen, CANopen master/slave)	1, 2, 3	\$1,876	V1P (V1)
PLC	PLC11-02	- PLC functions with ladder programming, electronic gear box, etc. - Four (4) digital inputs; one (1) dry-contact digital output; three (3) open-collector digital outputs - Two (2) encoder interfaces; RS-485 Modbus RTU interface - CAN interface (CANopen, CANopen master/slave)	1,2,3	\$1,221	V1P (V1)
Flash Memory	MMF-01	- Flash memory module for CFW11; blue cover - For main circuit board versions CC11C and older	5	\$71	V1P (V1)
	MMF-03	- Flash memory module for CFW11; yellow cover - For main circuit board versions CC11D and newer	5	\$71	V1P (V1)

Continued on next page

Variable Frequency Drives



CFW11 Series

Options & Accessories

Type	Catalog Number	Description	List Price	Multiplier New (old)
Keypad and Accessories	HMI-01	CFW11 Standard Keypad	\$205	V1G (V1)
	RHMIF-01	CFW11 Remote Keypad Frame Kit	\$69	V1P (V1)
	HMID-01	Blank Keypad Cover for Keypad Slot	\$54	V1P (V1)
Remote Keypad Cable	IHM-CAB-RS-1M	3.3 ft (1 m) Remote Keypad Cable	\$54	GA (V1)
	IHM-CAB-RS-2M	6.6 ft (2 m) Remote Keypad Cable	\$60	GA (V1)
	IHM-CAB-RS-3M	9.9 ft (3 m) Remote Keypad Cable	\$66	GA (V1)
	IHM-CAB-RS-5M	16 ft (5 m) Remote Keypad Cable	\$75	GA (V1)
	IHM-CAB-RS-7.5M	25 ft (7.5 m) Remote Keypad Cable	\$90	GA (V1)
	IHM-CAB-RS-10M	33 ft (10 m) Remote Keypad Cable	\$102	GA (V1)
Conduit Kit	KN1A-01	NEMA 1 Conduit Kit for frame size A with power cables shielding	\$69	V1P (V1)
	KN1B-01	NEMA 1 Conduit Kit for frame size B with power cables shielding	\$82	V1P (V1)
	KN1C-01	NEMA 1 Conduit Kit for frame size C with power cables shielding	\$94	V1P (V1)
	KIP21D-01	IP21 Top Cover Kit for Frame size D	\$100	GA (V1)
	KN1E-01	NEMA 1 Top cover kit for frame size E (105 and 142 A)	\$78	GA (V1)
	KN1E-02	NEMA 1 Top cover kit plus Conduit kit for frame size E (180 and 211 A)	\$213	GA (V1)
	KN1F-01	NEMA 1 Conduit Kit for frame size F	\$390	V1P (V1)
Cable Shield Kit	KN1G-01	NEMA 1 Conduit Kit for frame size G	\$445	V1P (V1)
	PCSA-01	Power Cables Shielding Kit for frame size A	\$48	GA (V1)
	PCSB-01	Power Cables Shielding Kit for frame size B	\$51	GA (V1)
	PCSC-01	Power Cables Shielding Kit for frame size C	\$54	GA (V1)
	PCSD-01	Power Cables Shielding Kit for frame size D	\$56	GA (V1)
Dynamic Brake	PCSE-01	Power Cables Shielding Kit for frame size E	\$76	GA (V1)
	DBW030380D3848SZ	External Dynamic Braking Module for CFW11: T4, Frame F and G (380–480 VAC), 380 A	\$6,822	V1P (V1)
	DBW040380D3848SZ	External Dynamic Braking Module for CFW11: T4, Frame H (380–480 VAC), 380 A	\$6,822	V1P (V1)
	DBW030250D5069SZ	External Dynamic Braking Module for CFW11: T5/T6, Frame F and G (500–690 VAC), 250 A	\$6,654	V1P (V1)
	DBW040250D5069SZ	External Dynamic Braking Module for CFW11: T5/T6, Frame H (500–690 VAC), 250 A	\$6,654	V1P (V1)
CFW11 Demo Suitcase	KIP20	IP20 kit for DBW03 / DBW04	\$96	V1P (V1)
	CFW11-DEMO-SLV	CFW11 Demo Suitcase, Silver, with Encoder	\$10,950	V1P (V1)

Technical Data

Power Supply	Voltage	Single-phase or three-phase		200–240V (+10%, -15%)
		Three-phase		380–480V (+10%, -15%)
	Frequency	50/60 Hz +/- 2 Hz		
	Displacement Power Factor (Cos)	Greater than 0.94		
Enclosure	Degree of Protection	NEMA 1 / IP20 / NEMA 12 (IP55)		
Control	Control Modes	Volts per Hertz (Scalar)		Voltage Vector (VW)
		Sensor-less Vector		Vector with encoder
	Power Output	Sinusoidal PWM (Space Vector Modulation)		
		IGBT Transistors		
	Switching Frequency	1.25, 2.0, 2.5, 5.0 or 10.0 kHz		
	Frequency Range	0–300 Hz in Scalar Mode; 120 Hz in Vector Mode		
	Overload Capacity	CT (Constant Torque), 150% overload for 60 seconds VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds		
Control Inputs	Six programmable isolated digital inputs, 24 VDC logic			
	Two isolated programmable differential analog inputs 11 bit; programmable for current or voltage (0–10V, 4–20 mA or 0–20 mA)			
Control Outputs	Three programmable relay output; NO/NC (Form C); 240 VAC, 30 VDC / 1.0 A			
	Two isolated programmable analog outputs 11 bit; programmable for current or voltage (0–10V, 4–20 mA or 0–20 mA)			
Communication	Serial	Optional RS-232 serial interface, RS-485 with external RS-232/485 converter		
	Field Bus	RS-232 (Modbus RTU), RS-485 (Modbus RTU), CANopen, Profibus DP		
		DeviceNet, Profibus DP-V1, Ethernet/IP, Modbus TCP, ProfiNet IO (Active Module), EtherCAT		
		RS232, RS485 (Passive Module)		
Safety	Protections	Motor over current		DC link over voltage
		Motor overload		DC link under voltage
		Output phase-to-phase short circuit		Drive over temperature
		Output phase-to-ground short circuit		External fault
		Programming error		
Ambient	Temperature	14–122°F (-10–50°C) for Frame A to D; 14–113°F (-10–45°C) for Frame-E, F and G (except 720 A).		
		14–104°F (-10–40°C) for NEMA 12/IP55		
		2% Current derating for every 1°C above maximum temperature (limited to 10°C)		
	Humidity	5–95% Non-condensing		
	Altitude	0–3,300 ft (1,000 m), up to 13,200 ft (4,000 m) with 1% output current derating per 330 ft (100 m) above 3,300 ft (1,000 m).		
Regulatory Conformance	IEC 60146	Semiconductor converters		
	UL 508 C	Power Conversion Equipment		
	UL 840	Insulation coordination including clearances and creepage distances for electrical equipment.		
	EN 50178	Electronic equipment for use in power installations		
	EN 61800-2	General requirements adjustable speed electrical power drive systems		
	EN 61800-3	EMC product standard including specific test methods adjustable speed electrical power drive systems		
	EN 61800-5-1	Safety requirements adjustable speed electrical power drive systems		
	EN 60204-1	Safety of machinery. Electrical equipment of machines. Part 1: General requirements.		
	RoHS and WEEE Guidelines			
Approvals	UL, cUL, CE, C-Tick, GOST			
Special Functions	Linear and “S” ramp accel and decel, local/remote control, FWD/REV selection, DC braking, manual and auto torque boost, motor slip compensation, electronic pot, two skip frequencies, maximum and minimum adjustable frequency limits, adjustable output current			
Keypad	Four (4) digit display, two (2) indicator LEDs and eight (8) keys			
	Readouts for: output frequency (Hz), output current (A), output voltage (V), motor torque (%) in vector mode, DC bus voltage (V), value proportional to frequency (Ex.: RPM), heatsink temperature, fault and status messages			

Variable Frequency Drives

NON-STOCK (call for lead time)



Dynamic Braking Resistors for CFW11 Series

Dynamic Braking Resistors

100% Braking Torque at 20% Duty Cycle (12 Seconds Maximum Braking Time) – NEMA 1 Enclosure

Motor Voltage	Motor HP ¹	CFW11 Catalog Number	Braking Resistor Catalog Number ²	Rated Ohms	Rated Watts	Dimensions (in) H x W x D ³	List Price	Multiplier New (old)
230 VAC	1 1/2	CFW110006B20N1Z	CFDB2-125-224	125	256	5 x 12 x 5	\$525	GA (V1)
	2	CFW110007B20N1Z	CFDB2-95-298	95	335	5 x 12 x 7	\$825	GA (V1)
	2	CFW110007T20N1Z	CFDB2-95-298	95	335	5 x 12 x 7	\$825	GA (V1)
	3	CFW110010S20N1Z	CFDB2-63-448	63	500	5 x 12 x 7	\$825	GA (V1)
	3	CFW110010T20N1Z	CFDB2-63-448	63	500	5 x 12 x 7	\$825	GA (V1)
	5	CFW110013T20N1Z	CFDB2-38-746	38	920	5 x 12 x 10	\$1,025	GA (V1)
	5	CFW110016T20N1Z	CFDB2-38-746	38	920	5 x 12 x 10	\$1,025	GA (V1)
	7 1/2	CFW110024T20N1Z	CFDB5-26-1119	26	1,170	5 x 12 x 13	\$1,225	GA (V1)
	10	CFW110028T20N1Z	CFDB2-19-1492	19	1,676	5 x 12 x 16	\$1,430	GA (V1)
	10	CFW110033T20N1Z	CFDB2-19-1492	19	1,676	5 x 12 x 16	\$1,430	GA (V1)
	15	CFW110045T20N1Z	CFDB2-13-2238	12.6	2,580	5 x 19 x 10	\$1,775	GA (V1)
	20	CFW110054T20N1Z	CFDB2-10-2984	9.6	3,387	5 x 19 x 10	\$1,775	GA (V1)
	25	CFW110070T20N1Z	CFDB2-8-3730	7.5	4,214	5 x 19 x 13	\$2,150	GA (V1)
	30	CFW110086T20N1Z	CFDB2-7-4476	6.3	5,001	5 x 26.5 x 13	\$2,780	GA (V1)
	40	CFW110105T20N1Z	CFDB2-5-5968	4.9	6,590	5 x 26.5 x 16	\$3,510	GA (V1)
	50	CFW110142T20N1DBZ	CFDB2-4-7460	3.9	7,800	10 x 28 x 10	\$4,095	GA (V1)
	60	CFW110180T20N1DBZ	CFDB2-4-8952	3.3	9,504	10 x 28 x 10	\$4,095	GA (V1)
	75	CFW110211T20N1DBZ	CFDB2-3-11190	2.7	12,150	10 x 28 x 13	\$6,010	GA (V1)
460 VAC	2	CFW110003T40N1Z	CFDB2-375-298	375	331	5 x 12 x 7	\$825	GA (V1)
	3	CFW110005T40N1Z	CFDB2-250-448	250	512	5 x 12 x 7	\$825	GA (V1)
	5	CFW110007T40N1Z	CFDB2-150-746	150	843	5 x 12 x 10	\$1,025	GA (V1)
	7 1/2	CFW110010T40N1Z	CFDB2-100-1119	100	1,280	5 x 12 x 13	\$1,225	GA (V1)
	10	CFW110013T40N1Z	CFDB2-75-1492	75	1,815	5 x 12 x 16	\$1,430	GA (V1)
	10	CFW110017T40N1Z	CFDB2-75-1492	75	1,815	5 x 12 x 16	\$1,430	GA (V1)
	15	CFW110024T40N1Z	CFDB2-50-2238	50	2,560	5 x 19 x 13	\$1,965	GA (V1)
	20	CFW110031T40N1Z	CFDB2-38-2984	38	3,352	5 x 19 x 16	\$2,365	GA (V1)
	25	CFW110038T40N1Z	CFDB2-30-3730	30	4,374	5 x 26.5 x 13	\$2,700	GA (V1)
	30	CFW110045T40N1Z	CFDB2-25-4476	25	5,120	5 x 26.5 x 13	\$2,700	GA (V1)
	40	CFW110058T40N1Z	CFDB2-19-5968	19	6,703	5 x 26.5 x 16	\$3,155	GA (V1)
	50/60	CFW110070T40N1Z	CFDB2-15-8952	15	10,002	10 x 28 x 13	\$4,635	GA (V1)
	75	CFW110088T40N1Z	CFDB2-10-11190	10	12,800	10 x 28 x 16	\$6,050	GA (V1)
	75	CFW110105T40N1DBZ	CFDB2-10-11190	10	12,800	10 x 28 x 16	\$6,050	GA (V1)
	100/125	CFW110142T40N1DBZ	CFDB2-6-18650	6	20,280	24 x 30 x 18	\$10,210	GA (V1)
	150	CFW110180T40N1DBZ	CFDB2-5-22380	5	25,600	24 x 30 x 18	\$12,655	GA (V1)
	175	CFW1102110N1DBZ	CFDB2-5-29840	5	33,516	24 x 30 x 18	\$12,655	GA (V1)
	200	CFW110242T4SZ ⁴	CFDB2-4-29840	3.8	33,516	30 x 18 x 32	\$12,655	GA (V1)
	250	CFW110312T4SZ ⁴	CFDB2-3-37300	3	43,740	30 x 18 x 32	\$13,375	GA (V1)
	300	CFW110370T4SZ ⁴	CFDB2-3-44760	2.5	51,200	30 x 18 x 32	\$16,420	GA (V1)
	350	CFW110477T4SZ ⁴	CFDB2-3-52220	2.2	57,024	30 x 18 x 48	\$22,835	GA (V1)
	400	CFW110515T4SZ ⁴	CFDB2-2-59680	1.9	67,032	30 x 18 x 48	\$23,645	GA (V1)
	500	CFW110601T4SZ ⁴	CFDB2-2-74600	1.5	84,270	30 x 18 x 64	\$34,205	GA (V1)
	600	CFW110720T4SZ ⁴	Consult with WEG					GA (V1)

Notes:

1) "HP" rating based on "average FLA values." Use as a guide only.

2) Dynamic Braking Resistors are non-stock items. Consult WEG for availability.

3) Dimensions are provided for estimating purposes only.

4) Drive without built in dynamic braking chopper. The external dynamic braking chopper module "DBW03XXXX" must be purchased separately. Please refer to CFW11 "Options and Accessories" section for more detail.

Dynamic Braking Resistors

100% Braking Torque at 50% Duty Cycle (30 Seconds Maximum Braking Time) – NEMA 1 Enclosure

Motor Voltage	Motor HP ¹	CFW11 Catalog Number	Braking Resistor Catalog Number ²	Rated Ohms	Rated Watts	Dimensions (in) H x W x D ³	List Price	Multiplier New (old)
230 VAC	1 1/2	CFW110006B20N1Z	CFDB5-125-560	125	640	5 x 12 x 10	\$1,025	GA (V1)
	2	CFW110007B20N1Z	CFDB5-95-746	95	838	5 x 12 x 10	\$1,025	GA (V1)
	2	CFW110007T20N1Z	CFDB5-95-746	95	838	5 x 12 x 10	\$1,025	GA (V1)
	3	CFW110010S20N1Z	CFDB5-63-1119	63	1,250	5 x 12 x 10	\$1,225	GA (V1)
	3	CFW110010T20N1Z	CFDB5-63-1119	63	1,250	5 x 12 x 10	\$1,225	GA (V1)
	5	CFW110013T20N1Z	CFDB5-38-1865	38	2,299	5 x 19 x 13	\$1,965	GA (V1)
	5	CFW110016T20N1Z	CFDB5-38-1865	38	2,299	5 x 19 x 13	\$1,965	GA (V1)
	7 1/2	CFW110024T20N1Z	CFDB5-26-2798	26	2,925	5 x 26.5 x 13	\$2,700	GA (V1)
	10	CFW110028T20N1Z	CFDB5-19-3730	19	4,190	5 x 26.5 x 13	\$2,700	GA (V1)
	10	CFW110033T20N1Z	CFDB5-19-3730	19	4,190	5 x 26.5 x 13	\$2,700	GA (V1)
	15	CFW110045T20N1Z	CFDB5-13-5595	12.6	6,451	5 x 26.5 x 16	\$3,155	GA (V1)
	20	CFW110054T20N1Z	CFDB5-10-7460	9.6	8,467	10 x 28 x 13	\$4,990	GA (V1)
	25	CFW110070T20N1Z	CFDB5-8-9325	7.5	10,534	10 x 28 x 13	\$4,990	GA (V1)
	30	CFW110086T20N1Z	CFDB5-7-11190	6.3	12,502	10 x 28 x 16	\$5,620	GA (V1)
	40	CFW110105T20N1Z	CFDB5-5-14920	4.9	16,474	24 x 30 x 18	\$7,225	GA (V1)
	50	CFW110142T20N1DBZ	CFDB5-4-18650	3.9	19,500	24 x 30 x 18	\$11,025	GA (V1)
	60	CFW110180T20N1DBZ	CFDB5-4-22380	3.3	23,760	24 x 30 x 18	\$11,025	GA (V1)
	75	CFW110211T20N1DBZ	CFDB5-3-27975	2.7	30,375	32 x 30 x 18	\$16,420	GA (V1)
460 VAC	2	CFW110003T40N1Z	CFDB5-375-746	375	827	5 x 12 x 13	\$1,225	GA (V1)
	3	CFW110005T40N1Z	CFDB5-250-1119	250	1,280	5 x 12 x 16	\$1,630	GA (V1)
	5	CFW110007T40N1Z	CFDB5-150-1865	150	2,107	5 x 19 x 13	\$1,840	GA (V1)
	7 1/2	CFW110010T40N1Z	CFDB5-100-2798	100	3,200	5 x 19 x 16	\$2,365	GA (V1)
	10	CFW110013T40N1Z	CFDB5-75-3730	75	4,538	5 x 26.5 x 16	\$3,155	GA (V1)
	10	CFW110017T40N1Z	CFDB5-75-3730	75	4,538	5 x 26.5 x 16	\$3,155	GA (V1)
	15	CFW110024T40N1Z	CFDB5-50-5595	50	6,400	10 x 28 x 13	\$4,555	GA (V1)
	20	CFW110031T40N1Z	CFDB5-38-7460	38	8,379	10 x 28 x 13	\$4,555	GA (V1)
	25	CFW110038T40N1Z	CFDB5-30-9325	30	10,935	10 x 28 x 16	\$5,050	GA (V1)
	30	CFW110045T40N1Z	CFDB5-25-11190	25	12,800	10 x 28 x 16	\$5,425	GA (V1)
	40	CFW110058T40N1Z	CFDB5-19-14920	19	16,758	24 x 30 x 18	\$9,460	GA (V1)
	50/60	CFW110070T40N1Z	CFDB5-15-22380	15	25,005	24 x 30 x 18	\$10,865	GA (V1)
	75	CFW110088T40N1Z	CFDB5-10-27975	10	32,000	32 x 30 x 18	\$15,605	GA (V1)
	75	CFW110105T40N1DBZ	CFDB5-10-27975	10	32,000	32 x 30 x 18	\$15,605	GA (V1)
	100/125	CFW110142T40N1DBZ	CFDB5-8-46625	8	50,700	32 x 30 x 18	\$20,600	GA (V1)
	150	CFW110180T40N1DBZ	CFDB5-5-55950	5	64,000	48 x 30 x 18	\$20,070	GA (V1)
	175	CFW110211T40N1DBZ	CFDB5-5-74600	5	83,790	72 x 30 x 18	\$33,780	GA (V1)
	200	CFW110242T4SZ ⁴	CFDB5-4-74600	3.8	83,790	30 x 18 x 72	\$33,780	GA (V1)
	250	CFW110312T4SZ ⁴	CFDB5-3-93250	3	109,350	30 x 18 x 72	\$33,780	GA (V1)
	300	CFW110370T4SZ ⁴	CFDB5-3-111900	2.5	128,000	(2) 30 x 18 x 56	\$57,595	GA (V1)
	350	CFW110477T4SZ ⁴	CFDB5-3-130550	2.2	142,560	(2) 30 x 18 x 56	\$57,595	GA (V1)
	400	CFW110515T4SZ ⁴	CFDB5-2-149200	1.9	167,580	(2) 30 x 18 x 56	\$78,115	GA (V1)
	500	CFW110601T4SZ ⁴	CFDB5-2-186500	1.5	210,675	(2) 30 x 18 x 56	\$78,115	GA (V1)
	600	CFW110720T4SZ ⁴	Consult with WEG					GA (V1)

Notes:

1) "HP" rating based on "average FLA values." Use as a guide only.

2) Dynamic Braking Resistors are non-stock items. Consult WEG for availability.

3) Dimensions are provided for estimating purposes only.

4) Drive without built in dynamic braking chopper. The external dynamic braking chopper module "DBW03XXXX" must be purchased separately. Please refer to CFW11 "Options and Accessories" section for more detail.

CFW900 Series – Variable Frequency Drive

The CFW900 is a high-tech Variable Frequency Drive (VFD) for driving and controlling three-phase induction and permanent magnet motors. It offers excellent static and dynamic performance and highly precise torque, speed, and position control. It can be used in a wide range of applications due to its high overload capacity. Thanks to its technology, the CFW900 VFD provides energy savings, safety, increased productivity, and quality in the process network in which it is implemented. It allows quick and easy access to the application information and configuration settings. Using a menu structure, the new interface of the CFW900 line offers an unprecedented user interactive experience, providing settings and configurations with a detailed description of the parameters right on the HMI, in addition to event logs with date and time and a setup wizard.

Standard Features

- IP20 enclosure protection class (UL Type 1 with optional kit).
- Dual DC link inductors enable compliance with IEC 61000-3-2 and 61000-3-12 requirements regarding harmonics (no need for external line reactance).
- Norma-duty and heavy-duty ratings to adapt to all kinds of loads.
- Conformal coated circuit board as per Class 3C2 in compliance with IEC 60721-3-3.
- Control Mode: Scalar, VVW (Voltage Vector WEG), Vector Control (sensorless and closed loop with encoder feedback), VVW PM (suitable for fan, pump, and compressor).
- Smart Thermal management allowing automatic adjustment of the switching frequency to keep the motor running in adverse conditions of high temperature.
- IoT: Ready VFD with MQTT protocol allows direct integration with WEG MFM.
- Specific PWM Modulation function eliminates the need of an output filter up to 200 m motor cable length.
- Four independent slots with the possibility of expansion to seven (7) slots to accommodate optional modules. (Any module can be mounted in any slot in any quantity, except the communication module which is limited to one per drive.)
- Detachable Modern Text/Graphic Keypad with USB port, built-in Bluetooth.
- (Bluetooth allows easy programming and and monitoring of CFW900 using.
- Cell phone app “WEG WPS”, real-time clock with event log, copy function, oriented start-up, and on-line help.
- Built-in as a standard:
 - RFI filter meeting the requirements of electromagnetic compatibility directive “EMC Directive 2004/108/EC.”
 - Advanced SoftPLC (PLC functionality)
 - 24 VDC power supply (maximum 800 mA); can also accept external 24 VDC power to keep control and communication circuits active.
 - RS-485 (Modbus RTU) port
 - Dual Ethernet ports (Ethernet/IP or Modbus TCP)
 - STO (Safe Torque Off) and SS1 (Safe Stop, time controlled) safety functions meet SIL3 and PI e / Category 4 requirements, eliminating need of Safety relay/safety contactors.



Applications

- Pumps
- Fans/blowers
- Conveyors
- Crushers
- Compressors
- Agitators and mixers
- Extruders
- Grizzly feeders
- Centrifuges
- Cranes and hoists
- Rollout tables
- Presses
- Saws

CFW900 Catalog Number Sequence

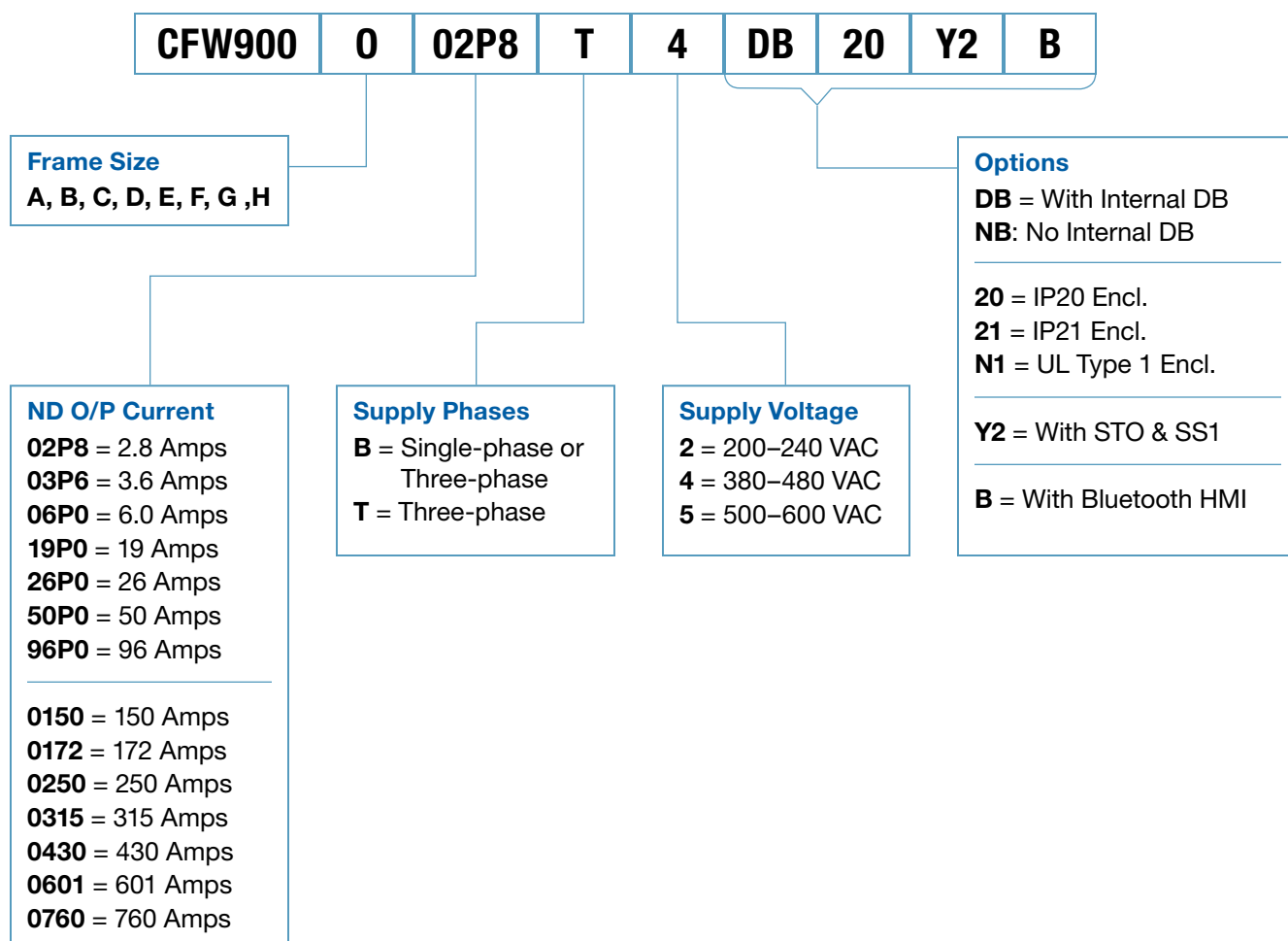


Chart intended as reference only and not to create part numbers.

Variable Frequency Drives



CFW900 Series

Drive Ratings

Normal Duty (ND) Cycle

- 110% for 60 seconds every five minutes
- 150% for three seconds every five minutes

Heavy Duty (HD) Cycle

- 150% for 60 seconds every five minutes
- 200% for three seconds every five minutes

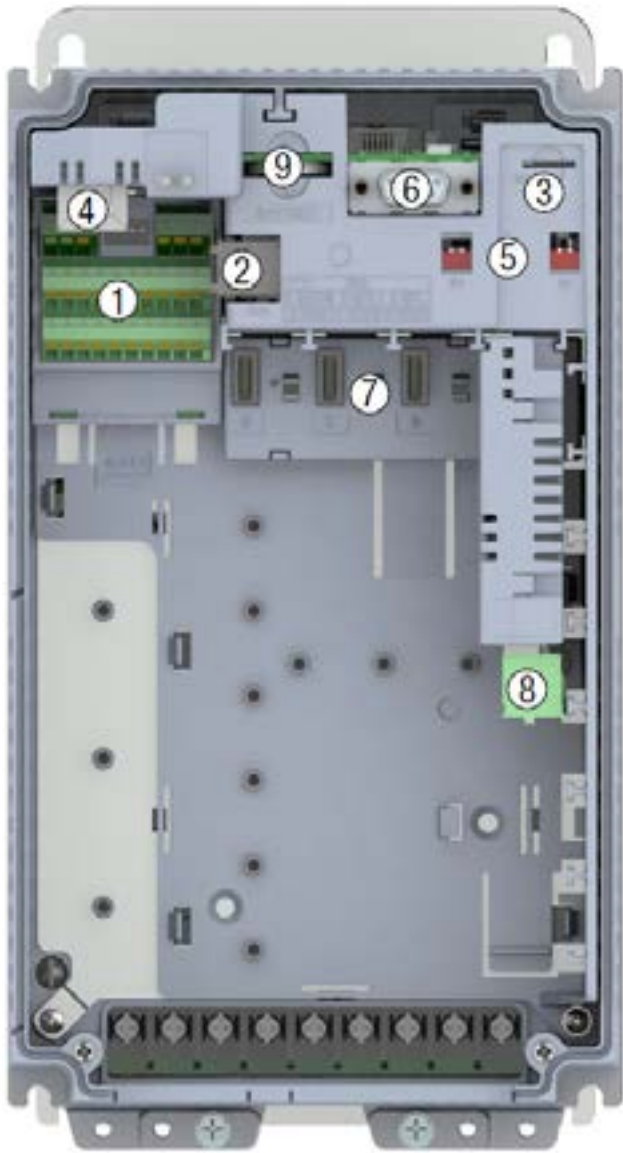
Sizing The Drive

The correct way to select a VFD is to match its output current with the motor-rated current. However, the tables in this catalog also present the expected motor horsepower for each VFD model as per WEG W22, four-pole NEMA Premium Motor ratings. Use these horsepower ratings only as a guide.



- A: Surface mount bracket
 B: Heatsink/back of inverter
 C: Fan with mounting bracket
 D: XC1 connector (CFW900-IOS)
 E: CFW900-REL accessory board module
 G: Front cover
 H: Human Machine Interface (HMI)

Controls Connectors



Item	Description
1	XC1 Connector (CFW900-IOS): Digital and analog inputs and outputs, input for external power supply and RS-485 communication
2	XC2 Connector (safety module): STO and SS1-t functions
3	XC3 Connector (microSD card slot): Allows copying parameters and storing SoftPLC programs (see the programming manual). The Micro SD Card is not supplied with CFW900 but is an optional accessory.
4	XC4A and XC4B Connectors: Dual port ethernet connection (RJ45) (see the ethernet communication manual)
5	DIP Switches S1 and S2: Safety module configuration
6	XC6 Connector: DB9 Connector for connecting the HMI/ remote HMI
7	Backplane CFW900-4SLOTS provides four (4) slots to connect accessories. By default, slot A is taken by the CFW900-REL-01. It can be replaced by the CFW900-7SLOTS, which has seven (7) slots for accessories.
8	XC30 (CFW900-REL-01): Relay output
9	CR2032 Battery for real time clock. Use non-conductive pliers or tweezers to remove/replace the battery.



CFW900-IP20 Enclosure

CFW900 With UL Type 1 Kit

CFW900 With IP21 Kit

Variable Frequency Drives



CFW900 Series

CFW900 – IP20 – 230 VAC

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size ⁴	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier Symbol	
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³								
230 VAC / Three-Phase	Input Power Supply: Single or Three-Phase 200–240 VAC with Dynamic Braking Transistor											
	1 1/2	4.6	1 1/2	4.6	CFW900A04P6B2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,570	V1P	
	2	6	2	6	CFW900A06P0B2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,644	V1P	
	2	7.5	2	7.5	CFW900A07P5B2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,716	V1P	
	3	10	3	10	CFW900A10P0B2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,812	V1P	
	Input Power Supply: Three-Phase 200–240 VAC with Dynamic Braking Transistor											
	1 1/2	4.6	1 1/2	4.6	CFW900A04P6T2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,049	V1P	
	2	6	1 1/2	5	CFW900A06P0T2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,154	V1P	
	2	7.5	2	6.8	CFW900A07P5T2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,296	V1P	
	3	10.6	3	9.6	CFW900A10P6T2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,354	V1P	
	5	13	3	11	CFW900A13P0T2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,469	V1P	
	7 1/2	19	5	16	CFW900A19P0T2DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,573	V1P	
	10	26	7 1/2	22	CFW900B26P0T2DB20Y2B	Yes	B	15.2 x 6.5 x 9	22.0	\$2,061	V1P	
	10	34	10	28	CFW900B34P0T2DB20Y2B	Yes	B	15.2 x 6.5 x 9	22.0	\$2,641	V1P	
	15	45	10	35	CFW900B45P0T2DB20Y2B	Yes	B	15.2 x 6.5 x 9	22.0	\$3,277	V1P	
	20	56	15	47	CFW900C56P0T2DB20Y2B	Yes	C	18.1 x 7.9 x 11.6	45.2	\$4,180	V1P	
	25	70	20/25	59	CFW900C70P0T2DB20Y2B	Yes	C	18.1 x 7.9 x 11.6	45.2	\$4,418	V1P	
	30	80	25	70	CFW900C80P0T2DB20Y2B	Yes	C	18.1 x 7.9 x 11.6	45.2	\$5,325	V1P	
	40	110	30	92	CFW900D0110T2DB20Y2B	Yes	D	24.6 x 9.8 x 11.6	73.8	\$6,525	V1P	
	50	135	40	110	CFW900D0135T2DB20Y2B	Yes	D	24.6 x 9.8 x 11.6	73.8	\$8,426	V1P	
	60	150	50	124	CFW900D0150T2DB20Y2B	Yes	D	24.6 x 9.8 x 11.6	73.8	\$9,972	V1P	
	75	172	60	150	CFW900E0172T2DB20Y2B	Yes	E	26.6 x 13.2 x 14.1	140.0	\$11,279	V1P	
	75	195	60	160	CFW900E0195T2DB20Y2B	Yes	E	26.6 x 13.2 x 14.1	140.0	\$13,890	V1P	
	100	250	75	211	CFW900E0250T2DB20Y2B	Yes	E	26.6 x 13.2 x 14.1	140.0	\$16,693	V1P	
	Input Power Supply: Three-Phase 200–240 VAC without Dynamic Braking Transistor											
	40	110	30	92	CFW900D0110T2NB20Y2B	No	D	24.6 x 9.8 x 11.6	73.8	\$6,840	V1P	
	50	135	40	110	CFW900D0135T2NB20Y2B	No	D	24.6 x 9.8 x 11.6	73.8	\$7,875	V1P	
	60	150	50	124	CFW900D0150T2NB20Y2B	No	D	24.6 x 9.8 x 11.6	73.8	\$8,698	V1P	
	75	172	60	150	CFW900E0172T2NB20Y2B	No	E	26.6 x 13.2 x 14.1	140.0	\$10,200	V1P	
	75	195	60	160	CFW900E0195T2NB20Y2B	No	E	26.6 x 13.2 x 14.1	140.0	\$11,725	V1P	
	100	250	75	211	CFW900E0250T2NB20Y2B	No	E	26.6 x 13.2 x 14.1	140.0	\$13,650	V1P	
	125	315	100	263	CFW900F0315T2NB20Y2B	No	F	42.3 x 14.6 x 14.2	222.6	\$19,913	V1P	
	150	370	125	315	CFW900F0370T2NB20Y2B	No	F	42.3 x 14.6 x 14.2	222.6	\$28,125	V1P	

Notes:
1) ND (Normal Duty) / VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds OR 150% overload for 3 seconds, every 5 minutes.
HD (Heavy Duty) / CT (Constant Torque Loads): 150% overload for 60 seconds OR 200% overload for 3 seconds, every 5 minutes.
2) "HP" rating based on WEG 4-Pole W22 motors' "average FLA values." Use as a guide only.
3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of the drive.
4) Frame A to D: Maximum 122°F (50°C) ambient temperature (w/o derating) with factory default settings for Intelligent Thermal Management (Active) and switching frequency (4 kHz).
Frame E and F: Maximum 113°F (45°C) ambient temperature (w/o derating) with factory default settings for Intelligent Thermal Management (Active) and switching frequency (2 kHz).



CFW900 – IP20 – 460 VAC

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size ⁴	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier Symbol
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
460 VAC / Three-Phase	Input Power Supply: Three-Phase 380–480 VAC with Dynamic Braking Transistor										
	2	2.8	1 1/2	2.4	CFW900A02P8T4DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,027	V1P
	2	3.6	2	2.8	CFW900A03P6T4DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,099	V1P
	3	4.8	2	3.9	CFW900A04P8T4DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,188	V1P
	5	6.5	3	5.3	CFW900A06P5T4DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,284	V1P
	7 1/2	9.6	5	8	CFW900A09P6T4DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,418	V1P
	10	14	7 1/2	12	CFW900A14P0T4DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$1,903	V1P
	10	17	10	17	CFW900A17P0T4DB20Y2B	Yes	A	10.6 x 5.7 x 8.7	9.9	\$2,250	V1P
	15/20	26	15	21	CFW900B26P0T4DB20Y2B	Yes	B	15.2 x 6.5 x 9	22.0	\$2,530	V1P
	25	33	20	28	CFW900B33P0T4DB20Y2B	Yes	B	15.2 x 6.5 x 9	22.0	\$3,138	V1P
	30	39	25	33	CFW900B39P0T4DB20Y2B	Yes	B	15.2 x 6.5 x 9	22.0	\$4,042	V1P
	40	50	30	40	CFW900C50P0T4DB20Y2B	Yes	C	18.1 x 7.9 x 11.6	45.2	\$5,130	V1P
	50	62	40	50	CFW900C62P0T4DB20Y2B	Yes	C	18.1 x 7.9 x 11.6	45.2	\$6,468	V1P
	60	74	50	62	CFW900C74P0T4DB20Y2B	Yes	C	18.1 x 7.9 x 11.6	45.2	\$7,500	V1P
	75	96	60	75	CFW900D96P0T4DB20Y2B	Yes	D	24.6 x 9.8 x 11.6	73.8	\$9,854	V1P
	100	124	75	103	CFW900D0124T4DB20Y2B	Yes	D	24.6 x 9.8 x 11.6	73.8	\$11,045	V1P
	125	146	100	124	CFW900D0146T4DB20Y2B	Yes	D	24.6 x 9.8 x 11.6	73.8	\$12,037	V1P
	150	172	125	146	CFW900E0172T4DB20Y2B	Yes	E	26.6 x 13.2 x 14.1	140.0	\$13,642	V1P
	175	203	125	161	CFW900E0203T4DB20Y2B	Yes	E	26.6 x 13.2 x 14.1	140.0	\$16,291	V1P
	200	242	150	190	CFW900E0242T4DB20Y2B	Yes	E	26.6 x 13.2 x 14.1	140.0	\$19,549	V1P
	Input Power Supply: Three-Phase 380–480 VAC without Dynamic Braking Transistor										
	75	96	60	75	CFW900D96P0T4NB20Y2B	No	D	24.6 x 9.8 x 11.6	73.8	\$8,726	V1P
	100	124	75	103	CFW900D0124T4NB20Y2B	No	D	24.6 x 9.8 x 11.6	73.8	\$10,434	V1P
	125	146	100	124	CFW900D0146T4NB20Y2B	No	D	24.6 x 9.8 x 11.6	73.8	\$12,000	V1P
	150	172	125	146	CFW900E0172T4NB20Y2B	No	E	26.6 x 13.2 x 14.1	140.0	\$14,100	V1P
	175	203	125	161	CFW900E0203T4NB20Y2B	No	E	26.6 x 13.2 x 14.1	140.0	\$16,450	V1P
	200	242	150	190	CFW900E0242T4NB20Y2B	No	E	26.6 x 13.2 x 14.1	140.0	\$18,690	V1P
	250	315	200	263	CFW900F0315T4NB20Y2B	No	F	42.3 x 14.6 x 14.2	222.6	\$23,200	V1P
	300	370	250	315	CFW900F0370T4NB20Y2B	No	F	42.3 x 14.6 x 14.2	222.6	\$25,678	V1P
	350	430	300	370	CFW900G0430T4NB20Y2B	No	G	50.00 x 16.9 x 14.2	407.8	\$28,214	V1P
	400	480	350	430	CFW900G0480T4NB20Y2B	No	G	50.00 x 16.9 x 14.2	407.8	\$32,002	V1P
	450	540	400	480	CFW900G0540T4NB20Y2B	No	G	50.00 x 16.9 x 14.2	407.8	\$34,297	V1P
	500	601	450	515	CFW900G0601T4NB20Y2B	No	G	50.00 x 16.9 x 14.2	407.8	\$37,066	V1P
	650	760	500	601	CFW900H0760T4NB20Y2B	No	H	51.3 x 21.6 x 16.8	533.5	\$43,373	V1P

Notes:
1) ND (Normal Duty) / VT (Variable Torque Loads): 110% overload for 60 seconds OR 150% overload for 3 seconds, every 5 minutes.
HD (Heavy Duty) / CT (Constant Torque Loads): 150% overload for 60 seconds OR 200% overload for 3 seconds, every 5 minutes.
2) "HP" rating based on WEG 4-Pole W22 motors "average FLA values." Use as a guide only.
3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of the drive.
4) Frame A to D: Maximum 122°F (50°C) ambient temperature (w/o derating) with factory default settings for Intelligent Thermal Management (Active) and switching frequency (4 kHz).
Frame E to H: Maximum 113°F (45°C) ambient temperature (w/o derating) with factory default settings for Intelligent Thermal Management (Active) and switching frequency (2 kHz).

Variable Frequency Drives



CFW900 Series

Options & Accessories

Type	Catalog Number	Description	Apprx. Shpg. Wt. (lbs)	List Price	Multiplier Symbol
CFW900 I/O Expansion Modules ¹	CFW900-IOAI-01	- Three (3) isolated analog inputs: - Impedance: > 400 Kohm (Voltage), 250 Ohm (Current) - AI1: Voltage 0–10 V, 12 bits; Current 0/4–20 mA, 11 bits - AI2 & AI3: Voltage -10/0–10 V, 11 bits + signal - Current: 0/4–20 mA, 10 bits - Two isolated analog outputs: - RL ≥ 1 Kohm (voltage) or RL ≤ 600 ohm (current) - AO1 & AO2: voltage 0–10 V, 12 bits - Current: 0/4–20 mA, 12 bits	0.5	\$605	V1P
	CFW900-IOD-01	- Eight (8) configurable (NPN or PNP) isolated inputs, maximum voltage: 30 VDC - Eight (8) configurable isolated digital outputs with solid-state relay: 30 VDC	0.5	\$455	V1P
	CFW900-REL-01	- Three (3) relay outputs (one module supplied as a standard with CFW900 Drive) - Relay output number 1: Form C (NO & NC contacts) - Relay Output number 2 & 3: Form A (NO contact) - Maximum voltage: 30 VDC, 250 VAC, OVC III - Maximum current: 2 A	0.5	\$200	V1P
Temperature Transducers Modules ¹	CFW900-TEMP-01	Six (6) isolated inputs for PTC / PT100 or PT1000 Sensors (2-wire or 3-wire connections). All sensors must be of same type.	0.5	\$390	V1P
Encoder Modules ¹	CFW900-ENC-01	Incremental encoder with a signal up to 310 kHz and repeater	0.5	\$435	V1P
Communication Modules ²	CFW900-CCAN-W	CAN interface module (CANopen / DeviceNet)	0.5	\$275	V1P
	CFW900-CPDP-N	Profibus DP-V1 interface module	0.5	\$1,460	V1P
	CFW900-CPN-IRT-N	ProfiNet IRT interface module: two (2) ports	0.5	\$2,810	V1P
	CFW900-CECAT-N	EtherCAT interface module: two (2) ports	0.5	\$2,065	V1P
Backplane-slot for Accessories	CFW900-4SLOTS	Backplane with four (4) slots (supplied as a standard with CFW900 Drive)	0.5	\$200	V1P
	CFW900-7SLOTS	Backplane with seven (7) slots	0.5	\$250	V1P
Keypad Accessories	CFW900-HMI-BLT	CFW900 standard keypad with Bluetooth	0.2	\$390	V1P
	CFW900-RHMIF	CFW900 Remote keypad frame kit, UL Type 12	0.5	\$70	V1P
Remote Keypad Cables	CFW900-CCHMIR01M	1 m (3.3 ft) Remote Keypad Cable	0.7	\$55	V1P
	CFW900-CCHMIR02M	2 m (6.6 ft) Remote Keypad Cable	1.5	\$60	V1P
	CFW900-CCHMIR03M	3 m (10 ft) Remote Keypad Cable	2	\$70	V1P
	CFW900-CCHMIR05M	5 m (16 ft) Remote Keypad Cable	2.6	\$80	V1P
	CFW900-CCHMIR07M	7.5 m (25 ft) Remote Keypad Cable	3.3	\$95	V1P
	CFW900-CCHMIR10M	10 m (33 ft) Remote Keypad Cable	4.0	\$105	V1P
UL Type 1 (NEMA 1) Kits	CFW900-KN1A	UL Type 1 (NEMA 1): Conduit kit for CFW900 frame size A	22.0	\$85	V1P
	CFW900-KN1B	UL Type 1 (NEMA 1): Conduit kit for CFW900 frame size B	16.0	\$105	V1P
	CFW900-KN1C	UL Type 1 (NEMA 1): Conduit kit for CFW900 frame size C	18.0	\$120	V1P
	CFW900-KN1D	UL Type 1 (NEMA 1): Conduit kit for CFW900 frame size D	28.0	\$170	V1P
	CFW900-KN1E	UL Type 1 (NEMA 1): Conduit kit for CFW900 frame size E	28.0	\$220	V1P
IP21 Kits	CFW900-IP21A	IP21: Kit for CFW900 frame size A (top cover)	8.5	\$100	V1P
	CFW900-IP21B	IP21: Kit for CFW900 frame size B (top cover)	8.5	\$105	V1P
	CFW900-IP21C	IP21: Kit for CFW900 frame size C (top cover)	8.5	\$110	V1P
	CFW900-IP21D	IP21: Kit for CFW900 frame size D (top cover)	8.8	\$125	V1P
	CFW900-IP21E	IP21: Kit for CFW900 frame size E (top cover)	10.7	\$140	V1P
Assembly Kit for Ventilation Ducts	CFW900-KDF-01 ³	Air Intake Assembly	10.36	\$230	V1P
	CFW900-KDF-02 ³	Air Extraction Assembly	10.32	\$230	V1P
Flange Mounting Kit	CFW900-KMFA	Flange mounting kit for frame size A	4.5	\$179	V1P
	CFW900-KMFB	Flange mounting kit for frame size B	4.7	\$215	V1P
	CFW900-KMFC	Flange mounting kit for frame size C	4.8	\$251	V1P
	CFW900-KMFD	Flange mounting kit for frame size D	4.9	\$287	V1P
	CFW900-KMFE	Flange mounting kit for frame size E	4.9	\$341	V1P
	CFW900-KMFF	Flange mounting kit for frame size F	5.3	\$449	V1P
	CFW900-KMFG	Flange mounting kit for frame size G	5.5	\$502	V1P
	CFW900-KMFH	Flange mounting kit for frame size H	5.5	\$556	V1P
microSD Card	SDC-8GB ³	8 GB industrial temperature micro SD card	0.5	\$290	V1P
Demo Suitcase	CFW900-DEMO-ENC-BLK	CFW900 Demo Suitcase (black color) with Encoder	48.0	\$11,390	V1P

Notes:
1) These accessories can be installed in any available slot of the Drive. Up to seven accessories of the same type can be used.
2) It is only possible to use one communication module per inverter.
3) Kit applicable to E,F,G & H frames. Below mentioned QTYs are required for respected frame size.
For Frame E & F : CFW900-KDF-01 – QTY 1, CFW900-KDF-02 -QTY 2
For Frame G : CFW900-KDF-01 – QTY 2, CFW900-KDF-02 -QTY 2
For Frame H : CFW900-KDF-01 – QTY 3, CFW900-KDF-02 -QTY 3

Technical Data

Input AC Power Supply	Voltage	Single-phase or three-phase	Frame A, B & C: 200–240 VAC (+10%, -15%)
			Frame D, E & F: 208–240 VAC (+10%, -15%) 208–220 VAC (+10%, -10%)
		Three-phase	380–480 VAC (+10%, -15%)
	Frequency	50/60 Hz (Range: 48–63 Hz)	
	Phase unbalance	≤ 3% between line voltages	
	Overvoltages / transients	Category III (EN 61010 / IEC61800-5-1 / UL61800-5-1)	
	Drive Power Factor at Rated Conditions – ND (Normal Duty)	For single-phase or three-phase, 200 VAC drives (B2)	Single-phase: 0.70
		For three-phase (T2 or T4)	Three-phase: 0.77
	Inverter displacement factor (cos phi)	≥ 0.98	
	Harmonic distortion of the input current (THDi)	≤ 42% for 75–100% of drive nominal output current (ND) for balanced power supply	
Drive Output	Output Frequency	0–500 Hz for Frame A to D ¹	
		0–250 Hz for Frame E to H ¹	
	Switching Frequency	Rated ²	Frames A to D: 4 kHz
			Frames E to H: 2 kHz
		Adjustment range ^{3,4}	Frames A to D: 1.5–16 kHz
			Frame E: 1–8 kHz
General Data	Maximum motor Cable length	No need to use output filter: 200 m (over 100 m, it is necessary to use PWM modulation for long cables) ⁵	
	RFI Filter	Built-in as a standard; Category C3	
Enclosure	Drive	IP20 (UL Type 1 with optional kit)	
	Drive heat sink	UL Type 12	
Ambient	Maximum operating ambient temperature without D-rating (with active smart thermal management feature) ⁶	Surface Mounting	Frames A to D: 122°F (50°C)
			Frames E to H: 113°F (45°C)
		Flange Mounting	Frame A to E front: 140°F (60°C) ⁷
			Frame F to H front: 131°F (55°C) ⁷
			Frame A to D Heatsink: 122°F (50°C)
			Frame E to H Heatsink: 113°F (45°C)
	Min. operating ambient temperature	-10°C (14°F)	
	Humidity	5–95% Non-condensing	
	Altitude	0–3,300 ft (01,000 m) w/o derating; up to 13,200 ft (4,000 m) with derating ⁸	
	Pollution degree	2 (EN50178 / IEC61800-5-1 / UL61800-5-1)	
	Conformal coating	3C2 (IEC 60721-3-3:2002)	

Notes:

- ¹ This output frequency range is valid considering the factory settings (e.g., rated switching frequency). It is possible to operate with higher output frequencies, limited to 1,000 Hz, but the rated switching frequency must be increased. In these cases, WEG must be consulted.
- ² The switching frequency can be automatically reduced due to inverter output overload, high ambient temperature, obstruction of air the circulation around the heatsink and/or operation with low output frequency.
- ³ For an operation with a switching frequency above the rated switching frequency, it is necessary to derate the drive output current. Please refer to the CFW900 user manual for more information.
- ⁴ Adjustment in 0.1 kHz steps.
- ⁵ The modulation type can be changed in parameter C1.4.1
- ⁶ The CFW900 can be used up to 140°F (60°C) maximum ambient temperature with derating. Please refer to the CFW900 user manual for proper derating factor.
- ⁷ Exception: models CFW900C74P0T4 and CFW900D0146T4 that have specification of 131°F (55°C). For operation above 131°F (55°C), apply a derating of 2% per °C.
- ⁸ Please refer to the CFW900 user manual for proper derating factor for altitude higher than 1,000 meter.

Variable Frequency Drives



CFW900 Series

Technical Data

Motor Control	Method	Voltage Source
	Type of Control	V/f (Scalar)
		VVW: Voltage Vector WEG
		Vector control with encoder
		Sensorless Vector control
	Supported Motors	Induction Machine Permanent magnet motor
Safety	Modulation	SVPWM space vector PWM standard
		PWM optimized for long output cables
	Measurements and indications	Current measurement accuracy: 5% of the rated current
		Speed resolution: 1 rpm
		Built-in real-time clock
	Drive Protection	Output overcurrent/short-circuit
		Under/overvoltage
		Phase loss
		Overtemperature
		Overload on the motor, braking resistor and IGBTs
		Output phase-ground short-circuit
		External Fault/Alarm
	Functions (Built-in)	Safe Torque Off (STO) as per IEC 61800-5-2 or Stop category 0 as per IEC 60204-1
		Safe stop one time controlled (SS1-t) as per IEC 61800-5-2 or STOP category 1 as per IEC 60204-1
	Category	SIL 3, as per IEC 61508 / IEC 62061 / IEC 61800-5-2
		PL e / category 4, as per ISO 13849-1
	STO1 & STO2 Digital Input	Redundant inputs for OSSD signals or dry contact signals
	SP1 & SP2 test digital output	Outputs to power dry contact
	24VS power supply input	Input for 24 V power supply $\pm 15\%$ to the internal safety module
Integral Keypad (HMI)	12 operator keys: Run/Stop, Direction of Rotation, Jog, Local/ Remote and browsing buttons: Left, Right, Up, Down, Enter, Back and Help	
	Graphical LCD display	
	View/edition of all parameters	
	Option of external mounting using:	
	1. Unshielded pin-to-pin DB9 cable up to 20 m	
	2. Shielded pin-to-pin DB9 cable up to 100 m	
	Communication with smartphone using Bluetooth (for models equipped with CFW900-HMI-BLT)	
	USB communication with PC using WEG WPS	
MicroSD Card Slot	Allows powering the HMI and the control board through the USB port for inverter parameterization without powering up the network or DC link.	
	Bluetooth	
	One (1) microSD card slot	
	Graphical LCD display	
	View/edition of all parameters	
	Card requirements:	
	Maximum size of 32 GB; Industrial Temperature: -40–185°F (-40–85°C) FAT32 file system.	
	MicroSD card not included with Drive	

Technical Data

Digital Inputs	Six (6) digital inputs	
	Digital input DI1 to DI4	Isolated digital inputs
		Low level: VDC -3 to 5 V, I < 1.5 mA
		High level: VDC > 11 V, I > 2 mA
		Current 8 mA @ 24V (Typical)
		Maximum voltage: 30 VDC
		Maximum current: 11 mA @ 30 VDC
	Digital input DI5 & DI6	Isolated digital inputs
		Low level: VDC -3 to 5 V, I < 1.5 mA
		High level: VDC > 11 V, I > 2 mA
		Current 8 mA @ 24V (Typical)
		Maximum voltage: 30 VDC
Digital Outputs	Two (2) transistor digital outputs (NPN)	
	Isolated from power circuits	
	Maximum current: 40 mA	
	Protected against short circuit to the Ground (GND)	
	Maximum voltage: 24 VDC	
	With freewheeling diode for 24 VDC power supply	
	Maximum frequency: 32 kHz	
Relay Outputs (supplied with drive as a standard using one (1) CFW900-REL-01 module)	Three (3) relay outputs	
	Three (3) relay outputs: Form C (NO & NC contacts); Relay output number 2 & 3: Form A (no contact)	
	Maximum voltage: 30 VDC, 250 VAC, OVC III	
	Maximum current: 2 A	
	Minimum current: 10 mA @ 5 VDC	
	400 V TVS between contacts	
	Functional isolation between each relay output	
Analog Inputs	Two (2) differential analog inputs	
	Isolated from power circuits	
	Levels: -10/0 to +10 V (11-bit + signal), 0/4 to 20 mA (10-bit)	
	Maximum voltage: 30 V	
	Maximum current: 25 mA	
	Impedance: 400 k Ω (voltage mode), 250 Ω (current mode)	
Analog Outputs	Two (2) analog outputs	
	Isolated from power circuits	
	Levels: 0 to 10 V (12 bits), 0 to 20 mA or 4 to 20 mA (12 bits)	
	Load: $R_L \geq 1$ Kohm (Voltage) or $R_L \leq 600$ ohm (current)	
Communication	RS-485	Isolated RS-485 Interface
		Modbus RTU Protocol
		Can be used to program the inverter via WEG WPS software application
	Dual Ethernet Ports	Two (2) RJ-45 Ethernet connectors
		10/100 Mbps data rate with built-in dual port switch
		Protocol: Ethernet/IP or Modbus TCP
		Can be used to program the inverter via WEG WPS software application

Variable Frequency Drives



CFW900 Series

Technical Data

Safety Standards	UL61800-5-1: "Adjustable Speed Electrical Power Drive Systems – Part 5-1: Safety Requirements – Electrical, Thermal and Energy" Notes: "Suitable for installation in a compartment handling conditioned air"	
	EN 61800-5-1: "Safety requirements electrical, thermal and energy" isolated digital inputs	
	EN 50178: "Electronic equipment for use in power installations"	
Specification Standards	EN 60146 (IEC 146): "Semiconductor converters"	
	EN 61800-2: "Adjustable speed electrical power drive systems – Part 2: general requirements – Rating specifications for low voltage adjustable frequency AC power drive systems"	
Electromagnetic Compatibility Standards (EMC)	EN 61800-3: "Adjustable speed electrical power drive systems – Part 3: EMC product standard including specific test methods"	
	EN 55011: "Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment"	
	CISPR 11: Industrial, scientific and medical (ISM) radio-frequency equipment isolated digital inputs	
	EN 61000-4-2: "Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 2: electrostatic discharge immunity test"	
	EN 61000-4-3: "Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 3: radiated, radio-frequency, electromagnetic field immunity test"	
	EN 61000-4-4: "Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 4: electrical fast transient/burst immunity test"	
	EN 61000-4-5: "Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 5: surge immunity test"	
	EN 61000-4-6: "Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 6: immunity to conducted disturbances, induced by radio-frequency fields"	
	EN 61000-4-11: "Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests"	
Frame Standards	EN 60529: "Degrees of protection provided by enclosures (IP code)"	
	UL 50: "Enclosures for electrical equipment"	
Ecodesign Standards	IEC 61800-9-2 Parts 1 & 2: "Adjustable speed electrical power drive systems – Ecodesign for power drive systems, motor starters, power electronics and their driven applications"	
Functional Safety Standards	EN 61800-5-2: Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional	
	EN ISO 13849-1: Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design	
	EN 62061: Safety of machinery – Functional safety of safety-related control systems	
	IEC 61508 Parts 1-7: Functional safety of electrical/electronic/programmable electronic safety-related systems	
	EN 60204-1: Safety of machinery – Electrical equipment of machines – Part 1: General requirements	
Directives	Low-Voltage	2014/35/EU
	EMC	2014/30/EU
	RoHS	2011/65/EU 2015/863/EU
	Ecodesign	2009/125/EC
	Machinery	2006/42/EC
Certifications	cULus	E184430
	Functional Safety	TÜV Rheinland Certificate
	CE	European Community
	UKCA	United Kingdom
	EAC	Russia
	C-Tick	Australia & New Zealand
	UL MX NOM	Mexico
	IRAM	Argentina

Dynamic Braking Resistors – 100% Braking Torque at 20% Duty Cycle (12 Seconds Maximum Braking Time) – NEMA 1 Enclosure

Motor Voltage	Motor HP (ND) ¹	CFW900 Catalog Number	Braking Resistor Catalog Number ²	Rated Ohms	Rated Watts	Dimensions (in) H x W x D ³	List Price	Multiplier New (old)
3/230 VAC	1 1/2	CFW900A04P6B2DB20Y2B	CFDB2-38-746	38	920	5 x 12 x 10	\$1,025	GA (V1)
	2	CFW900A06P0B2DB20Y2B	CFDB2-38-746	38	920	5 x 12 x 10	\$1,025	GA (V1)
	2	CFW900A07P5B2DB20Y2B	CFDB2-26-1119	26	1,170	5 x 12 x 13	\$1,225	GA (V1)
	3	CFW900A10P0B2DB20Y2B	CFDB2-13-2238	12.6	2,580	5 x 19 x 10	\$1,775	GA (V1)
	1 1/2	CFW900A04P6T2DB20Y2B	CFDB2-63-448	63	500	5 x 12 x 7	\$825	GA (V1)
	2	CFW900A06P0T2DB20Y2B	CFDB2-63-448	63	500	5 x 12 x 7	\$825	GA (V1)
	2	CFW900A07P5T2DB20Y2B	CFDB2-38-746	38	920	5 x 12 x 10	\$1,025	GA (V1)
	3	CFW900A10P6T2DB20Y2B	CFDB2-19-1492	19	1,676	5 x 12 x 16	\$1,430	GA (V1)
	5	CFW900A13P0T2DB20Y2B	CFDB2-19-1492	19	1,676	5 x 12 x 16	\$1,430	GA (V1)
	7 1/2	CFW900A19P0T2DB20Y2B	CFDB2-13-2238	12.6	2,580	5 x 19 x 10	\$1,775	GA (V1)
	10	CFW900B26P0T2DB20Y2B	CFDB2-13-2238	12.6	2,580	5 x 19 x 10	\$1,775	GA (V1)
	10	CFW900B34P0T2DB20Y2B	CFDB2-13-2238	12.6	2,580	5 x 19 x 10	\$1,775	GA (V1)
	15	CFW900B45P0T2DB20Y2B	CFDB2-13-2238	12.6	2,580	5 x 19 x 10	\$1,775	GA (V1)
	20	CFW900C56P0T2DB20Y2B	CFDB2-8-3730	7.5	4,214	5 x 19 x 13	\$2,150	GA (V1)
	25	CFW900C70P0T2DB20Y2B	CFDB2-7-4476	6.3	5,001	5 x 26.5 x 13	\$2,780	GA (V1)
	30	CFW900C80P0T2DB20Y2B	CFDB2-7-4476	6.3	5,001	5 x 26.5 x 13	\$2,780	GA (V1)
	40	CFW900D0110T2DB20Y2B	CFDB2-4-7460	3.9	7,800	10 x 28 x 10	\$4,095	GA (V1)
	50	CFW900D0135T2DB20Y2B	CFDB2-4-7460	3.9	7,800	10 x 28 x 10	\$4,095	GA (V1)
	60	CFW900D0150T2DB20Y2B	CFDB2-4-7460	3.9	7,800	10 x 28 x 10	\$4,095	GA (V1)
	75	CFW900E0172T2DB20Y2B	CFDB2-3-11190	2.7	12,150	10 x 28 x 13	\$6,010	GA (V1)
	75	CFW900E0195T2DB20Y2B	CFDB2-3-11190	2.7	12,150	10 x 28 x 13	\$6,010	GA (V1)
	100	CFW900E0250T2DB20Y2B	CFDB2-3-11190	2.7	12,150	10 x 28 x 13	\$6,010	GA (V1)
3/460 VAC	2	CFW900A02P8T4DB20Y2B	CFDB2-100-1119	100	1,280	5 x 12 x 13	\$1,225	GA (V1)
	2	CFW900A03P6T4DB20Y2B	CFDB2-100-1119	100	1,280	5 x 12 x 13	\$1,225	GA (V1)
	3	CFW900A04P8T4DB20Y2B	CFDB2-100-1119	100	1,280	5 x 12 x 13	\$1,225	GA (V1)
	5	CFW900A06P5T4DB20Y2B	CFDB2-100-1119	100	1,280	5 x 12 x 13	\$1,225	GA (V1)
	7 1/2	CFW900A09P6T4DB20Y2B	CFDB2-75-1492	75	1,815	5 x 12 x 16	\$1,430	GA (V1)
	10	CFW900A14P0T4DB20Y2B	CFDB2-38-2984	38	3,352	5 x 19 x 16	\$2,365	GA (V1)
	10	CFW900A17P0T4DB20Y2B	CFDB2-30-3730	30	4,374	5 x 26.5 x 13	\$2,700	GA (V1)
	15/20	CFW900B26P0T4DB20Y2B	CFDB2-38-2984	38	3,352	5 x 19 x 16	\$2,365	GA (V1)
	25	CFW900B33P0T4DB20Y2B	CFDB2-38-2984	38	3,352	5 x 19 x 16	\$2,365	GA (V1)
	30	CFW900B39P0T4DB20Y2B	CFDB2-19-5968	19	6,703	5 x 26.5 x 16	\$3,155	GA (V1)
	40	CFW900C50P0T4DB20Y2B	CFDB2-19-5968	19	6,703	5 x 26.5 x 16	\$3,155	GA (V1)
	50	CFW900C62P0T4DB20Y2B	CFDB2-19-5968	19	6,703	5 x 26.5 x 16	\$3,155	GA (V1)
	60	CFW900C74P0T4DB20Y2B	CFDB2-10-11190	10	12,800	10 x 28 x 16	\$6,050	GA (V1)
	75	CFW900D96P0T4DB20Y2B	CFDB2-5-22380	5	25,600	24 x 30 x 18	\$12,655	GA (V1)
	100	CFW900D0124T4DB20Y2B	CFDB2-5-22380	5	25,600	24 x 30 x 18	\$12,655	GA (V1)
	125	CFW900D0146T4DB20Y2B	CFDB2-5-22380	5	25,600	24 x 30 x 18	\$12,655	GA (V1)
	150	CFW900E0172T4DB20Y2B	CFDB2-5-29840	3.8	33,516	24 x 30 x 18	\$12,655	GA (V1)
	175	CFW900E0203T4DB20Y2B	CFDB2-5-29840	3.8	33,516	24 x 30 x 18	\$12,655	GA (V1)
	200	CFW900E0242T4DB20Y2B	CFDB2-4-29840	3.8	33,516	30 x 18 x 32	\$12,655	GA (V1)

Notes:

1) "HP" rating based on WEG 4-Pole W22 motors' "average FLA values." Use as a guide only.

2) Dynamic Braking Resistors are non-stock items. Consult WEG for availability.

3) Dimensions are provided for estimating purposes only.

CFW900 Series

Dynamic Braking Resistors – 100% Braking Torque at 50% Duty Cycle
(30 Seconds Maximum Braking Time) – NEMA 1 Enclosure

Motor Voltage	Motor HP (ND) ¹	CFW900 Catalog Number	Braking Resistor Catalog Number ²	Rated Ohms	Rated Watts	Dimensions (in) H x W x D ³	List Price	Multiplier New (old)
3/230 VAC	1 1/2	CFW900A04P6B2DB20Y2B	CFDB5-38-1865	38	2,299	5 x 19 x 13	\$1,965	GA (V1)
	2	CFW900A06P0B2DB20Y2B	CFDB5-38-1865	38	2,299	5 x 19 x 13	\$1,965	GA (V1)
	2	CFW900A07P5B2DB20Y2B	CFDB5-26-2798	26	2,925	5 x 26.5 x 13	\$2,700	GA (V1)
	3	CFW900A10P0B2DB20Y2B	CFDB5-13-5595	12.6	6,451	5 x 26.5 x 16	\$3,155	GA (V1)
	1 1/2	CFW900A04P6T2DB20Y2B	CFDB5-63-1119	63	1,250	5 x 12 x 10	\$1,225	GA (V1)
	2	CFW900A06P0T2DB20Y2B	CFDB5-63-1119	63	1,250	5 x 12 x 10	\$1,225	GA (V1)
	2	CFW900A07P5T2DB20Y2B	CFDB5-38-1865	38	2,299	5 x 19 x 13	\$1,965	GA (V1)
	3	CFW900A10P6T2DB20Y2B	CFDB5-19-3730	19	4,190	5 x 26.5 x 13	\$2,700	GA (V1)
	5	CFW900A13P0T2DB20Y2B	CFDB5-19-3730	19	4,190	5 x 26.5 x 13	\$2,700	GA (V1)
	7 1/2	CFW900A19P0T2DB20Y2B	CFDB5-13-5595	12.6	6,451	5 x 26.5 x 16	\$3,155	GA (V1)
	10	CFW900B26P0T2DB20Y2B	CFDB5-13-5595	12.6	6,451	5 x 26.5 x 16	\$3,155	GA (V1)
	10	CFW900B34P0T2DB20Y2B	CFDB5-13-5595	12.6	6,451	5 x 26.5 x 16	\$3,155	GA (V1)
	15	CFW900B45P0T2DB20Y2B	CFDB5-13-5595	12.6	6,451	5 x 26.5 x 16	\$3,155	GA (V1)
	20	CFW900C56P0T2DB20Y2B	CFDB5-8-9325	7.5	10,534	10 x 28 x 13	\$4,990	GA (V1)
	25	CFW900C70P0T2DB20Y2B	CFDB5-7-11190	6.3	12,502	10 x 28 x 16	\$5,620	GA (V1)
	30	CFW900C80P0T2DB20Y2B	CFDB5-7-11190	6.3	12,502	10 x 28 x 16	\$5,620	GA (V1)
	40	CFW900D0110T2DB20Y2B	CFDB5-4-18650	3.9	19,500	24 x 30 x 18	\$11,025	GA (V1)
	50	CFW900D0135T2DB20Y2B	CFDB5-4-18650	3.9	19,500	24 x 30 x 18	\$11,025	GA (V1)
	60	CFW900D0150T2DB20Y2B	CFDB5-4-18650	3.9	19,500	24 x 30 x 18	\$11,025	GA (V1)
	75	CFW900E0172T2DB20Y2B	CFDB5-3-27975	2.7	30,375	32 x 30 x 18	\$16,420	GA (V1)
	75	CFW900E0195T2DB20Y2B	CFDB5-3-27975	2.7	30,375	32 x 30 x 18	\$16,420	GA (V1)
	100	CFW900E0250T2DB20Y2B	CFDB5-3-27975	2.7	30,375	32 x 30 x 18	\$16,420	GA (V1)
3/460 VAC	2	CFW900A02P8T4DB20Y2B	CFDB5-100-2798	100	3,200	5 x 19 x 16	\$2,365	GA (V1)
	2	CFW900A03P6T4DB20Y2B	CFDB5-100-2798	100	3,200	5 x 19 x 16	\$2,365	GA (V1)
	3	CFW900A04P8T4DB20Y2B	CFDB5-100-2798	100	3,200	5 x 19 x 16	\$2,365	GA (V1)
	5	CFW900A06P5T4DB20Y2B	CFDB5-100-2798	100	3,200	5 x 19 x 16	\$2,365	GA (V1)
	7 1/2	CFW900A09P6T4DB20Y2B	CFDB5-75-3730	75	4,538	5 x 26.5 x 16	\$3,155	GA (V1)
	10	CFW900A14P0T4DB20Y2B	CFDB5-38-7460	38	8,379	10 x 28 x 13	\$4,555	GA (V1)
	10	CFW900A17P0T4DB20Y2B	CFDB5-30-9325	30	10,935	10 x 28 x 16	\$5,050	GA (V1)
	15/20	CFW900B26P0T4DB20Y2B	CFDB5-38-7460	38	8,379	10 x 28 x 13	\$4,555	GA (V1)
	25	CFW900B33P0T4DB20Y2B	CFDB5-38-7460	38	8,379	10 x 28 x 13	\$4,555	GA (V1)
	30	CFW900B39P0T4DB20Y2B	CFDB5-19-14920	19	16,758	24 x 30 x 18	\$9,460	GA (V1)
	40	CFW900C50P0T4DB20Y2B	CFDB5-19-14920	19	16,758	24 x 30 x 18	\$9,460	GA (V1)
	50	CFW900C62P0T4DB20Y2B	CFDB5-19-14920	19	16,758	24 x 30 x 18	\$9,460	GA (V1)
	60	CFW900C74P0T4DB20Y2B	CFDB5-10-27975	10	32,000	32 x 30 x 18	\$15,605	GA (V1)
	75	CFW900D96P0T4DB20Y2B	CFDB5-5-55950	5	64,000	48 x 30 x 18	\$20,070	GA (V1)
	100	CFW900D0124T4DB20Y2B	CFDB5-5-55950	5	64,000	48 x 30 x 18	\$20,070	GA (V1)
	125	CFW900D0146T4DB20Y2B	CFDB5-5-55950	5	64,000	48 x 30 x 18	\$20,070	GA (V1)
	150	CFW900E0172T4DB20Y2B	CFDB5-4-74600	3.8	83,790	30 x 18 x 72	\$33,780	GA (V1)
	175	CFW900E0203T4DB20Y2B	CFDB5-4-74600	3.8	83,790	30 x 18 x 72	\$33,780	GA (V1)
	200	CFW900E0242T4DB20Y2B	CFDB5-4-74600	3.8	83,790	30 x 18 x 72	\$33,780	GA (V1)

Notes:

1) "HP" rating based on WEG 4-Pole W22 motors' "average FLA values." Use as a guide only.

2) Dynamic Braking Resistors are non-stock items. Consult WEG for availability.

3) Dimensions are provided for estimating purposes only.

INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM



CFW11M Series – Modular Drive

New generation of WEG variable frequency drives for high power ratings, ranging from 450 HP to 2500 HP with line voltage from 380 V to 690 V.

Standard Features

- CFW11M
- Circuit breaker with through door handle
- Line reactor
- Six-pulse rectifier bridge
- High speed fuses on DC link
- Control power transformer
- Standard enclosure NEMA 12 filtered
- Pre-charge circuit
- START/STOP push buttons
- E-stop
- Graphic keypad
- All circuit boards conformal coated



Optional Features

- 12 and 18 pulse available
- NEMA 3R
- Temperature monitoring for RTD sensors

Applications

- Pumps
- Fans/blowers
- Conveyors
- Compressors
- Agitators and mixers
- Extruders
- Grizzly feeders
- Centrifuges
- Cranes and hoists
- Roll-out tables
- Presses
- Saws



CFW11M Catalog Number Sequence

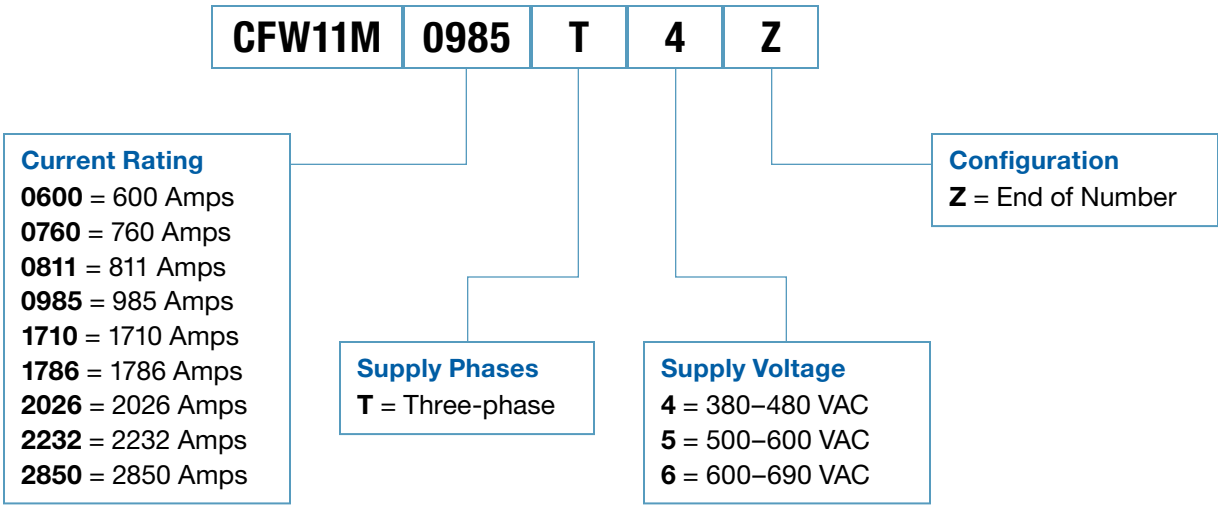


Chart intended as reference only and not to create part numbers.

Variable Frequency Drives



CFW11M Series

Modular Drive in NEMA 12 Enclosure

Motor Voltage	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³	Catalog Number	Rectifier ⁴ Type (Pulses)	Dimensions (in) ⁵ H x W x D	List Price	Multiplier
	ND / VT ¹		HD / CT ¹						
380–480 VAC	Input Power Supply: Three-Phase 380–480 VAC								
	500	600	450	515	CFW11M0600T4Z	6 or 12	104 x 72 x 32	Contact WEG for Pricing	
	600	760	500	600	CFW11M0760T4Z	6 or 12	104 x 72 x 32		
	700	865	600	700	CFW11M0865T4Z	6 or 12	104 x 72 x 32		
	800	985	700	800	CFW11M0985T4Z	6 or 12	104 x 72 x 32		
	1000	1140	800	979	CFW11M1140T4Z	6 or 12	104 x 72 x 32		
	1500	1710	1200	1468	CFW11M1710T4Z	6 or 12	104 x 96 x 34		
	2000	2280	1600	1957	CFW11M2280T4Z	6 or 12	104 x 112 x 34		
	2500	2850	2000	2446	CFW11M2850T4Z	6 or 12	104 x 128 x 34		
500–600 VAC	Input Power Supply: Three-Phase 500–600 VAC								
	500	470	400	380	CFW11M0470T5Z	6 or 12	104 x 72 x 34	Contact WEG for Pricing	
	1000	893	800	722	CFW11M0893T5Z	6 or 12	104 x 72 x 34		
	1500	1340	1250	1083	CFW11M1340T5Z	6 or 12	104 x 96 x 34		
	2000	1786	1600	1444	CFW11M1786T5Z	6 or 12	104 x 112 x 34		
	2500	2232	2000	1805	CFW11M2232T5Z	6 or 12	104 x 128 x 34		
660-690 VAC	Input Power Supply: Three-Phase 660-690 VAC								
	500	427	400	340	CFW11M0427T6Z	6 or 12	104 x 72 x 34	Contact WEG for Pricing	
	1000	811	800	646	CFW11M0811T6Z	6 or 12	104 x 72 x 34		
	1500	1217	1250	969	CFW11M1217T6Z	6 or 12	104 x 96 x 34		
	2000	1622	1600	1292	CFW11M1622T6Z	6 or 12	104 x 112 x 34		
	2500	2028	2000	1615	CFW11M2026T6Z	6 or 12	104 x 128 x 34		

Notes:

1) CT (Constant Torque), 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only. Motor FLA may vary with speed and manufacturer.

3) ALWAYS compare motor FLA to nominal amps of drive.

4) 6-Pulse configuration is Standard; 12-Pulse configuration is Optional.

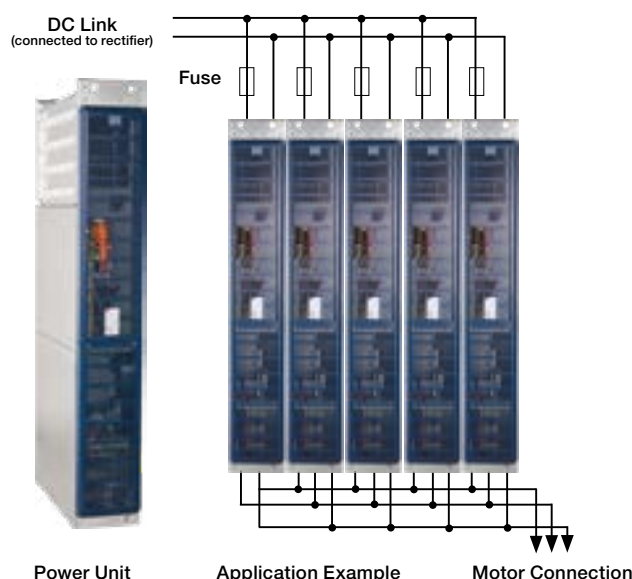
5) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.

For other technical data please refer to WEG product manual. Consult factory for individual module pricing.

Power Unit

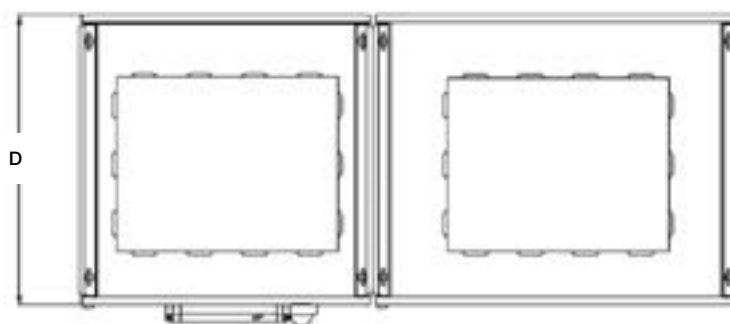
Compact modular drive that can be configured to the applicable motor power ratings.

- Easy servicing
- Configurable up to five power units
- DC supplied by an input rectifier
- Compact book format (width much smaller than the depth)
- Rack mounted

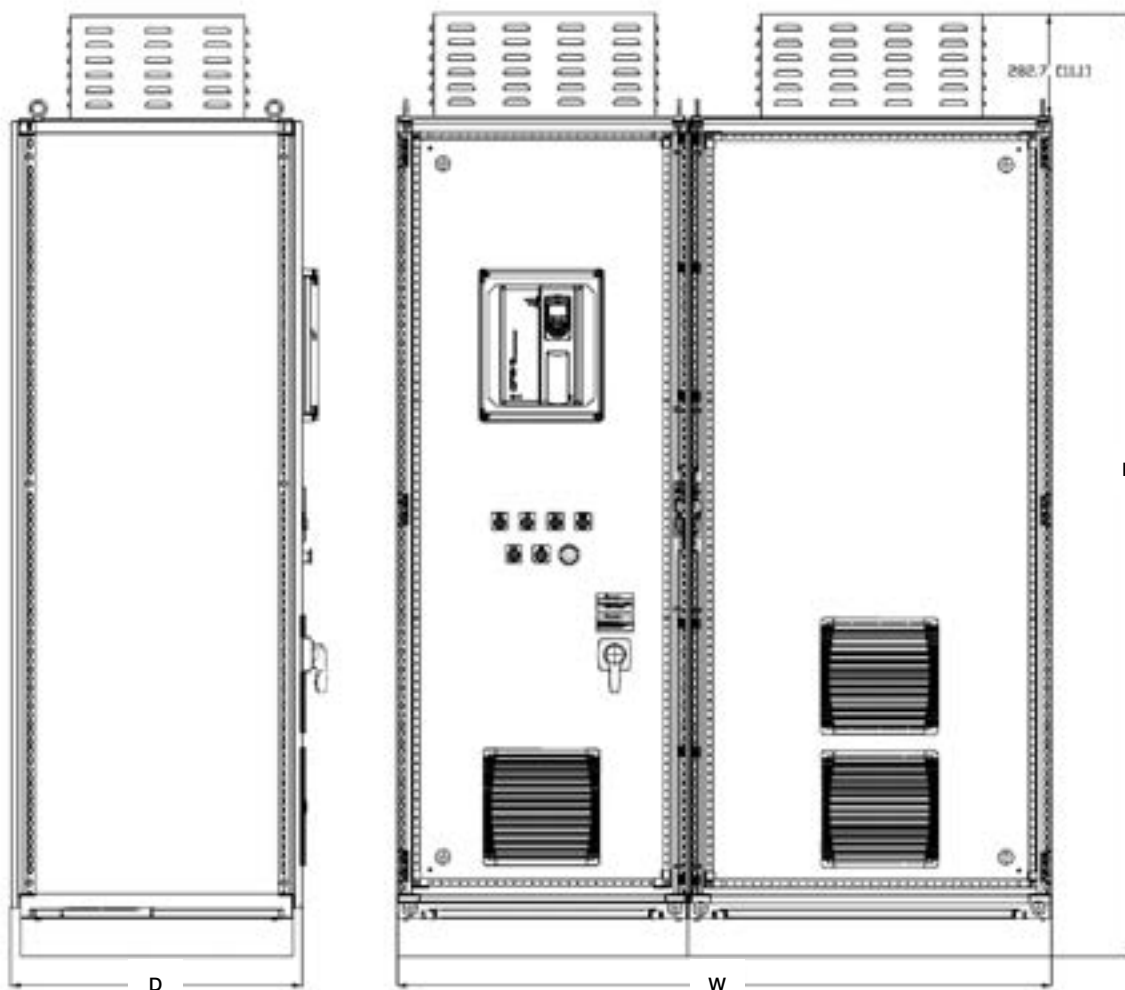


Dimensions

Freestanding Enclosure



Top View



Left Side View

Left Side View

WEG H VAC-R Products

Drive Features

- RFI filter built-in for all frame sizes
- BACnet, Metasys N2 and Modbus RTU embedded using the RS-485 port
- Thermal Management for drive fan control
- SoftPLC Function
- Process feedback in engineering units
- Direct/Reverse PID Control Selection
- Control Set point
- Performance Features
- Overload capacity: nominal 110% for 60 seconds (150% peak)
- Adjustable accel/decel: 0.0–900.0 seconds
- Controlled speed range: 1:20
- Critical frequency avoidance: three selectable, adjustable bands
- Torque-limiting: 30–180%
- Torque boost: full range, automatic
- Fault Auto-Reset with programmable time interval
- Feedback signal loss detection
- Serial communications loss detection
- “Up/Down” floating point control capability (PI)
- Sleep function
- Run-permissive input

Drive & Motor Protection Features

- Current-limited stall prevention
- Heat sink over-temperature, speed fold-back
- Bi-directional start into rotating motor
- Optically-isolated controls
- Output short circuit protection: Phase-phase and phase-neutral
- Output ground fault protection
- Electronic motor overload: UL
- Fault display: last 10 faults

Control Features

Power Saving Flux Optimization: (Energy Saving Algorithm) Stator flux is controlled so that motor losses are reduced increasing motor efficiency

Fire Mode: Forces the drive to override its internal faults and protections, allowing the drive and motor to run during extreme conditions

Dry Pump: Monitors motor torque and prevents the pump from running with no load

Sleep / Wake-Up Mode: Prevents prolonged motor operation at low speeds for a programmable amount of time. Wake-up mode determines when the drive and motor resume normal operation

Bypass function: Allows the VFD to be bypassed and the motor to be run across the line

Short Cycling Protection: Prevents repetitive motor restarting after short periods of time

Broken Belt Protection: Monitors motor torque preventing it from running with no load in case of a broken belt or coupling

Filter Maintenance Alarm: A warning for filter maintenance is displayed on the keypad based on an adjustable time interval (time is programmed in the drive)

PTC function: Using drive I/O, PTC thermal sensors can be monitored to prevent motor overheating

Main PID Controller: Internal PID loops available for drive control



CFW501 Series – Frequency Inverter

The WEG CFW501 series of variable frequency drives for heating, ventilation, air conditioning and refrigeration was designed with the features and functions required for modern HVAC systems. The CFW501 is designed with the same reliability, robustness and energy-efficient control known in our industrial lines. WEG now brings this technology to office buildings, hospitals, airports, hotels, shopping centers or other similar facilities.



Standard Features

- CFW501 Ratings: 1/3–7 1/2 HP at 230 VAC; 1/2–25 HP at 480 VAC
- Conformal Coated Circuit Boards: provides protection against dust, humidity, high temperature and chemicals
- Plenum Rated with NEMA 1 Kit: Meets UL94 Requirements
- IP20 enclosure with NEMA 1 conversion kits available
- Harmonics: Meets IEC 61000-3-12 requirements
 - No line reactor required
 - No restrictions for installation, no minimum line impedance required
- Communications: Native support for BACnet MS/TP, Metasys N2, and Modbus RTU
- Heat sink and internal temperature monitoring provides protection for critical components such as IGBTs and circuit boards
- Fan operation is controlled based on the temperature of power modules
- Reduces energy consumption when drive is not supplying power to the motor



Applications

- Hospitals
- Airports
- Shopping malls
- Sports facilities
- Schools and universities
- Hotels and restaurants
- Condominium and residential
- Municipal and commercial buildings
- Chillers and compressors
- Cooling towers
- Boiler circulation pumps
- Chill water circulation pumps
- Exhaust fans
- Clean room air handling
- Tunnel Ventilation

Variable Frequency Drives



CFW501 Series

CFW501 Catalog Number Sequence

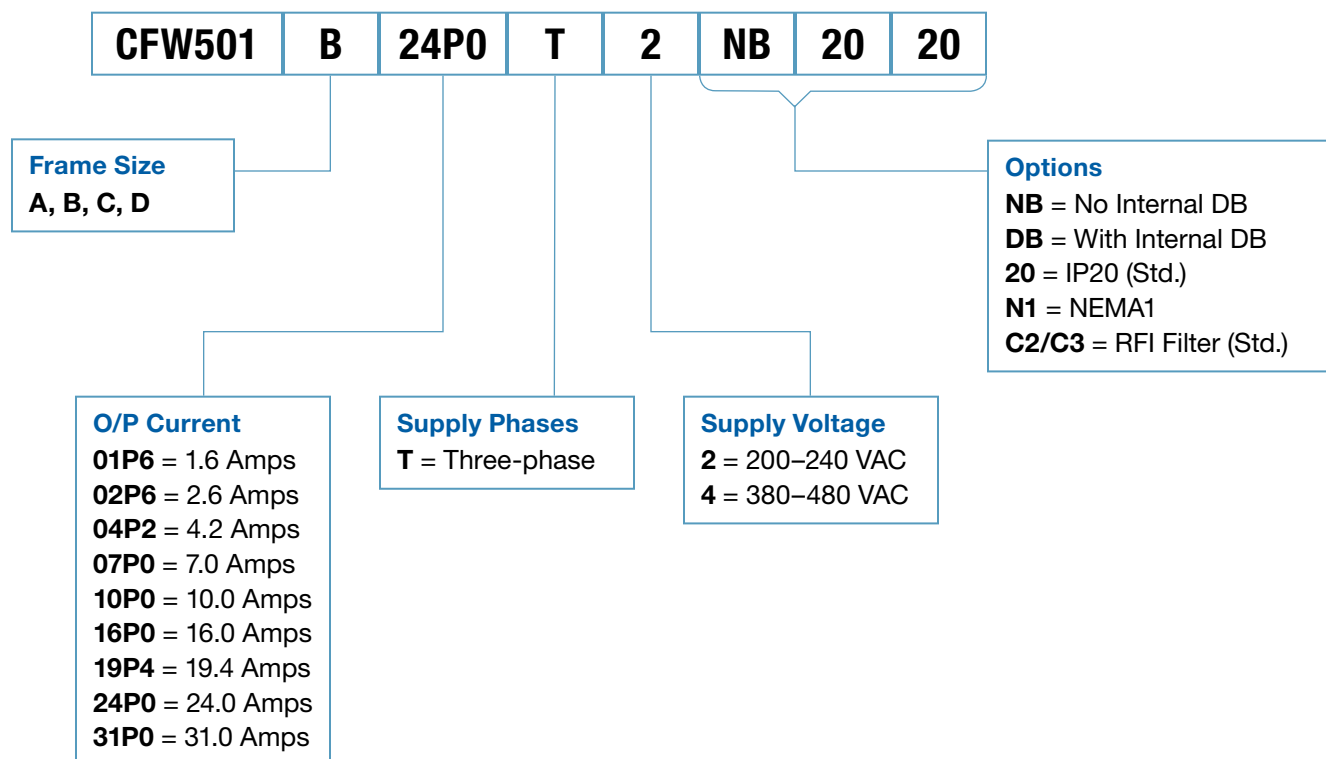


Chart intended as reference only and not to create part numbers.

CFW501

IP20 Enclosure

Motor Voltage	ND / VT ¹		Catalog Number ⁵	Braking Transistor	Frame Size	Dimensions (in) H x W x D ⁴	Approx. Weight (lbs)	List Price	Multiplier
	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–230 VAC without Dynamic Braking Transistor								
	1/3	1.6	CFW501A01P6T2NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$563	V3
	3/4	2.6	CFW501A02P6T2NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$601	V3
	1 1/2	4.3	CFW501A04P3T2NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$652	V3
	2	7.0	CFW501A07P0T2NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$736	V3
	3	9.6	CFW501A09P6T2NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$804	V3
	4	12.2	CFW501A12P2T2NB20C3 ⁶	No	A	7.5 x 3.0 x 5.9	1.8	\$873	V3
	Input Power Supply: Three-Phase 200–240 VAC with Dynamic Braking Transistor								
	5	16.0	CFW501B16P0T2DB20C3	Yes	B	7.9 x 4.0 x 6.3	2.7	\$1,009	V3
	7 1/2	19.4	CFW501B19P4T2DB20C3 ⁶	Yes	B	7.9 x 4.0 x 6.3	2.7	\$1,111	V3
	7 1/2	24.0	CFW501C24P0T2DB20C3	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,552	V3
460 VAC	Input Power Supply: Three-Phase 380–480 VAC without Dynamic Braking Transistor								
	1/2	1.0	CFW501A01P0T4NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$745	V3
	1	1.6	CFW501A01P6T4NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$761	V3
	1 1/2	2.6	CFW501A02P6T4NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$799	V3
	3	4.3	CFW501A04P3T4NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$917	V3
	5	6.1	CFW501A06P1T4NB20C3	No	A	7.5 x 3.0 x 5.9	1.8	\$1,051	V3
	Input Power Supply: Three-Phase 380–480 VAC with Dynamic Braking Transistor								
	1 1/2	2.6	CFW501B02P6T4DB20C3	Yes	B	7.9 x 4.0 x 6.3	2.7	\$835	V3
	3	4.3	CFW501B04P3T4DB20C3	Yes	B	7.9 x 4.0 x 6.3	2.7	\$958	V3
	5	6.5	CFW501B06P5T4DB20C3	Yes	B	7.9 x 4.0 x 6.3	2.7	\$1,092	V3
	7 1/2	10.0	CFW501B10P0T4DB20C3	Yes	B	7.9 x 4.0 x 6.3	2.7	\$1,299	V3
	10	14.0	CFW501C14P0T4DB20C2	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,609	V3
	10	16.0	CFW501C16P0T4DB20C2	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,886	V3
	15	24.0	CFW501D24P0T4DB20C3	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,321	V3
	25	31.0	CFW501D31P0T4DB20C3	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,716	V3

Notes:

1) VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Dimensions are provided for estimating purposes only. For other technical data please refer to WEG product manual.

5) CFW500-CRS485 Card is included as standard with CFW501 Drives. It will provide four (4) DIs, 1 DO, 2 ROs, 2 AIs, 1 AO and 2 RS-485 com. Port as a standard.

6) Not UL listed.

CFW501 Options & Accessories

Type	Catalog Number	Description	Approx. Shpg. Wt. (lbs)	List Price	Multiplier Symbol
Flash Memory Module	CFW500-MMF	CFW500/501 Flash Memory Module	0.2	\$189	V1G
Non-Text Remote Keypad	CFW501-HMIR ¹	Non-Text Remote Keypad with Mounting Frame kit	0.6	\$150	V3
HMI Cable 1M	CFW500-CCHMIR01M	3.3 ft (1 m) Remote Keypad Cable	0.5	\$23	V1G
HMI Cable 2M	CFW500-CCHMIR02M	6.6 ft (2 m) Remote Keypad Cable	0.7	\$31	V1G
HMI Cable 3M	CFW500-CCHMIR03M	9.9 ft (3 m) Remote Keypad Cable	1.0	\$41	V1G
HMI Cable 5M	CFW500-CCHMIR05M	16 ft (5 m) Remote Keypad Cable	1.2	\$51	V1G
HMI Cable 7.5M	CFW500-CCHMIR075M	25 ft (7.5 m) Remote Keypad Cable	1.5	\$61	V1G
HMI Cable 10M	CFW500-CCHMIR010M	33 ft (10 m) Remote Keypad Cable	2.0	\$72	V1G
NEMA 1 Conduit Kit	CFW501-KN1A	NEMA 1 kit: Frame Size A	0.7	\$25	V3
NEMA 1 Conduit Kit	CFW501-KN1B	NEMA 1 kit: Frame Size B	1.0	\$30	V3
NEMA 1 Conduit Kit	CFW501-KN1C	NEMA 1 kit: Frame Size C	1.0	\$39	V3
NEMA 1 Conduit Kit	CFW501-KN1D	NEMA 1 kit: Frame Size D	1.0	\$52	V3

Notes:

1) CFW501-HMIR (non-text Remote Keypad) will require Qty. (1) CFW500-CCHIR0xM cable. ("x" represents the cable length in meters).

Variable Frequency Drives

CFW501 Series

Technical Data

Power Supply	Voltage	Single-phase or three-phase	200–240 VAC (+10%, -15%)
		Three-phase	380–480 VAC (+10%, -15%)
	Frequency	50/60 Hz +/- 2 Hz	
Enclosure	Degree of Protection	IP 20	
	Mounting	Surface mounting with screws or DIN rail mounting	
Control	Control Modes	Volts per Hertz (Scalar)	
		Sensorless Voltage Vector	
	Power Output	Sinusoidal PWM (Space Vector Modulation)	
		IGBT Transistors	
	Switching Frequency	2.5, 5, 10 or 15 kHz	
	Frequency Range	0–300 Hz	
	Overload Capacity	110% for 60 seconds, repeatable every 10 minutes	
Control Inputs	4 programmable isolated digital inputs, NPN or 24 VDC logic (PNP)		
	2 programmable differential analog inputs; programmable for current or voltage Can be set as DI or as PTC input (0–10V, 4–20 mA or 0–20 mA)		
Control Outputs	2 Programmable relay Outputs: Form C (240V / 0.5 A). 1 Programmable Transistor Output (Maximum 150 mA @ 24 VDC). 1 Programmable differential analog Output; Programmable for current or voltage.		
Communication	Serial	2 x RS-485 Ports (Modbus RTU, BACnet and Metasys N2 as a standard)	
Safety	Protections	Motor over current	DC link over voltage
		Motor overload	DC link under voltage
		Output phase-to-phase short circuit	Drive over temperature
		Output phase-to-ground short circuit	External fault
		Programming error	
Ambient	Temperature	32–122°F (50°C), up to 140°F (60°C) with 2% / 1.8°F (1°C) output current derating	
	Humidity	5–95% Non-condensing	
	Altitude	0–3,300 ft (1,000 m), up to 13,200 ft (4,000 m) with 1% / 330 ft (100 m) output current derating	
Regulatory Conformance	EMC Directive 89 / 336 / EEC	Electromagnetic compatibility: Industrial Environment EMC Emission and Immunity with optional filter	
	ENC61800-3		
	LVD 73/23/EEC	Low Voltage Directive	
	UL 508 C	Power Conversion Equipment	
Special Functions	Linear and “S” ramp accel and decel, local/remote control, FWD/REV selection, DC braking, manual and auto torque boost, motor slip compensation, electronic pot, two skip frequencies, maximum and minimum adjustable frequency limits, adjustable output current		
Keypad	4 digit display, two (2) indicator LEDs and 8 keys		
	Readouts for: output frequency (Hz), output current (A), output voltage (V), motor torque (%) in vector mode, DC bus voltage (V), value proportional to frequency (Ex.: RPM), heatsink temperature, fault and status messages		

INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM



Variable Frequency Drives



PUMP GENIUS™

The WEG Pump Genius™ variable frequency drive software is designed to reduce system operation and maintenance costs while increasing pump process accuracy and protection. Pump Genius™ offers simplex or multiplex pump control while providing monitoring and protection for the pump system.

Pump Genius™ can be applied to any pump system that requires constant flow or pressure control.



- Reduce System Component Cost
- Improve System Reliability
- Reduce Maintenance Costs
- Eliminate Costly Control Panels
- Reduce System Energy Requirements
- Reduce Overall Installation Costs



PC Software – Download from www.weg.net

Performance Features

2-75 HP @ 230 VAC and 2-600 HP @ 480 VAC

- Overload capacity:
 - ND: 110% for 60 seconds
 - HD: 150% for 60 seconds
- Adjustable accel/decel: 0.0–900.0 seconds
- Controlled speed range: 1:20
- Critical frequency rejection: 3 selectable, adjustable bands
- Torque-limiting: 30–180%
- Torque boost: full range, automatic
- Power loss ride-thru: 2 seconds
- Fault Auto-Reset with programmable time interval
- Feedback signal loss detection
- Serial communications loss detection
- “Up/Down” floating point control capability (PI)
- Pump Sleep function
- Run-permissive input

Pump Control Features

Simplex or Multiplex Control

- Operator Keypad with intuitive pump language
- Local/Remote Control
- Jockey Pump Control
- Process feedback in engineering units
- Direct/Reverse PID Control Selection
- Control Set point by VFD Keypad, Analog Input, a combination of Digital Inputs, Communication command or based on weekly schedule
- Sleep Boost Mode
- Sleep Mode and Wake-Up Mode
- Pipe Charging
- Deragging function
- No Flow Detection
- Forced Rotation

Drive & Motor Protective Features

Current-Limited Stall Prevention

- Heat sink over-temperature, speed fold-back
- Bi-directional start into rotating motor
- Optically-isolated controls
- Short circuit protection: phase-phase and phase-neutral
- Ground fault protection
- Short circuit withstand rating: 100 kA RMS with Fuses
- Electronic motor overload: UL
- Current limit
- Fault display: last 10 faults
- Over torque and under torque protection

Pump Protective Features

Dry Pump

- Air in system
- Blocked impeller
- Pump over cycling
- No flow protection
- Loss of prime
- Transducer loss
- Over torque
- Anti-cavitation



Variable Frequency Drives



Pump Genius

Pump Genius™ – Simplex (Single Pump Control)

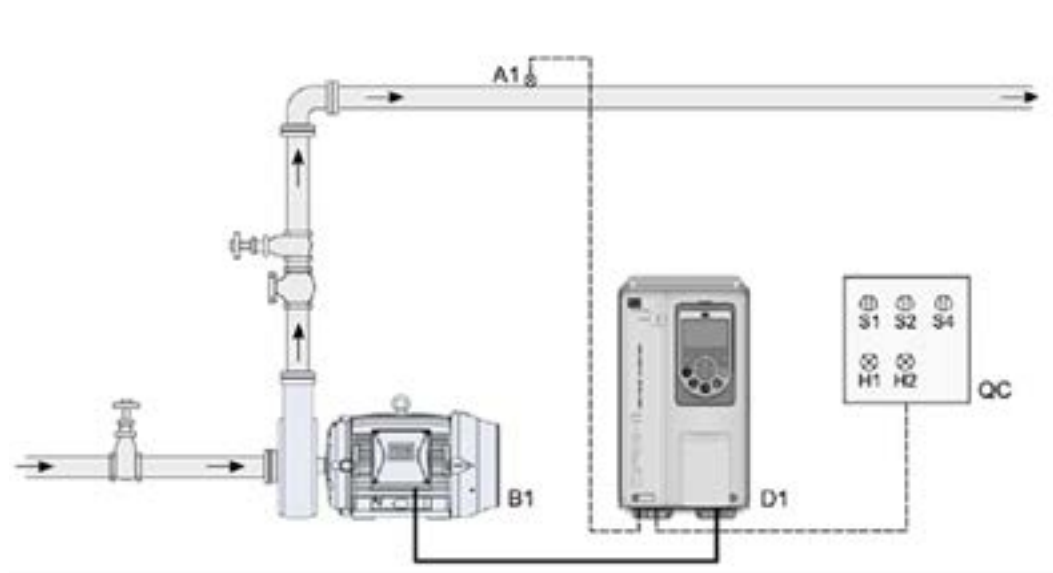
Operation

Pump Genius works with the WEG CFW11 drive to control pump system processes. Monitoring system pressure or flow, it adjusts pump speed to meet pumping requirements.

Pump Genius – Simplex Operation

The Pump Genius™ – Simplex software monitors the system pressure or flow from a feedback device and maintains it at the control set point.

- Motor faults are monitored and alarmed
- Drive faults are monitored and alarmed
- Feedback Signal Lost / Broken Wire detected and alarmed
- Provides control for a single (1) pump operation



Pump Genius™ – Simplex Configuration



Single Drive Pump System

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Single or Three-Phase 200–240 VAC with Dynamic Braking Transistor										
	1 1/2	6.0	1 1/2	5.0	CFW110006B20N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,779	V4
	2	7.0	2	7.0	CFW110007B20N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,851	V4
	Input Power Supply: Single-phase 200–240 VAC with Dynamic Braking Transistor										
	3	10	3	10	CFW110010S20N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,947	V4
	Input Power Supply: Three-Phase 200–240 VAC with Dynamic Braking Transistor										
	2	7.0	1 1/2	5.5	CFW110007T20N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,755	V4
	3	10	2	8.0	CFW110010T20N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,827	V4
	5	13	3	11	CFW110013T20N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,863	V4
	5	16	5	13	CFW110016T20N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,985	V4
	7 1/2	24	7 1/2	20	CFW110024T20N1Z-PGS	Yes	B	13.9 x 7.5 x 9.0	23	\$2,559	V4
	10	28	10	24	CFW110028T20N1Z-PGS	Yes	B	13.9 x 7.5 x 9.0	23	\$2,776	V4
	10	34	10	28	CFW110033T20N1Z-PGS	Yes	B	13.9 x 7.5 x 9.0	23	\$3,325	V4
	15	45	15	36	CFW110045T20N1Z-PGS	Yes	C	17.7 x 8.7 x 11.5	46	\$3,776	V4
	20	54	20	45	CFW110054T20N1Z-PGS	Yes	C	17.7 x 8.7 x 11.5	46	\$4,535	V4
	25	70	20	56	CFW110070T20N1Z-PGS	Yes	C	17.7 x 8.7 x 11.5	46	\$6,735	V4
	30	86	25	70	CFW110086T20N1Z-PGS	Yes	D	19.9 x 11.9 x 12.0	72	\$7,357	V4
	40	105	30	86	CFW110105T20N1Z-PGS	Yes	D	19.9 x 11.9 x 12.0	72	\$9,135	V4
	Input Power Supply: Three-Phase 200–240 VAC without Dynamic Braking Transistor										
	50	142	40	115	CFW110142T20N1Z-PGS	No	E ⁴	26.6 x 13.2 x 14.1	144	\$11,784	V4
	60	180	50	142	CFW110180T20N1Z-PGS	No	E ⁴	26.6 x 13.2 x 14.1	144	\$15,260	V4
	75	211	60	180	CFW110211T20N1Z-PGS	No	E ⁴	26.6 x 13.2 x 14.1	144	\$21,695	V4

Continued on next page

Variable Frequency Drives



Pump Genius

Single Drive Pump System – *continued*

460 VAC	Input Power Supply: Three-Phase 380–480 VAC with Dynamic Braking Transistor										
	2	3.6	2	3.6	CFW110003T40N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,751	V4
	3	5.0	3	5.0	CFW110005T40N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,785	V4
	5	7.0	3	5.5	CFW110007T40N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,847	V4
	7 1/2	10	5	10	CFW110010T40N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,104	V4
	10	13.5	7 1/2	11	CFW110013T40N1Z-PGS	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,203	V4
	10	17	10	13.5	CFW110017T40N1Z-PGS	Yes	B	13.9 x 7.5 x 9.0	23	\$2,665	V4
	15	24	10	19	CFW110024T40N1Z-PGS	Yes	B	13.9 x 7.5 x 9.0	23	\$3,127	V4
	20	31	15	25	CFW110031T40N1Z-PGS	Yes	B	13.9 x 7.5 x 9.0	23	\$4,008	V4
	25	38	20	33	CFW110038T40N1Z-PGS	Yes	C	17.7 x 8.7 x 11.5	46	\$4,435	V4
	30	45	25	38	CFW110045T40N1Z-PGS	Yes	C	17.7 x 8.7 x 11.5	46	\$5,535	V4
	40	58.5	30	47	CFW110058T40N1Z-PGS	Yes	C	17.7 x 8.7 x 11.5	46	\$6,768	V4
	50/60	70.5	40	61	CFW110070T40N1Z-PGS	Yes	D	19.9 x 11.9 x 12.0	72	\$7,635	V4
	60/75	88	50	73	CFW110088T40N1Z-PGS	Yes	D	19.9 x 11.9 x 12.0	72	\$9,035	V4
	Input Power Supply: Three-Phase 380–480 VAC without Dynamic Braking Transistor										
	75	105	75	88	CFW110105T40N1Z-PGS	No	E 4	26.6 x 13.2 x 14.1	144	\$10,785	V4
	100/125	142	75	115	CFW110142T40N1Z-PGS	No	E 4	26.6 x 13.2 x 14.1	144	\$12,635	V4
	150	180	100/125	142	CFW110180T40N1Z-PGS	No	E 4	26.6 x 13.2 x 14.1	144	\$17,635	V4
	175	211	150	180	CFW110211T40N1Z-PGS	No	E 4	26.6 x 13.2 x 14.1	144	\$21,135	V4
	200	242	150	211	CFW110242T4SZ-PGS	No	F 4,5	48.6 x 16.9 x 14.2	309	\$23,135	V4
	250	312	200	242	CFW110312T4SZ-PGS	No	F 4,5	48.6 x 16.9 x 14.2	309	\$29,501	V4
	300	370	250	312	CFW110370T4SZ-PGS	No	F 4,5	48.6 x 16.9 x 14.2	309	\$31,449	V4
	400	477	300	370	CFW110477T4SZ-PGS	No	F 4,5	48.6 x 16.9 x 14.2	309	\$41,162	V4
	450	515	400	477	CFW110515T4SZ-PGS	No	G 4,5	50 x 21.1 x 16.8	474	\$44,105	V4
	500	601	450	515	CFW110601T4SZ-PGS	No	G 4,5	50 x 21.1 x 16.8	474	\$50,223	V4
	600	720	500	560	CFW110720T4SZ-PGS	No	G 4,5	50 x 21.1 x 16.8	474	\$59,465	V4

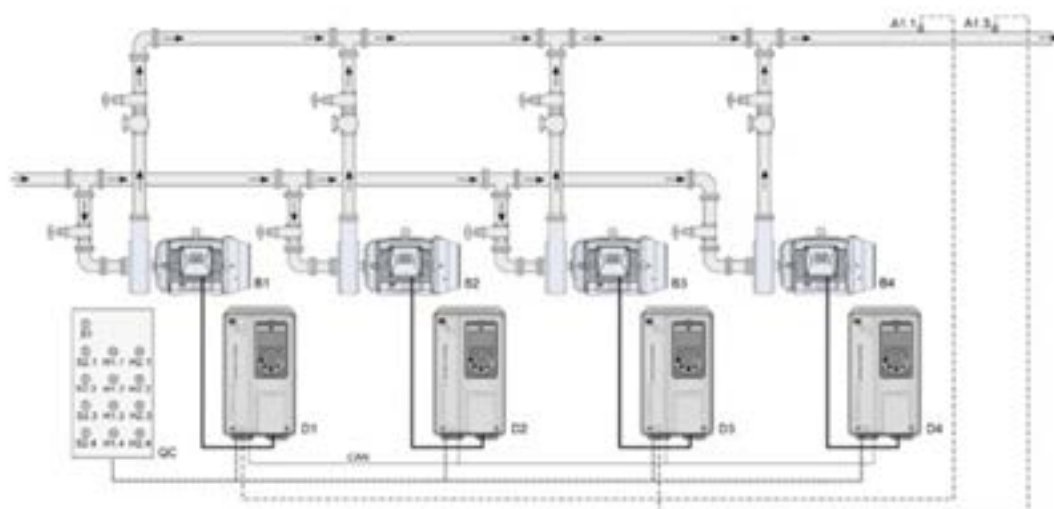
Notes:
1) CT (Constant Torque), 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.
2) "HP" rating based on "average FLA values." Use as a guide only.
3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.
4) Maximum 45°C ambient temperature without derating.
5) IP20 enclosure protection level.
For other technical data please refer to WEG product manual.

Pump Genius™ – Multiplex (Multiple Pump System Control)

Pump Genius – Multiplex Operation

The Pump Genius Multiplex software monitors the system pressure or flow from a feedback device and maintains it at the control set point. The pumps are cycled on and off based on the accumulated run times to ensure even wear, increasing equipment reliability while extending the life span of the system. How it works:

- A minimum of one VFD in the system is programmed as “Master/Slave.” This “Master/Slave” VFD has the capability to control the entire multiplex pump system (up to five VFDs). Each “Master/Slave” VFD needs an analog feedback from the process (pressure or flow) connected to its respective analog input.
- Any VFDs in the system that are not programmed for “Master/Slave” operation will be set up in “Slave” mode and will follow commands from the lead “Master/Slave” VFD. A VFD set up as “Slave” is not capable of controlling the Pump Genius system.
- To establish a redundant pump configuration, at least two VFDs need to be programmed as “Master/Slave”. The lead “Master/Slave” VFD will control the entire system and the following operating sequence will be followed:
 - The Pump and Motor with the least run time will be the first to start.
 - The Pump and Motor with the highest run time will be the first to stop.
 - A fault condition in the lead VFD such as ‘Communication Loss’, ‘Feedback Signal Lost / Broken Wire’, or a ‘Drive Fault’ will cause the pump system to transfer control to another “Master/Slave” VFD and the pump system will restart.
- VFDs ordered using the “Pump Genius™ – Multiplex” (CFW11xxxxxxZ-PGM) part number are provided with an RS-485 communication module and the ‘Multiplex’ version of Pump Genius™ software installed in the VFD.



Pump Genius™ – Multiplex Configuration

Pump Genius

Multi Drive Pump System (includes RS-485 communication card installed)

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Single or Three-Phase 200–240 VAC with Dynamic Braking Transistor										
	1 1/2	6.0	1 1/2	5.0	CFW110006B20N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,019	V4
	2	7.0	2	7.0	CFW110007B20N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,091	V4
	Input Power Supply: Single-phase 200–240 VAC with Dynamic Braking Transistor										
	3	10	3	10	CFW110010S20N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,187	V4
	Input Power Supply: Three-Phase 200–240 VAC with Dynamic Braking Transistor										
	2	7.0	1 1/2	5.5	CFW110007T20N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,995	V4
	3	10	2	8.0	CFW110010T20N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,067	V4
	5	13	3	11	CFW110013T20N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,103	V4
	5	16	5	13	CFW110016T20N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,225	V4
	7 1/2	24	7 1/2	20	CFW110024T20N1Z-PGM	Yes	B	13.9 x 7.5 x 9.0	23	\$2,799	V4
	10	28	10	24	CFW110028T20N1Z-PGM	Yes	B	13.9 x 7.5 x 9.0	23	\$3,016	V4
	10	34	10	28	CFW110033T20N1Z-PGM	Yes	B	13.9 x 7.5 x 9.0	23	\$3,565	V4
	15	45	15	36	CFW110045T20N1Z-PGM	Yes	C	17.7 x 8.7 x 11.5	46	\$4,016	V4
	20	54	20	45	CFW110054T20N1Z-PGM	Yes	C	17.7 x 8.7 x 11.5	46	\$4,775	V4
	25	70	20	56	CFW110070T20N1Z-PGM	Yes	C	17.7 x 8.7 x 11.5	46	\$6,975	V4
	30	86	25	70	CFW110086T20N1Z-PGM	Yes	D	19.9 x 11.9 x 12.0	72	\$7,597	V4
	40	105	30	86	CFW110105T20N1Z-PGM	Yes	D	19.9 x 11.9 x 12.0	72	\$9,375	V4
	Input Power Supply: Three-Phase 200–240 VAC without Dynamic Braking Transistor										
	50	142	40	115	CFW110142T20N1Z-PGM	No	E ⁴	26.6 x 13.2 x 14.1	144	\$12,024	V4
	60	180	50	142	CFW110180T20N1Z-PGM	No	E ⁴	26.6 x 13.2 x 14.1	144	\$15,500	V4
	75	211	60	180	CFW110211T20N1Z-PGM	No	E ⁴	26.6 x 13.2 x 14.1	144	\$21,935	V4

Continued on next page

Multi Drive Pump System (includes RS-485 communication card installed) – continued

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
460 VAC	Input Power Supply: Three-Phase 380–480 VAC with Dynamic Braking Transistor										
	2	3.6	2	3.6	CFW110003T40N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,991	V4
	3	5.0	3	5.0	CFW110005T40N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,025	V4
	5	7.0	3	5.5	CFW110007T40N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,087	V4
	7 1/2	10	5	10	CFW110010T40N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,344	V4
	10	13.5	7 1/2	11	CFW110013T40N1Z-PGM	Yes	A	12.1 x 5.8 x 9.0	13.9	\$2,443	V4
	10	17	10	13.5	CFW110017T40N1Z-PGM	Yes	B	13.9 x 7.5 x 9.0	23	\$2,905	V4
	15	24	10	19	CFW110024T40N1Z-PGM	Yes	B	13.9 x 7.5 x 9.0	23	\$3,367	V4
	20	31	15	25	CFW110031T40N1Z-PGM	Yes	B	13.9 x 7.5 x 9.0	23	\$4,248	V4
	25	38	20	33	CFW110038T40N1Z-PGM	Yes	C	17.7 x 8.7 x 11.5	46	\$4,675	V4
	30	45	25	38	CFW110045T40N1Z-PGM	Yes	C	17.7 x 8.7 x 11.5	46	\$5,775	V4
	40	58.5	30	47	CFW110058T40N1Z-PGM	Yes	C	17.7 x 8.7 x 11.5	46	\$7,008	V4
	50/60	70.5	40	61	CFW110070T40N1Z-PGM	Yes	D	19.9 x 11.9 x 12.0	72	\$7,875	V4
	60/75	88	50	73	CFW110088T40N1Z-PGM	Yes	D	19.9 x 11.9 x 12.0	72	\$9,275	V4
	Input Power Supply: Three-Phase 380–480 VAC without Dynamic Braking Transistor										
	75	105	75	88	CFW110105T40N1Z-PGM	No	E ⁴	26.6 x 13.2 x 14.1	144	\$11,025	V4
	100/125	142	75	115	CFW110142T40N1Z-PGM	No	E ⁴	26.6 x 13.2 x 14.1	144	\$12,875	V4
	150	180	100/125	142	CFW110180T40N1Z-PGM	No	E ⁴	26.6 x 13.2 x 14.1	144	\$17,875	V4
	175	211	150	180	CFW110211T40N1Z-PGM	No	E ⁴	26.6 x 13.2 x 14.1	144	\$21,375	V4
	200	242	150	211	CFW110242T4SZ-PGM	No	F ^{4,5}	48.6 x 16.9 x 14.2	309	\$23,375	V4
	250	312	200	242	CFW110312T4SZ-PGM	No	F ^{4,5}	48.6 x 16.9 x 14.2	309	\$29,741	V4
	300	370	250	312	CFW110370T4SZ-PGM	No	F ^{4,5}	48.6 x 16.9 x 14.2	309	\$31,689	V4
	400	477	300	370	CFW110477T4SZ-PGM	No	F ^{4,5}	48.6 x 16.9 x 14.2	309	\$41,402	V4
	450	515	400	477	CFW110515T4SZ-PGM	No	G ^{4,5}	50 x 21.1 x 16.8	474	\$44,345	V4
	500	601	450	515	CFW110601T4SZ-PGM	No	G ^{4,5}	50 x 21.1 x 16.8	474	\$50,463	V4
	600	720	500	560	CFW110720T4SZ-PGM	No	G ^{4,5}	50 x 21.1 x 16.8	474	\$59,705	V4

Notes:

1) CT (Constant Torque), 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) Maximum 45°C ambient temperature without derating.

5) IP20 enclosure protection level.

For other technical data please refer to WEG product manual.

Variable Frequency Drives

Pump Genius

Pump Genius™ HMI – View Only (for CFW11-PGM Drives)

The Pump Genius HMI (Human Machine Interface) “View Only” will allow a more detailed overview of the CFW11 Pump Genius Multiplex System. It can be added to existing CFW11-PGM (Multiplex) systems or used for new CFW11-PGM (Multiplex) systems. The Pump Genius HMI “View only” for CFW11-PGM will have the following features:

Image / text-based screen representations of CFW11 Pump Genius multiplex system operations and variables.

- Individual pump/variable frequency drive (VFD) status screen with digital I/O (intake and output) and analog Input status.
- Ability to change Control setpoint, PID Parameters, Pump/VFD device name and communication setup. Password protected to allow only authorized users to make changes.
- Ability to reset the CFW11-PGM VFD faults.
- Individual CFW11-PGM drive time stamped Alarm and Fault history screens.
- Trend screens for PID parameters and individual Motor parameters (Motor Torque, current, speed)
- Pump Genius HMI – View Only will offer one RJ45 communication port for the customer’s supervisory system to communicate with HMI using BACnet/IP or Modbus TCP.
- Step-by-step I/O manual on how to add/use this HMI to the existing CFW11-PGM (Multiplex) System and he new CFW11-PGM (Multiplex) systems.

Pump Genius™ HMI – View Only (for CFW11-PGM Drives)

Catalog Number (Material Number)	Description		List Price	Multiplier
PGM-HMI-VO (16997135)	Pump Genius HMI – View Only for CFW11-PGM drives, 7 in, NEMA 4X (for indoor use) Notes: 1. Each CFW11-PGM drives in the system will need Qty-1, "CAN/RS485-01" communication module. 2. The HMI requires 24 VDC Power.		\$2,115	V4
PGM-HMI-VO-ENCL (17087092)	Enclosed Panel for Pump Genius HMI – View Only for CFW11-PGM drives (for indoor use only) with the following items: - 12 in H x 12 in W x 6 in D, NMEA4, wall mount enclosure. - Miniature Circuit Breaker. - 24 VDC Power supply. - Enclosure door mounted 7 in PG View Only HMI. - A set of panel drawings. Notes: 1. Each CFW11-PGM drives in the system will need Qty-1, "CAN/RS485-01" communication module. 2. The Panel requires 1/120 VAC Power.		\$3,935	V4

Pump Genius™ HMI with Integrated PLC

To build on the foundation of the View-Only HMI and create a stand-alone Pump Genius application, WEG has developed a full-package Pump Genius™ HMI WITH INTEGRATED PLC where the logic for Pump Genius (Pump Control – Single or two or more Pumps in parallel) will reside in a PLC associated with the HMI. This HMI will have the following features:

- Compatible with WEG CFW3x0, CFW500, CFW11 and CFW900 1 DRIVES, using Modbus RTU (RS-485 communication).
- Only one Program for Simplex (Single Pump) / Multiplex (two or more, up to 5 Pumps in parallel) application.
- VFD keypad only needed for Modbus address/ baud rate/protocol selection.
- Quick setup – only need to enter motor/system data once.
- Program developed and supported by WEG, which enables customization for special OEMs.
- Easier to take VFDs in/out of service. No Special firmware is needed.
- Easy tuning with the on-screen trends when setting up the PID loop.
- No laptop is required to configure. The wizards are built into the HMI and resemble WEG Simplex/Multiplex Pump Genius Wizards.
- Same functions, alarms, and protections currently available on WEG CFW11/500 PG.
- The HMI will offer one RJ45 communication port for the customer supervisory system to communicate with HMI using BACnet/IP or Modbus TCP.
- Step-by-step I/O manual provides details of each screen.

Catalog Number (Material Number)	Description	List Price	Multiplier
PG-HMI (17449271)	 Pump Genius HMI with integrated PLC and complete Pump Genius Program, 7 in, NEMA 4X (for indoor use) Notes: 1. The process feedback shall be connected to the analog i/p of the VFD(s). 2. The HMI requires 24 VDC Power. 3. The HMI communicates with VFDs using RS-485 (Modbus RTU). If the WEG VFDs being used with HMI don't have a built-in (Modbus RTU) communication port, an optional communication module for the WEG VFD shall be purchased separately.	Contact WEG	V4
PG-HMI-ENCL (17449222)	 Enclosed Panel (for indoor use only) with Pump Genius HMI with integrated PLC and with the following items: - 20 in H x 20 in W x 12 in D, NMEA4, wall mount enclosure. - Miniature Circuit Breaker. - 24 VDC Power supply. - Enclosure door-mounted 7 in PG HMI with PLC capability and complete Pump Genius program. - A set of panel drawings. Notes: 1. The process feedback shall be connected to the analog i/p of the VFD(s). 2. The Panel requires 1/120 VAC Power. 3. The HMI communicates with VFDs using RS-485 (Modbus RTU). If the WEG VFDs being used with HMI don't have a built-in (Modbus RTU) communication port, an optional communication module for the WEG VFD shall be purchased separately.	Contact WEG	V4
PG-HMI-IO-ENCL (17449057)	 Enclosed Panel (for indoor use only) with Pump Genius HMI with integrated PLC, PLC I/O Module, following items: - 20 in H x 20 in W x 12 in D, NMEA4, wall mount enclosure. - Miniature Circuit Breaker. - 24 VDC Power supply. - HMI/PLC I/O module (24DI, 16DO & 4 AI) to connect process feedback. - Enclosure door-mounted 7 in PG HMI with PLC capability and complete Pump Genius program. - A set of panel drawings. Notes: 1. The process feedback shall be connected to the analog i/p of the HMI/PLC I/O Module. 2. The Panel requires 1/120 VAC Power. 3. The HMI communicates with VFDs using RS-485 (Modbus RTU). If the WEG VFDs being used with HMI don't have a built-in (Modbus RTU) communication port, an optional communication module for the WEG VFD shall be purchased separately.	Contact WEG	V4

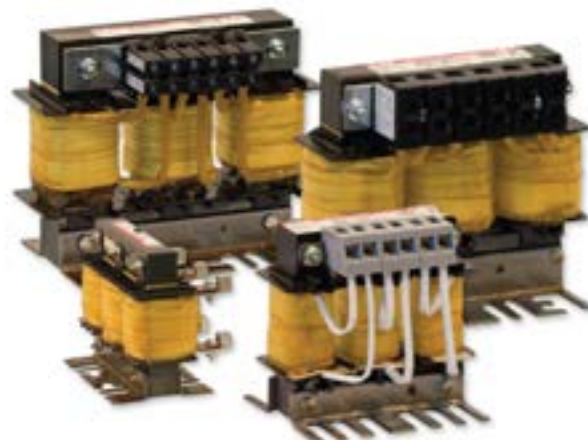
Notes:

1) Currently, the HMI is not compatible with WEG's newly launched CFW900 drive. The HMI program is in development and will be available by 3Q of 2024.

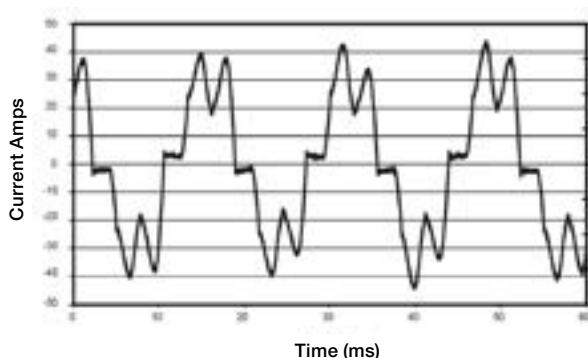
Line & Load Reactors

Line reactors are electrical components that help protect 6-pulse rectifiers and power conversion devices such as variable frequency drives (VFD). A line reactor can help reduce harmonics and protect the drive from harmful voltage spikes when used with a VFD. The line reactors are recommended on the input of each VFD in multiple drive applications.

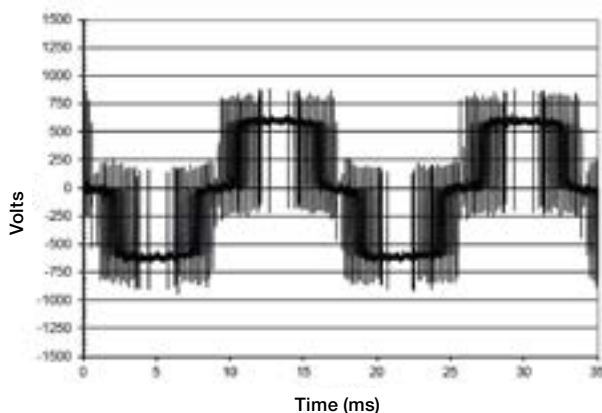
Load reactors: The reactors are constructed with durability in mind and can be used on both the input and output of a VFD. When used on the output of a drive, the reactors reduce voltage distortion at the motor terminals, extending the service life and minimizing the insulation stress of any motor.



Reduced Input Harmonic Current Distortion –
with Line Reactor / VFD with DC Bus Choke



Reduced Output Voltage Spikes at Motor
Terminals – with Load Reactor



Technical Specifications

- Impedance Protection: Low “Z” (3%)
- System Voltage: 208/240 VAC, 480 VAC
- Ambient Temperature: 122°F (50°C) – Open; 104°F (40°C) – Enclosed
- Maximum Altitude: 6,000 ft (2,000 m); derating required above 6,000 ft (2,000 m)
- Fundamental Frequency: 50/60 Hz
- Short Term Overload Rating: Tolerate 200% rated I for a maximum of 3 minutes.
- Agency Approvals: cULus Listed, CE Marked
- Inductance Characteristics: Minimum 95% L at 110% Load; Minimum 80% L at 150% Load
- Input and Output: Available for either the line or load side of a VFD
- Enclosure Options: Open and UL Type 3R

3% Line / Load Reactor – Open Type¹

Motor Voltage	NEC Motor HP	NEC Motor Current	Max Continuous Amps ²	Part Number	Dimensions (in) H x W x D ³	Watts Loss	Weight (lbs) ³	List Price	Multiplier New (old)
3/208-240 VAC	0.25	1.4	3.4	WKDRMA21L1	3.63 x 4.45 x 1.78	4.6	1.4	\$118	GA (V1)
	0.5	2.4	5	WKDRMA22L1	3.63 x 4.45 x 1.78	6.8	3.7	\$120	GA (V1)
	0.75	3.5	4.2	WKDRMA23L1	3.63 x 4.45 x 1.79	12.9	3	\$151	GA (V1)
	1	4.6	5.5	WKDRMA24L1	3.63 x 4.45 x 1.80	19.2	3.2	\$154	GA (V1)
	1.5	6.6	8	WKDRMA25L1	3.63 x 4.45 x 1.81	23.3	3.2	\$156	GA (V1)
	2	7.5	10	WKDRMA27L1	3.63 x 4.45 x 1.82	27	4	\$159	GA (V1)
	3	10.6	12	WKDRAA28L2	4.44 x 4.25 x 3.53	42	3	\$187	GA (V1)
	5	16.7	19	WKDRB22L	5.00 x 6.00 x 4.00	38	8	\$227	GA (V1)
	7.5	24.2	25	WKDRB23L	5.00 x 6.00 x 4.00	48	8	\$336	GA (V1)
	10	30.8	34	WKDRD25L	5.75 x 7.20 x 4.25	64	12	\$308	GA (V1)
	15	46.2	48	WKDRD24L	5.75 x 7.20 x 4.25	85	12	\$553	GA (V1)
	20	59.4	62	WKDRD26L	5.75 x 7.20 x 4.25	94	12	\$556	GA (V1)
	25	74.8	80	WKDRC22L	5.75 x 7.20 x 5.00	114	15	\$598	GA (V1)
	30	88	100	WKDRF24L	7.00 x 9.00 x 6.00	135	30	\$726	GA (V1)
	40	114	118	WKDRF25L	7.00 x 9.00 x 6.00	149	30	\$773	GA (V1)
	50	143	152	WKDRF26L	7.00 x 9.00 x 6.00	154	30	\$816	GA (V1)
	60	169	180	WKDRH22L	8.31 x 10.50 x 6.00	209	45	\$974	GA (V1)
	75	211	211	WKDRI23L	8.50 x 11.00 x 7.00	294	50	\$1,069	GA (V1)
	100	273	280	WKDRI24L	8.50 x 11.00 x 7.00	276	50	\$1,542	GA (V1)
	125	343	377	WKDRG22L	10.15 x 11.50 x 8.50	370	65	\$1,976	GA (V1)
3/480 VAC	150	396	420	WKDRJ23L	10.00 x 11.31 x 9.50	401	70	\$1,999	GA (V1)
	200	528	534	WKDRJ24L	10.00 x 11.31 x 9.50	442	70	\$2,444	GA (V1)
	0.25	0.7	1.4	WKDRMA1L1	3.63 x 4.45 x 1.78	5	1.3	\$109	GA (V1)
	0.33	0.8	1.7	WKDRMA2L1	3.63 x 4.45 x 1.78	6.2	1.3	\$119	GA (V1)
	0.5	1.1	1.6	WKDRMA3L1	3.63 x 4.45 x 1.78	9.7	1.3	\$120	GA (V1)
	0.75	1.6	2.3	WKDRMA4L1	3.63 x 4.45 x 1.78	12.1	1.3	\$121	GA (V1)
	1	2.1	2.3	WKDRMA5L1	3.63 x 4.45 x 1.78	25.2	1.2	\$122	GA (V1)
	1.5	3	3.4	WKDRMA6L1	3.63 x 4.45 x 1.78	26.4	1.4	\$147	GA (V1)
	2	3.4	4.2	WKDRMA7L1	3.63 x 4.45 x 1.78	23.5	1.4	\$150	GA (V1)
	3	4.8	5	WKDRMA8L1	3.63 x 4.45 x 1.78	30.6	1.4	\$178	GA (V1)
	4	6.2	7.6	WKDRAA6L2	4.44 x 4.25 x 2.64	39	3	\$180	GA (V1)
	5	7.6	8.2	WKDRAA3L2	4.44 x 4.25 x 2.64	45	3	\$182	GA (V1)
	7.5	11	11	WKDRAA4L2	4.44 x 4.25 x 2.64	64	3.2	\$205	GA (V1)
	10	14	14	WKDRAA5L2	4.44 x 4.25 x 2.64	77.7	3.3	\$213	GA (V1)
	15	21	30	WKDRB2L	5.00 x 6.00 x 4.00	65	8	\$300	GA (V1)
	20	27	30	WKDRB1L	5.00 x 6.00 x 4.00	79	8	\$319	GA (V1)
	25	34	40	WKDRD1L	5.75 x 7.20 x 4.25	96	10	\$428	GA (V1)
	30	40	45	WKDRD2L	5.75 x 7.20 x 4.25	105	10	\$510	GA (V1)
	40	52	55	WKDRC1L	5.75 x 7.20 x 5.00	114	15	\$631	GA (V1)
	50	65	65	WKDRF2L	7.00 x 9.00 x 6.00	114	25	\$775	GA (V1)
	60	77	77	WKDRF4L	7.00 x 9.00 x 6.00	169	25	\$787	GA (V1)
	75	96	110	WKDRF3L	7.00 x 9.00 x 6.00	193	30	\$930	GA (V1)
	100	124	150	WKDRH3L	8.31 x 10.50 x 6.00	225	40	\$973	GA (V1)
	125	156	165	WKDRH2L	8.31 x 10.50 x 6.00	254	40	\$1,147	GA (V1)
	150	180	185	WKDRH1L	8.31 x 10.50 x 6.00	299	40	\$1,261	GA (V1)
	200	240	240	WKDRG3L	10.15 x 11.38 x 8.25	280	65	\$1,626	GA (V1)
	250	302	340	WKDRG1L	10.15 x 11.50 x 8.50	337	65	\$2,017	GA (V1)
	300	361	370	WKDRG2L	10.15 x 11.50 x 8.50	381	65	\$2,270	GA (V1)
	350	414	500	WKDRJ2L	10.00 x 11.31 x 9.50	465	70	\$2,618	GA (V1)
	400	477	520	WKDRJ1L	10.00 x 11.31 x 9.50	470	70	\$2,680	GA (V1)
	450	515	610	WKDRL1L	12.75 x 14.75 x 9.25	509	110	\$3,374	GA (V1)
	500	590	610	WKDRL2L	12.75 x 14.75 x 9.25	518	110	\$4,188	GA (V1)
	600	720	750	WKDRL3L	12.75 x 15.50 x 11.50	748	155	\$4,301	GA (V1)
	700	840	850	WKDRS1L ⁴	12.75 x 15.65 x 14.25	872	158	\$7,036	GA (V1)
	800	960	965	WKDRX2L ⁴	18.31 x 18.00 x 13.00	997	160	\$8,040	GA (V1)
	900	1080	1100	WKDRX3L ⁴	18.50 x 18.00 x 14.50	1121	275	\$9,047	GA (V1)
	1000	1200	1216	WKDRX1L ⁴	18.50 x 18.00 x 14.50	1246	290	\$10,050	GA (V1)

Notes:

1) The Reactors are non-stock items. Please consult WEG for availability. Maximum ambient temperature 122°F (50°C). Can be used with any WEG Drive family.

2) The maximum continuous current can be used to select the reactor. It shall be equal to or higher than the VFD input current (if used as line reactor) or Motor rated current (if used as load reactor).

3) Dimensions and weights are provided for estimating purposes only.

4) These reactors can only be used as load reactors.

3% Line / Load Reactor – Enclosed, UL Type 3R¹

Motor Voltage	NEC Motor HP	NEC Motor Current	Max Continuous Amps ²	Part Number	Dimensions (in) H X W X D ³	Watts Loss	Weight (lbs) ³	List Price	Multiplier New (old)
3/208-24 VAC	0.25	1.4	3.4	WKDRMA21L1E3R1	11.5 x 10.3 x 12	4.6	18	\$653	GA (V1)
	0.5	2.4	5	WKDRMA22L1E3R1	11.5 x 10.3 x 12	6.8	18	\$656	GA (V1)
	0.75	3.5	4.2	WKDRMA23L1E3R1	11.5 x 10.3 x 12	12.9	18	\$687	GA (V1)
	1	4.6	5.5	WKDRMA24L1E3R1	11.5 x 10.3 x 12	19.2	18	\$690	GA (V1)
	1.5	6.6	8	WKDRMA25L1E3R1	11.5 x 10.3 x 12	23.3	18	\$692	GA (V1)
	2	7.5	10	WKDRMA27L1E3R1	11.5 x 10.3 x 12	27	18	\$694	GA (V1)
	3	10.6	12	WKDRAA28L2E3R1	11.5 x 10.3 x 12	42	18	\$722	GA (V1)
	5	16.7	19	WKDRB22LE3R	11.5 x 10.3 x 12	38	25	\$777	GA (V1)
	7.5	24.2	25	WKDRB23LE3R	11.5 x 10.3 x 12	48	25	\$809	GA (V1)
	10	30.8	34	WKDRD25LE3R	11.5 x 10.3 x 12	64	25	\$859	GA (V1)
	15	46.2	48	WKDRD24LE3R	11.5 x 10.3 x 12	85	25	\$1,111	GA (V1)
	20	59.4	62	WKDRD26LE3R	11.5 x 10.3 x 12	94	25	\$1,114	GA (V1)
	25	74.8	80	WKDRC22LE3R	11.5 x 10.3 x 12	114	25	\$1,245	GA (V1)
	30	88	100	WKDRF24LE3R	19.1 x 15.8 x 19.5	135	68	\$1,484	GA (V1)
	40	114	118	WKDRF25LE3R	19.1 x 15.8 x 19.5	149	68	\$1,761	GA (V1)
	50	143	152	WKDRF26LE3R	19.1 x 15.8 x 19.5	154	68	\$1,819	GA (V1)
	60	169	180	WKDRH22LE3R	22.2 x 20.6 x 28.5	209	116	\$2,630	GA (V1)
	75	211	211	WKDRI23LE3R	22.2 x 20.6 x 28.5	294	116	\$2,742	GA (V1)
	100	273	280	WKDRI24LE3R	22.2 x 20.6 x 28.5	276	116	\$3,215	GA (V1)
	125	343	377	WKDRG22LE3R	22.2 x 20.6 x 28.5	370	140	\$3,683	GA (V1)
3/480 VAC	150	396	420	WKDRJ23LE3R	22.2 x 20.6 x 28.5	401	140	\$3,893	GA (V1)
	200	528	534	WKDRJ24LE3R	22.2 x 20.6 x 28.5	442	140	\$4,345	GA (V1)
	0.25	0.7	1.4	WKDRMA1L1E3R1	11.5 x 10.3 x 12	5	18	\$643	GA (V1)
	0.33	0.8	1.7	WKDRMA2L1E3R1	11.5 x 10.3 x 12	6.2	18	\$653	GA (V1)
	0.5	1.1	1.6	WKDRMA3L1E3R1	11.5 x 10.3 x 12	9.7	18	\$656	GA (V1)
	0.75	1.6	2.3	WKDRMA4L1E3R1	11.5 x 10.3 x 12	12.1	18	\$657	GA (V1)
	1	2.1	2.3	WKDRMA5L1E3R1	11.5 x 10.3 x 12	25.2	18	\$658	GA (V1)
	1.5	3	3.4	WKDRMA6L1E3R1	11.5 x 10.3 x 12	26.4	18	\$683	GA (V1)
	2	3.4	4.2	WKDRMA7L1E3R1	11.5 x 10.3 x 12	23.5	18	\$685	GA (V1)
	3	4.8	5	WKDRMA8L1E3R1	11.5 x 10.3 x 12	30.6	18	\$713	GA (V1)
	4	6.2	7.6	WKDRAA6L2E3R1	11.5 x 10.3 x 12	39	18	\$716	GA (V1)
	5	7.6	8.2	WKDRAA3L2E3R1	11.5 x 10.3 x 12	45	18	\$718	GA (V1)
	7.5	11	11	WKDRAA4L2E3R1	11.5 x 10.3 x 12	64	18	\$741	GA (V1)
	10	14	14	WKDRAA5L2E3R1	11.5 x 10.3 x 12	77.7	18	\$749	GA (V1)
	15	21	30	WKDRB2LE3R	11.5 x 10.3 x 12	65	23	\$858	GA (V1)
	20	27	30	WKDRB1LE3R	11.5 x 10.3 x 12	79	24	\$878	GA (V1)
	25	34	40	WKDRD1LE3R	11.5 x 10.3 x 12	96	25	\$994	GA (V1)
	30	40	45	WKDRD2LE3R	11.5 x 10.3 x 12	105	28	\$1,070	GA (V1)
	40	52	55	WKDRC1LE3R	11.5 x 10.3 x 12	114	30	\$1,195	GA (V1)
	50	65	65	WKDRF2LE3R	19.1 x 15.8 x 19.5	114	63	\$1,641	GA (V1)
	60	77	77	WKDRF4LE3R	19.1 x 15.8 x 19.5	169	65	\$1,657	GA (V1)
	75	96	110	WKDRF3LE3R	19.1 x 15.8 x 19.5	193	68	\$1,930	GA (V1)
	100	124	150	WKDRH3LE3R	19.1 x 15.8 x 19.5	225	78	\$1,974	GA (V1)
	125	156	165	WKDRH2LE3R	19.1 x 15.8 x 19.5	254	78	\$2,155	GA (V1)
	150	180	185	WKDRH1LE3R	22.1 x 20.8 x 28.5	299	110	\$2,924	GA (V1)
	200	240	240	WKDRG3LE3R	22.1 x 20.8 x 28.5	280	135	\$3,439	GA (V1)
	250	302	340	WKDRG1LE3R	22.1 x 20.8 x 28.5	337	135	\$3,807	GA (V1)
	300	361	370	WKDRG2LE3R	22.1 x 20.8 x 28.5	381	135	\$4,064	GA (V1)
	350	414	500	WKDRJ2LE3R	22.1 x 20.8 x 28.5	465	135	\$4,524	GA (V1)
	400	477	520	WKDRJ1LE3R	22.1 x 20.8 x 28.5	470	136	\$4,590	GA (V1)
	450	515	610	WKDRL1LE3R	22.1 x 20.8 x 28.5	509	180	\$5,362	GA (V1)
	500	590	610	WKDRL2LE3R	22.1 x 20.8 x 28.5	518	180	\$6,214	GA (V1)
	600	720	750	WKDRL3LE3R	36 x 29 x 37	748	275	\$10,050	GA (V1)
	700	840	850	WKDRS1LE3R ⁴	36 x 29 x 37	872	355	\$12,914	GA (V1)
	800	960	965	WKDRX2LE3R ⁴	36 x 29 x 37	997	620	\$14,045	GA (V1)
	900	1080	1100	WKDRX3LE3R ⁴	Consult WEG	1121	Consult WEG	\$15,455	GA (V1)
	1000	1200	1216	WKDRX1LE3R ⁴		1246		\$16,610	GA (V1)

Notes:

1) The Reactors are non-stock items. Please consult WEG for availability. Maximum ambient temperature 122°F (50°C). Can be used with any WEG Drive family.

2) The maximum continuous current can be used to select the reactor. It shall be equal to or higher than the VFD input current (if used as line reactor) or Motor rated current (if used as load reactor).

3) Dimensions and weights are provided for estimating purposes only.

4) These reactors can only be used as load reactors.

INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM



SSW05 Series – Reduced Voltage Soft Starter

The WEG SSW05 Soft Starter is a super compact, fully digital soft starter with a state-of-the-art DSP controller. Its digital construction provides optimum operation, diagnostics capability, and full motor protection. Simplicity in set-up and operation is assured since all parameters and set-up selections are made via dip switches and potentiometers. Status LEDs alert the user of the SSW05 Series' operational status. Simplicity, ease of set-up, and the small panel assure quick and easy installation and operation.

Standard Features

- 208–480 V, 50/60 Hz input power supply
- Duty cycle: 300% rated current during 10 seconds, four starts per hour
- Built-in bypass contactor
- One digital input for START/STOP (90–250 VAC)
- One digital input for FAULT RESET (90–250 VAC)
- One relay output for RUN indication (1 A/250 V)
- One relay output for FULL VOLTAGE indication (1 A/250 V)
- RS-232 serial port
- Adjustable acceleration and deceleration ramps (1–20 seconds)
- For high inertia loads, see SSW07 product line
- Adjustable pedestal 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 direct mount
- Ambient: 32°F (0°C) to 131°F (55°C), 3,300 ft (1,000 m) altitude, 90% non-condensing humidity
- SuperDrive compatible
- Remote keypad (optional)



Applications

- Pumps
- Fans
- Blowers
- Compressors

SSW05 Catalog Number Sequence

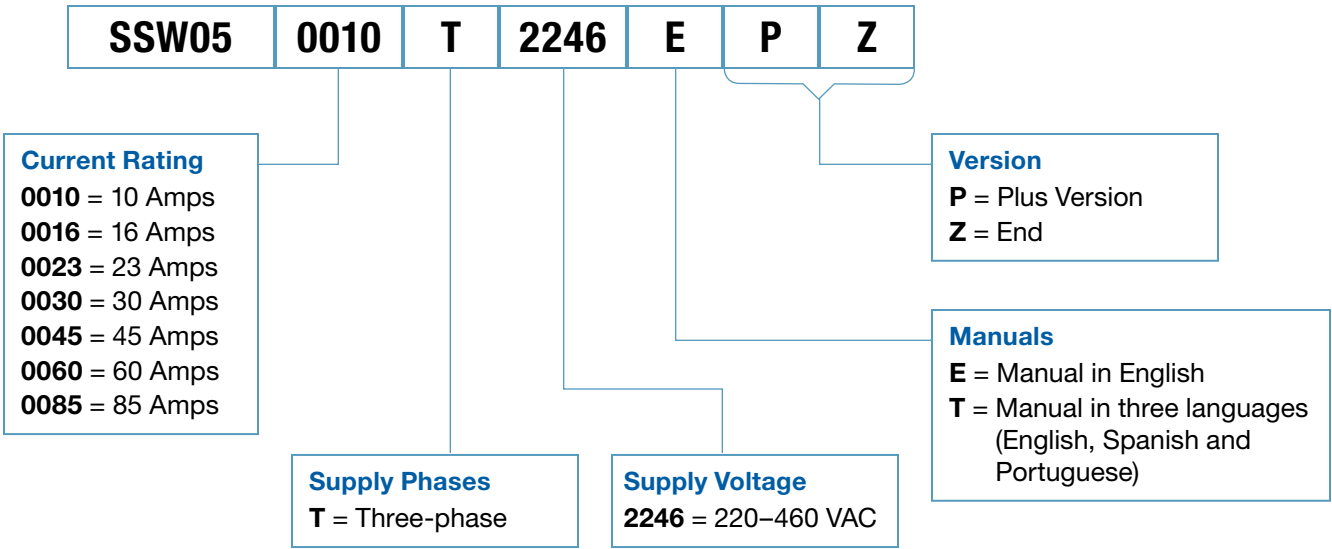


Chart intended as reference only and not to create part numbers.



SSW05 Series

Protected Chassis Enclosure

Motor Voltage	Motor HP ¹	Starter Amps ²	Current Catalog (old catalog number)	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
230 VAC	Input Power Supply: Three-Phase 230 VAC							
	3	10	SSW050010T2246TPZ (SSW050010T2246EPZ)	1	5.1 x 2.3 x 5.7	3	\$531	E15 (E1)
	5	16	SSW050016T2246TPZ (SSW050016T2246EPZ)	1	5.1 x 2.3 x 5.7	3	\$603	E15 (E1)
	7.5	23	SSW050023T2246TPZ (SSW050023T2246EPZ)	1	5.1 x 2.3 x 5.7	3	\$694	E15 (E1)
	10	30	SSW050030T2246TPZ (SSW050030T2246EPZ)	1	5.1 x 2.3 x 5.7	3	\$754	E15 (E1)
	15	45	SSW050045T2246TPZ (SSW050045T2246EPZ)	2	7.3 x 3.1 x 6.8	6	\$943	E15 (E1)
	25	60	SSW050060T2246TPZ (SSW050060T2246EPZ)	2	7.3 x 3.1 x 6.8	6	\$1,135	E15 (E1)
	30	85	SSW050085T2246TPZ (SSW050085T2246EPZ)	2	7.3 x 3.1 x 6.8	6	\$1,382	E15 (E1)
460 VAC	Input Power Supply: Three-Phase 460 VAC							
	5	10	SSW050010T2246TPZ (SSW050010T2246EPZ)	1	5.1 x 2.3 x 5.7	3	\$531	E15 (E1)
	10	16	SSW050016T2246TPZ (SSW050016T2246EPZ)	1	5.1 x 2.3 x 5.7	3	\$603	E15 (E1)
	15	23	SSW050023T2246TPZ (SSW050023T2246EPZ)	1	5.1 x 2.3 x 5.7	3	\$694	E15 (E1)
	20	30	SSW050030T2246TPZ (SSW050030T2246EPZ)	1	5.1 x 2.3 x 5.7	3	\$754	E15 (E1)
	30	45	SSW050045T2246TPZ (SSW050045T2246EPZ)	2	7.3 x 3.1 x 6.8	6	\$943	E15 (E1)
	40	60	SSW050060T2246TPZ (SSW050060T2246EPZ)	2	7.3 x 3.1 x 6.8	6	\$1,135	E15 (E1)
	60 / 75	85	SSW050085T2246TPZ (SSW050085T2246EPZ)	2	7.3 x 3.1 x 6.8	6	\$1,382	E15 (E1)

Notes:
1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.
2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of the starter.

Options & Accessories

Type	Catalog Number	Description	Approx. Weight (lbs)	List Price	Multiplier New (old)
Remote Keypad	SSW05-HMI-RS	Remote Keypad with LED Display	1.1	\$120	E15 (E1)
Remote Cable	CAB-RS-1	3.3 ft (1 m) Remote Keypad Cable	0.5	\$23	E17 (V1)
	CAB-RS-2	6.6 ft (2 m) Remote Keypad Cable	0.7	\$31	E17 (V1)
	SSW05-07-08-CRS-3M	9.9 ft (3 m) Remote Keypad Cable	1.0	\$41	E17 (V1)
	SSW05-07-08-CRS-5M	16 ft (5 m) Remote Keypad Cable	1.2	\$51	E17 (V1)
	CAB-RS-7.5	25 ft (7.5 m) Remote Keypad Cable	1.5	\$62	E17 (V1)
	CAB-RS-10	33 ft (10 m) Remote Keypad Cable	2.0	\$72	E17 (V1)

Technical Data

Settings & Indications



SSW05 Technical Data

Power Supply	Main Voltage	208–480 VAC (+10%, -15%)
	Control Voltage	90–250 VAC
	Frequency	50/60 Hz (+/- 5 Hz)
Enclosure	IP00 Protected Chassis	
Duty Cycle	300% rated current during 10 seconds, four (4) starts per hour	
Control Inputs	Digital	One (1) input for Start/Stop (90–250 VAC)
		One (1) input for Fault Reset (90–250 VAC)
Control Outputs	Digital	One (1) relay output for Run indication (1 A / 250 V)
		One (1) relay output for Full Voltage indication (1 A / 250 V)
Communication	Serial Interface	RS-232C
Safety	Protection	Motor overload ¹
		Locked rotor ¹
		Over current ¹
		Phase sequence ¹
		Phase loss ¹
		SCR overload
Control Features	Pedestal Voltage	30–80% of line voltage
	Accel Ramp	1–20 seconds
	Decel Ramp	Off to 20 seconds
	Motor Current	30–100% of SSW-05 rating
	Fault Reset	Manual or Automatic
Ambient	Temperature	32–131°F (0–55°C)
	Humidity	0–90% Non-condensing
	Altitude	0–3,300 ft (1,000 m) Standard Operation at Rated Current Up to 13,200 ft (4,000 m) with current derating of 1% per 328 ft (100 m) above 3,300 ft (1,000 m)
Conformities	Low Voltage	UL 508 – Industrial Control Equipment IEC 60947-4-2
		EMC Directive 89 / 336 / EEC – Industrial Environment, Class A

Notes:

1) Can be disabled.

SSW07 Series – Reduced Voltage Soft Starter

Soft Starters are static starting devices, designed for the acceleration, deceleration and protection of the three-phase, electric induction motors through the control of the voltage applied to the motor. The SSW07, with DSP control (Digital Signal Processor), was designed to provide great performance on motor starts and stops with an excellent cost-benefit relation. Easy to set up, it simplifies start-up activities and daily operations.

The SSW07 is compact, optimizing space in electric panels. The SSW07 incorporates all electric motor protections and adapts to customer needs through its easy-to-install optional accessories. Optionally, a keypad, a communication interface or a motor PTC input can be added to the product.

Standard Features

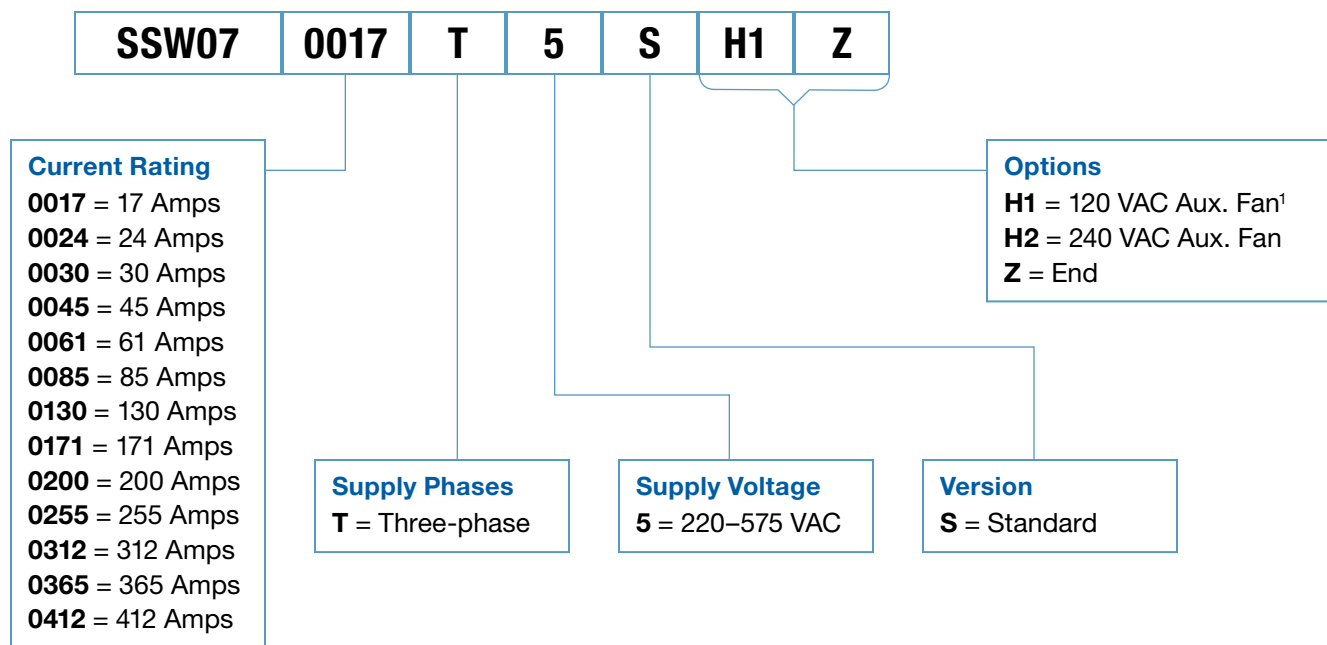
- Universal voltage (220–575 VAC)
- Built-in run rated (AC1) bypass contactor
- Significant reduction of mechanical stresses through the coupling and transmission devices (gearboxes, pulleys, gears, conveyors, etc.) during the start
- Increases motor and machine mechanical equipment lifetime due to the elimination of mechanical shock
- Easy operation, setup, maintenance and installation
- Simple set-point programming through trim pots
- Operates in environments up to 55°C without current reduction
- Integral, electronic motor protection
- Built-in electronic thermal relay
- Avoids “Water Hammer” in pumps
- Limitation of voltage drop during start
- Switched type power supply with EMC filter for the control electronics (110–240 VAC)
- SuperDrive G2 compatible
- Conformal coated circuit boards



Applications

- Chemical and petrochemical
- Plastic and rubber
- Pulp and paper
- Sugar and alcohol
- Beverages
- Cement and mining
- Food and beverage
- Textile
- Metallurgy
- Ceramics
- Glass
- Refrigeration
- Wood
- Sanitation
- Load transportation
- Pumps and fans

SSW07 Catalog Number Sequence



¹) Auxiliary cooling fan for SSW07 Frame 4 only requires 120 VAC single-phase power.
 Chart intended as reference only and not to create part numbers.

SSW07 Series

Protected Chassis Enclosure

Motor Voltage	Standard Duty (300%, 30s, 10 starts/hr @ 55°C)		Heavy Duty ⁴ (450%, 30s, 4 starts/hr @ 55°C)		Catalog Number (old catalog number)	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP ¹	Starter Amps ²	Motor HP ¹	Starter Amps ²						
230 VAC	Input Power Supply: Three-Phase 230 VAC									
	5	17	5	14	SSW070017T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,158	E17 (E1)
	7.5	24	7.5	20	SSW070024T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,241	E17 (E1)
	10	30	10	25	SSW070030T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,281	E17 (E1)
	15	45	10	31	SSW070045T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,461	E17 (E1)
	25	61	15	43	SSW070061T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,646	E17 (E1)
	30	85	20/25	60	SSW070085T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,992	E17 (E1)
	50	130	30/40	94	SSW070130T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$2,501	E17 (E1)
	60	171	50	125	SSW070171T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$3,177	E17 (E1)
	75	200	60	150	SSW070200T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$3,766	E17 (E1)
	100	255	75	185	SSW070255T5SH1Z (SSW070255T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$4,598	E17 (E1)
	125	312	75	224	SSW070312T5SH1Z (SSW070312T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$4,992	E17 (E1)
	150	365	100	263	SSW070365T5SH1Z (SSW070365T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$5,187	E17 (E1)
	150	412	125	298	SSW070412T5SH1Z (SSW070412T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$6,088	E17 (E1)
460 VAC	Input Power Supply: Three-Phase 460 VAC									
	10	17	10	14	SSW070017T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,158	E17 (E1)
	15	24	15	20	SSW070024T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,241	E17 (E1)
	20	30	20	25	SSW070030T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,281	E17 (E1)
	30	45	25	31	SSW070045T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,461	E17 (E1)
	40/50	61	30	43	SSW070061T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,646	E17 (E1)
	75	85	40/50	60	SSW070085T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,992	E17 (E1)
	100	130	60/75	94	SSW070130T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$2,501	E17 (E1)
	125	171	100	125	SSW070171T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$3,177	E17 (E1)
	150	200	125	150	SSW070200T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$3,766	E17 (E1)
	200	255	150	185	SSW070255T5SH1Z (SSW070255T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$4,598	E17 (E1)
	250	312	175	224	SSW070312T5SH1Z (SSW070312T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$4,992	E17 (E1)
	300	365	200	263	SSW070365T5SH1Z (SSW070365T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$5,187	E17 (E1)
	350	412	250	298	SSW070412T5SH1Z (SSW070412T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$6,088	E17 (E1)

Notes:

1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of starter.

3) Must be used with ventilation kit.

4) Crushers, loaded conveyors, shredders, wood chippers, centrifuges, high-inertia centrifugal fans, ball mills, hammer mills, etc., are application examples where a heavy-duty rated soft starter should be used.



Protected Chassis Enclosure

Motor Voltage	Standard Duty (300%, 30s, 10 starts/hr @ 55°C)		Heavy Duty ⁴ (450%, 30s, 4 starts/hr @ 55°C)		Catalog Number (old catalog number)	Frame Size	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Motor HP ¹	Starter Amps ²	Motor HP ¹	Starter Amps ²						
575 VAC	Input Power Supply: Three-Phase 230 VAC									
	15	17	10	14	SSW070017T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,158	E17 (E1)
	25	24	20	20	SSW070024T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,241	E17 (E1)
	30	30	25	25	SSW070030T5SZ	1	6.4 x 2.3 x 5.7	2.9	\$1,281	E17 (E1)
	40	45	30	31	SSW070045T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,461	E17 (E1)
	60	61	40	43	SSW070061T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,646	E17 (E1)
	75	85	50/60	60	SSW070085T5SZ ³	2	8.2 x 5.6 x 8.0	7.3	\$1,992	E17 (E1)
	125	130	75/100	94	SSW070130T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$2,501	E17 (E1)
	150	171	125	125	SSW070171T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$3,177	E17 (E1)
	200	200	150	150	SSW070200T5SZ ³	3	10.9 x 8.6 x 8.7	16.8	\$3,766	E17 (E1)
	250	255	200	185	SSW070255T5SH1Z (SSW070255T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$4,598	E17 (E1)
	300	312	250	224	SSW070312T5SH1Z (SSW070312T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$4,992	E17 (E1)
	400	365	250	263	SSW070365T5SH1Z (SSW070365T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$5,187	E17 (E1)
	450	412	300	298	SSW070412T5SH1Z (SSW070412T5SZ)	4	13.0 x 9.0 x 9.6	28.2	\$6,088	E17 (E1)

Notes:
1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.
2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of starter.
3) Must be used with ventilation kit.
4) Crushers, loaded conveyors, shredders, wood chippers, centrifuges, high-inertia centrifugal fans, ball mills, hammer mills, etc., are application examples where a heavy-duty rated soft starter should be used.

Soft Starters



SSW07 Series

Options & Accessories

Type	Catalog Number	Description	Approx. Weight (lbs)	List Price	Multiplier New (old)
Keypad	SSW07-08-HMI-LOC	Local Keypad: Mounts on SSW07 Soft Starter	1.1	\$174	E17 (E1)
	SSW07-HMI-REM	Remote Keypad Kit: Includes HMI and Interface Module	3.1	\$340	E17 (E1)
	SSW07-HMI-REM-485	Remote Keypad Kit: Includes HMI RS485 Comm. Card	3.8	\$427	E17 (E1)
Remote Cable	CAB-RS-1	3.3 ft (1 m) Remote Keypad Cable	0.5	\$23	E17 (V1)
	CAB-RS-2	6.6 ft (2 m) Remote Keypad Cable	0.7	\$31	E17 (V1)
	SSW05-07-08-CRS-3M	9.9 ft (3 m) Remote Keypad Cable	1.0	\$41	E17 (V1)
	SSW05-07-08-CRS-5M	16 ft (5 m) Remote Keypad Cable	1.2	\$51	E17 (V1)
	CAB-RS-7.5	25 ft (7.5 m) Remote Keypad Cable	1.5	\$62	E17 (V1)
	CAB-RS-10	33 ft (10 m) Remote Keypad Cable	2.0	\$72	E17 (V1)
Communication	SSW07-08-KRS-232	RS-232 Communication Kit	1.6	\$121	E17 (E1)
	SSW07-08-KRS-485	RS-485 Communication Kit	1.6	\$201	E17 (E1)
	CAB-COMM-3	Cable for Communication RS232 (DB9-DB9): 9.9 ft (3 m)	1.1	\$75	E17 (E1)
	CAB-COMM-10	Cable for Communication RS232 (DB9-DB9): 33 ft (10 m)	2.0	\$164	E17 (E1)
	KFB-DN-SSW07	DeviceNet Communication Kit plus Remote HMI Connection	2.3	\$353	E17 (E1)
Kits	SSW0708900-KVT-2B ¹	Ventilation Kit M2 (Frame Size 2, 45–85 A)	1.4	\$65	E17 (E1)
	SSW0708900-KVT-3C ¹	Ventilation Kit M3 (Frame Size 3, 130–200 A)	1.4	\$94	E17 (E1)
	SSW07-08-KPTC-MTR	PTC Kit for motor	0.8	\$123	E17 (E1)
	SSW0708900-IP20-3C	IP20 Kit for M3 (Frame Size 3, 130–200 A)	1.1	\$62	E17 (E1)
	SSW0708900-IP20-4D	IP20 Kit for M4 (Frame Size 4, 255–412 A)	1.1	\$130	E17 (E1)
	KSDG2-SSW07	SuperDrive G2 Kit (Includes KRS-232-SSW07, CAB-COMM-3, CD Software)	1.9	\$225	E17 (E1)

Notes:

1) M2 and M3 Ventilation Kit Cooling Fans require 120 VAC single-phase power.

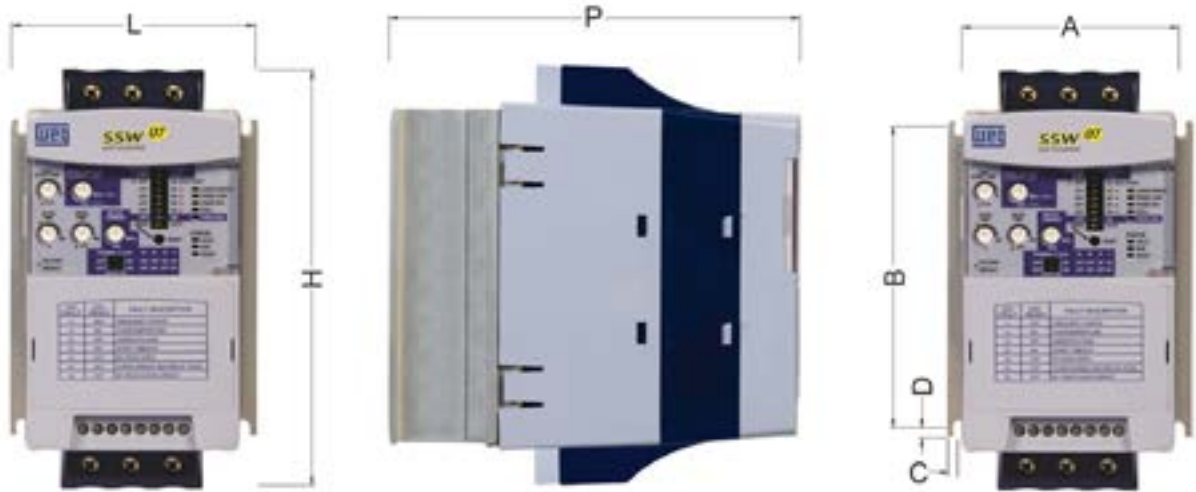


SSW07-HMI-REM HMI-Remote-SSW07; Remote Keypad

Dimensions

Frame Size IP20	Height 'H' in (mm)	Width 'L' in (mm)	Depth 'P' in (mm)	'A' in (mm)	'B' in (mm)	'C' in (mm)	'D' in (mm)	Mounting Screw in (metric)	Weight lbs (kg)
1	6.4 (162)	3.8 (95)	6.2 (157)	3.4 (85)	4.8 (120)	0.20 (5)	0.16 (4.0)	5/32 (M4)	2.9 (1.3)
2	8.3 (208)	5.6 (141)	8.0 (202)	5.2 (132)	5.9 (148)	0.25 (6)	0.13 (3.4)	5/32 (M4)	7.3 (3.3)
3 ¹	10.9 (276)	8.6 (218)	8.7 (220)	8.2 (208)	8.3 (210)	0.30 (7.5)	0.20 (5.0)	3/16 (M5)	16.8 (7.6)
4 ¹	13.1 (331)	9.0 (227)	9.6 (242)	9.6 (242)	11.0 (280)	0.60 (15)	0.35 (9.0)	5/16 (M8)	25.4 (11.5)

Notes:
1) Frames 3 and 4 are IP00 protection rating. See page 96 for IP20 kit.



SSW07 Series

Technical Data

Power Supply	Power	220–575 VAC	
	Control	110–240 VAC (-15% to +10%), or 91–264 VAC, Models from 17–200 A 110–130 VAC (-15% to +10%), or 91–143 VAC, Models from 255 A and above	
	Frequency	50–60 Hz (+/- 10%), or 45–66 Hz	
Enclosure	Injected plastic	IP20 in models from 17–85 A	
		IP00 in models from 130–200 A (IP20 as option)	
Control	Control Method	Voltage variation over the load (three-phase induction motor)	
	CPU	DSP (Digital Signal Processor) type microcontroller	
	Types of Control	Voltage ramp Current limit adjustable 150–450%	
Ambient	Temperature	32–132° F (0–55°C)	
	Humidity	5–90% Non-condensing	
	Altitude	0–3,300 ft (1,000 m): standard operation at rated current. Up to 13,300 ft (4,000 m): with 10% / 1,000 m output current DE rating.	
Starting Cycle (1)	Normal	300% (3 x Inom.) during 30 seconds, 10 starts per hour (every 6 minutes)	
Inputs	Digital	3 isolated programmable inputs (120 VAC)	
Outputs	Relay	2 relays with NO contacts, 240 VAC, 1 A, programmable functions	
Safety	Standard Protection	Overcurrent;	Locked Rotor
		Overcurrent before bypass	Excess starting time
		Phase loss;	Frequency outside tolerance
		Inverted phase sequence;	Bypass contact open
		Overtemperature in power heatsink;	Undervoltage in control supply
		Motor Overload (class 5 to 30)	
		Undercurrent	Programming error
		Current imbalance	Serial communication error
		Subcurrent before bypass	MMI communication error
		External defects	Overtemperature in motor PTC
Functions / Resources	Standard	Voltage ramp (Initial voltage: 30% to 90%)	
		Current limitation (150% to 450% of SSW-07 rated current)	
		Starting time (1–40 seconds)	
		Kick Start (Off: 0.2–2 seconds)	
		Deceleration ramp (0–40 seconds)	
		Motor and SSW-07 current relation (50% to 100%)	
		Faults auto-reset	
		Thermal memory auto-reset	
		Factory standard reset	
		Soft-starter built-in bypass	
Ambient	Temperature	0–131°F (0–55°C): standard operation at rated current	
	Humidity	20–90% Non-condensing	
	Altitude	0–3,300 ft (1,000 m): standard operation at rated current Up to 13,300 ft (4,000 m): with 1% output current Derating for every 100 m above 1,000 m.	

Notes:

1) For the 45–200 A units using the ventilation kit.

Technical Data

Programming Accessory (MMI or Serial communication)	Command	On, Off / Reset and Parameterization (function Programming)
	Additional Functions / Resources	Starting time up to 240 seconds
		Deceleration time up to 240 seconds
		Program enabling password
		Selection for Local / Remote operation
		COPY Function (SSW-07 >>> MMI and MMI >>> SSW-07)
		Programmable rated voltage
	Supervision (Reading)	Motor Current (% Soft Starter In)
		Motor Current (% Motor In)
		Motor current (A)
		Current indication in each phase R-S-T
		Supply network frequency
		Apparent power supplied to load (kVA)
		Soft-Starter status
		Digital input and output status
		Back up of four last errors
		Soft-Starter Software Version
		Heatsink temperature
		Motor thermal protection status
	Options	Plug-in type local MMI
		MMI remote Kit
		1,2,3,5,7.5 and 10 m for remote MMI interconnection
		RS-232 communication kit
		SSW-07 interconnection cables>>> PC Serial (RS-232) 3 and 10 m
		RS-485 communication kit
		Motor PTC kit
		Ventilation kit for size 2 (45–85 A)
		Ventilation kit for size 3 (130–200 A)
		IP20 kit for size 3 (130–200 A)
Finishing	Color	Lid: Gray Ultra Mat Cabinet: Blue Ultra Mat
Certifications	Safety	UL 508 Standard: Industrial Control Equipment
	Low voltage	EN60947-4-2 LVD 2006/95/EC Standard: Low voltage Directive
	EMC	EMC 89/336/EEC Directive: Industrial Environment
	UL (USA) / cUL (Canada)	Underwriters Laboratories (UL) and Canadian UL certification (cUL)
	CE (Europe)	EPCOS (Electronic Performance Complementary Operating Systems) Compliance Tested
	C-Tick (Australia)	Australian Communications and Media Authority Compliance Mark
	GOST (Russia)	GOST Certification Bodies (Russia, Belarus, Kazakhstan)

SSW900 Series – Reduced Voltage Soft Starter

The Next Generation Advanced RVSS with Bluetooth Capability

Combining convenience and innovation, the SSW900 is the right choice for a complete motor protection and START/STOP control. Developed for industrial use, the new line of soft-starters allows easy and simple access to the configuration settings and application data. Using a well-structured menu interface, the SSW900 line provides an unprecedented experience of interactivity with the user, allowing adjustments and configurations with on-line parameter help right on the Keypad. In addition, event logs with date and time and set up assistant are available. All models of SSW900 soft starter have built in AC1 bypass, which contributes to extending the life of the soft starter, optimizing space, and reducing heat dissipation inside electric panels.

Standard Features

- Universal Power Supply: 10–1400 A at 220–575 VAC (+10% / -15%).
- 1/90–250 VAC auxiliary control voltage
- Built in AC1 bypass contactors for all models
- Conformal coated circuit board
- Detachable text/graphic keypad with USB port and with built-in Bluetooth. Bluetooth allows easy programming and monitoring of SSW900 using cell phone app WEG Programming Suite (WPS).
- Real time clock with event log and copy function
- Oriented start-up and on-line help
- Voltage ramp, voltage ramp plus current limit, current limit, pump control, torque control, direct on line (DOL) start modes
- Two independent slots to connect plug-in modules
- Five isolated programmable digital inputs
- One motor thermistor input
- Three programmable relay outputs (2A / 240V)
- One programmable analog output (0–10V, 0/4–20 mA)
- Built-in SoftPLC (requires PC with WEG Programming Suite software).
- Diagnostic features: overvoltage and undervoltage, voltage imbalance between phases, phase sequence, motor overload and underload, overcurrent and undercurrent, current imbalance, short circuit, SCRs under and over temperature, time between starts, etc.
- Display readings: three main display screens, each display screen can be configured to display nine variables like motor current, input and output voltage, output power, power factor, motor torque, etc.
- Ambient: 32°F (0°C) to 131°F (55°C) / 104°F (40°C), frame dependent
- Optional communication: RS-485 (Modbus RTU), CANopen, DeviceNet, Profibus DP, Ethernet/IP, Modbus TCP/IP, ProfiNet IO



Applications

- Pumps
- Fans/blowers
- Mixers/grinders
- Compressors
- Conveyors
- Centrifuges
- Crushers
- Ball and Hammer Mills

SSW900 Catalog Number Sequence

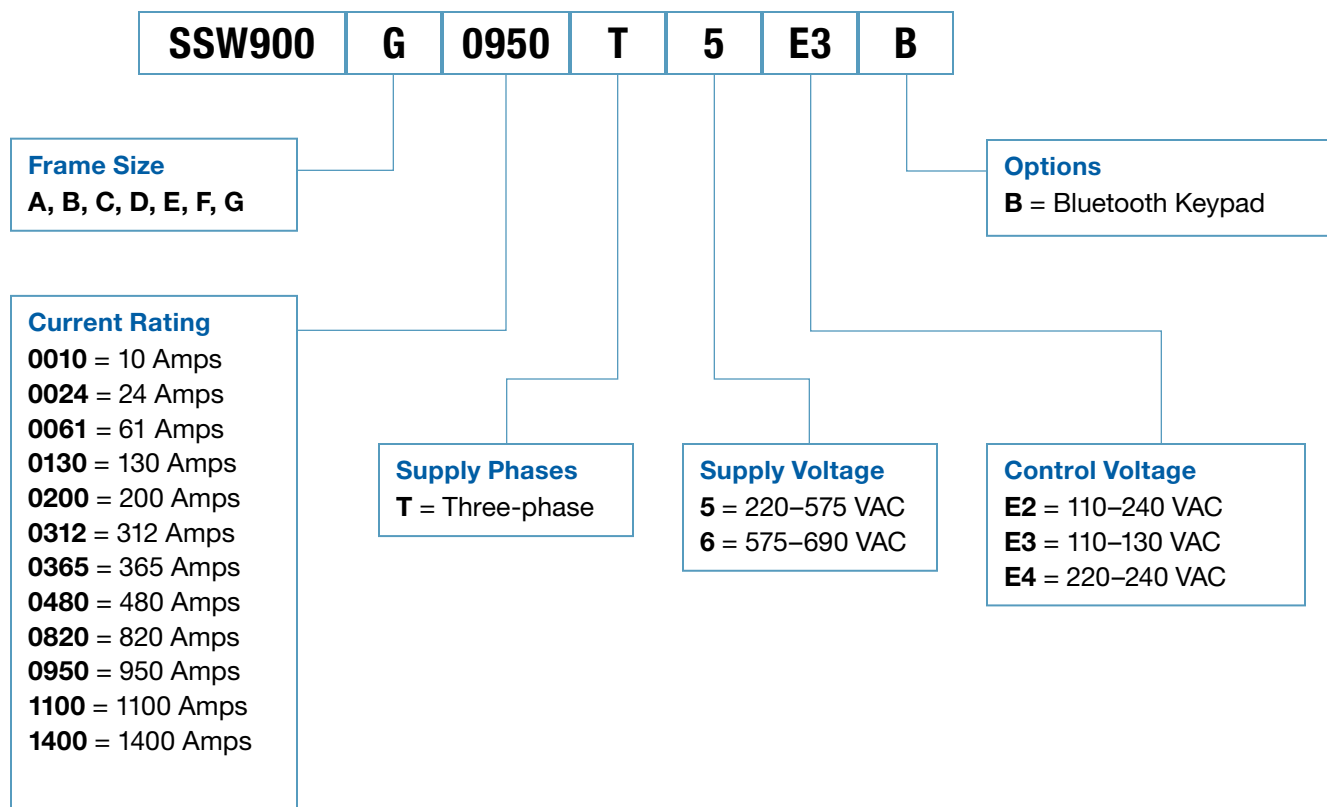


Chart intended as reference only and not to create part numbers.

SSW900 Series

Protected Chassis Enclosure

Motor Voltage	Motor HP ¹	Starter Amps ²	Motor HP ¹	Starter Amps ²	Catalog Number	Frame Size ³	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Standard Duty		Heavy Duty ⁴							
Three-Phase / 230 VAC	300%, 30s, 10 starts/hr @ 55°C		450%, 30s, 4 starts/hr @ 55°C		Input Power Supply: Three-Phase 200–240 VAC					
	3	10	3	10	SSW900A0010T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,386	E19 (E1)
	5	17	5	14	SSW900A0017T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,429	E19 (E1)
	7.5	24	7.5	20	SSW900A0024T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,572	E19 (E1)
	10	30	10	25	SSW900A0030T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,703	E19 (E1)
	15	45	10	31	SSW900B0045T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$1,976	E19 (E1)
	25	61	15	43	SSW900B0061T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$2,181	E19 (E1)
	30	85	20/25	60	SSW900B0085T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$2,771	E19 (E1)
	40	105	30	75	SSW900B0105T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$3,160	E19 (E1)
	50	130	40	94	SSW900C0130T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$3,547	E19 (E1)
	60	171	50	125	SSW900C0171T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$4,270	E19 (E1)
	75	200	60	150	SSW900C0200T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$5,354	E19 (E1)
	100	255	75	185	SSW900D0255T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$7,188	E19 (E1)
	125	312	75	224	SSW900D0312T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$7,896	E19 (E1)
	150	365	100	263	SSW900D0365T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$8,721	E19 (E1)
	150	412	125	298	SSW900D0412T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$9,465	E19 (E1)
	300%, 30s, 5 starts/hr @ 40°C		450%, 30s, 4 starts/hr @ 40°C		Input Power Supply: Three-Phase 230 VAC					
	200	480	150	354	SSW900E0480T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$11,730	E19 (E1)
	250	604	150	409	SSW900E0604T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$13,082	E19 (E1)
	250	670	175	454	SSW900E0670T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$14,878	E19 (E1)
	350	820	200	553	SSW900F0820T5E3B	F	29.9 x 18.3 x 12.4	166.2	\$17,573	E19 (E1)
	400	950	250	643	SSW900F0950T5E3B	F	29.9 x 18.3 x 12.4	166.2	\$26,592	E19 (E1)
	450	1100	300	745	SSW900G1100T5E3B	G	36.0 x 21.2 x 12.4	236.3	\$33,351	E19 (E1)
	550	1400	400	953	SSW900G1400T5E3B	G	36.0 x 21.2 x 12.4	236.3	\$42,863	E19 (E1)

Notes:

1) HP rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of starter.

3) Must be used with ventilation kit.

4) Crushers, loaded conveyors, shredders, wood chippers, centrifuges, high-inertia centrifugal fans, ball mills, hammer mills, etc., are application examples where a heavy-duty rated soft starter should be used.

Protected Chassis Enclosure

Motor Voltage	Motor HP ¹	Starter Amps ²	Motor HP ¹	Starter Amps ²	Catalog Number	Frame Size ³	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Standard Duty		Heavy Duty ⁴							
Three-Phase / 460 VAC	300%, 30s, 10 starts/hr @ 55°C		450%, 30s, 4 starts/hr @ 55°C		Input Power Supply: Three-Phase 460 VAC					
	5	10	5	10	SSW900A0010T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,386	E19 (E1)
	10	17	10	14	SSW900A0017T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,429	E19 (E1)
	15	24	15	20	SSW900A0024T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,572	E19 (E1)
	20	30	20	25	SSW900A0030T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,703	E19 (E1)
	30	45	25	31	SSW900B0045T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$1,976	E19 (E1)
	40/50	61	30	43	SSW900B0061T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$2,181	E19 (E1)
	60/75	85	40/50	60	SSW900B0085T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$2,771	E19 (E1)
	75	105	60	75	SSW900B0105T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$3,160	E19 (E1)
	100	130	75	94	SSW900C0130T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$3,547	E19 (E1)
	125	171	100	125	SSW900C0171T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$4,270	E19 (E1)
	150	200	125	150	SSW900C0200T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$5,354	E19 (E1)
	200	255	150	185	SSW900D0255T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$7,188	E19 (E1)
	250	312	175	224	SSW900D0312T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$7,896	E19 (E1)
	300	365	200	263	SSW900D0365T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$8,721	E19 (E1)
	350	412	250	298	SSW900D0412T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$9,465	E19 (E1)
	300%, 30s, 5 starts/hr @ 40°C		450%, 30s, 4 starts/hr @ 40°C		Input Power Supply: Three-Phase 460 VAC					
	400	480	300	354	SSW900E0480T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$11,730	E19 (E1)
	500	604	350	409	SSW900E0604T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$13,082	E19 (E1)
	600	670	400	454	SSW900E0670T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$14,878	E19 (E1)
	700	820	450	553	SSW900F0820T5E3B	F	29.9 x 18.3 x 12.4	166.2	\$17,573	E19 (E1)
	800	950	500	643	SSW900F0950T5E3B	F	29.9 x 18.3 x 12.4	166.2	\$26,592	E19 (E1)
	900	1100	650	745	SSW900G1100T5E3B	G	36.0 x 21.2 x 12.4	236.3	\$33,351	E19 (E1)
	1200	1400	850	953	SSW900G1400T5E3B	G	36.0 x 21.2 x 12.4	236.3	\$42,863	E19 (E1)

Notes:

1) HP rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of starter.

3) Must be used with ventilation kit.

4) Crushers, loaded conveyors, shredders, wood chippers, centrifuges, high-inertia centrifugal fans, ball mills, hammer mills, etc., are application examples where a heavy-duty rated soft starter should be used.

SSW900 Series

Protected Chassis Enclosure

Motor Voltage	Motor HP ¹	Starter Amps ²	Motor HP ¹	Starter Amps ²	Catalog Number	Frame Size ³	Dimensions (in) H x W x D	Approx. Weight (lbs)	List Price	Multiplier New (old)
	Standard Duty		Heavy Duty ⁴							
Three-Phase / 575 VAC	300%, 30s, 10 starts/hr @ 55°C		450%, 30s, 4 starts/hr @ 55°C		Input Power Supply: Three-Phase 575 VAC					
	7.5	10	7.5	10	SSW900A0010T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,386	E19 (E1)
	15	17	10	14	SSW900A0017T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,429	E19 (E1)
	20	24	20	20	SSW900A0024T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,572	E19 (E1)
	30	30	25	25	SSW900A0030T5E2B	A	7.9 x 5.0 x 8.0	4.3	\$1,703	E19 (E1)
	40	45	30	31	SSW900B0045T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$1,976	E19 (E1)
	60	61	40	43	SSW900B0061T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$2,181	E19 (E1)
	75	85	50/60	60	SSW900B0085T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$2,771	E19 (E1)
	100	105	75	75	SSW900B0105T5E2B ³	B	8.2 x 5.7 x 10.2	8.9	\$3,160	E19 (E1)
	125	130	100	94	SSW900C0130T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$3,547	E19 (E1)
	150	171	125	125	SSW900C0171T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$4,270	E19 (E1)
	200	200	150	150	SSW900C0200T5E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$5,354	E19 (E1)
	250	255	200	185	SSW900D0255T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$7,188	E19 (E1)
	300	312	250	230	SSW900D0312T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$7,896	E19 (E1)
	350	365	250	263	SSW900D0365T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$8,721	E19 (E1)
	400	412	300	298	SSW900D0412T5E3B	D	13.0 x 8.9 x 11.1	28.3	\$9,465	E19 (E1)
	300%, 30s, 5 starts/hr @ 40°C		450%, 30s, 4 starts/hr @ 40°C		Input Power Supply: Three-Phase 575 VAC					
	500	480	350	354	SSW900E0480T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$11,730	E19 (E1)
	650	604	400	409	SSW900E0604T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$13,082	E19 (E1)
	750	670	500	454	SSW900E0670T5E3B	E	22.6 x 15.4 x 10.2	83.7	\$14,878	E19 (E1)
	850	820	600	553	SSW900F0820T5E3B	F	29.9 x 18.3 x 12.4	166.2	\$17,573	E19 (E1)
	1050	950	700	643	SSW900F0950T5E3B	F	29.9 x 18.3 x 12.4	166.2	\$26,592	E19 (E1)
	1200	1100	800	745	SSW900G1100T5E3B	G	36.0 x 21.2 x 12.4	236.3	\$33,351	E19 (E1)
	1500	1400	1050	953	SSW900G1400T5E3B	G	36.0 x 21.2 x 12.4	236.3	\$42,863	E19 (E1)
3Ph, 690 VAC ⁵	300%, 30s, 10 starts/hr @ 55°C		450%, 30s, 4 starts/hr @ 55°C		Input Power Supply: Three-Phase 690 VAC					
	150	130	100	94	SSW900C0130T6E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$4,529	E19 (E1)
	200	171	150	125	SSW900C0171T6E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$5,705	E19 (E1)
	250	200	200	150	SSW900C0200T6E2B ³	C	10.9 x 8.8 x 10.3	14.4	\$7,172	E19 (E1)
	300	255	250	185	SSW900D0255T6E3B	D	13.0 x 8.9 x 11.1	28.3	\$8,242	E19 (E1)
	400	312	300	230	SSW900D0312T6E3B	D	13.0 x 8.9 x 11.1	28.3	\$8,948	E19 (E1)
	450	365	350	263	SSW900D0365T6E3B	D	13.0 x 8.9 x 11.1	28.3	\$9,299	E19 (E1)
	550	412	400	298	SSW900D0412T6E3B	D	13.0 x 8.9 x 11.1	28.3	\$11,181	E19 (E1)
	300%, 30s, 5 starts/hr @ 40°C		450%, 30s, 4 starts/hr @ 40°C		Input Power Supply: Three-Phase 690 VAC					
	600	480	450	354	SSW900E0480T6E3B	E	22.6 x 15.4 x 10.2	83.7	\$13,841	E19 (E1)
	750	604	550	409	SSW900E0604T6E3B	E	22.6 x 15.4 x 10.2	83.7	\$15,439	E19 (E1)
	850	670	600	454	SSW900E0670T6E3B	E	22.6 x 15.4 x 10.2	83.7	\$14,932	E19 (E1)
	1000	820	650	553	SSW900F0820T6E3B	F	29.9 x 18.3 x 12.4	166.2	\$17,646	E19 (E1)
	1200	950	750	643	SSW900F0950T6E3B	F	29.9 x 18.3 x 12.4	166.2	\$28,794	E19 (E1)
	1400	1100	900	745	SSW900G1100T6E3B	G	36.0 x 21.2 x 12.4	236.3	\$34,673	E19 (E1)
	1700	1400	1200	953	SSW900G1400T6E3B	G	36.0 x 21.2 x 12.4	236.3	\$44,509	E19 (E1)

Notes:

1) HP rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of starter.

3) Must be used with ventilation kit.

4) Crushers, loaded conveyors, shredders, wood chippers, centrifuges, high-inertia centrifugal fans, ball mills, hammer mills, etc., are application examples where a heavy-duty rated soft starter should be used.

5) The 690 VAC Soft starters are not UL Listed and are non-stocked items. Please consult WEG for availability.

Options & Accessories

Type	Catalog Number	Description	List Price	Multiplier New (old)
Keypad	SSW900-HMI-BLT	Standard Bluetooth Keypad	\$345	E19 (E1)
	SSW900-KMD-CB01	Remote Keypad Frame + 1 m (3.3 ft) Cable	\$65	E19 (E1)
	SSW900-KMD-CB02	Remote Keypad Frame + 2 m (6.6 ft) Cable	\$75	E19 (E1)
	SSW900-KMD-CB03	Remote Keypad Frame + 3 m (10 ft) Cable	\$85	E19 (E1)
	SSW900-KMD-CB05	Remote Keypad Frame + 5 m (16 ft) Cable	\$115	E19 (E1)
	SSW900-KMD-CB07	Remote Keypad Frame + 7.5 m (26 ft) Cable	\$155	E19 (E1)
	SSW900-KMD-CB10	Remote Keypad Frame + 10 m (33 ft) Cable	\$195	E19 (E1)
	SSW900-KMD-CB20	Remote Keypad Frame + 20 m (66 ft) Cable	\$355	E19 (E1)
Communication	SSW900-CDN-N	Devicenet Anybus plug-in module	\$1,280	E19 (E1)
	SSW900-CETH-IP-N	Dual Port Ethernet/IP Anybus plug-in module	\$2,215	E19 (E1)
	SSW900-CMB-TCP-N	Dual Port Modbus TCP Anybus plug-in module	\$1,800	E19 (E1)
	SSW900-CPDP-N	Profibus DP Anybus plug-in module	\$1,175	E19 (E1)
	SSW900-CPN-IO-N	Dual Port ProfiNet IO Anybus plug-in module	\$2,075	E19 (E1)
	SSW900-CRS485-W	RS485 plug-in module	\$170	E19 (E1)
	SSW900-CAN-W	CANopen and DeviceNet plug-in module	\$330	E19 (E1)
	SSW900-CETH-W	Dual Port Ethernet/IP or Modbus TCP	\$682	E19 (E1)
I/O Expansion	SSW900-PT100-W	PT100 temperature transducer module (6 inputs)	\$430	E19 (E1)
Ventilation Kits	SSW0708900-KVT-2B	Ventilation Kit for SSW07, Frame-2 and SSW900, Frame-B (45–105 A)	\$65	E17 (E1)
	SSW0708900-KVT-3C	Ventilation Kit for SSW07, Frame-3 and SSW900, Frame-C (130–200 A)	\$94	E17 (E1)
IP20 Kits	SSW0708900-IP20-3C	IP20 Kit for SSW07, Frame-3 and SSW900, Frame-C (130–200 A)	\$62	E17 (E1)
	SSW0708900-IP20-4D	IP20 Kit for SSW07, Frame-4 and SSW900, Frame-D (255–412 A)	\$130	E17 (E1)
Front Cover Kit	SSW0708900-PROT-3C	Front Cover Kit for power terminals for SSW07, Frame-3 and SSW900, Frame-C (130–200 A)	\$55	E17 (E1)
	SSW0708900-PROT-4D	Front Cover Kit for power terminals for SSW07, Frame-4 and SSW900, Frame D (255–412 A)	\$65	E17 (E1)
	SSW900-PROT-E	Front Cover Kit for power terminals for SSW900 frame E (480–670 A)	\$130	E19 (E1)
External Current Transformers	SSW900-KECA-10	External Current Transformer for SSW900 10 A	\$415	E19 (E1)
	SSW900-KECA-17	External Current Transformer for SSW900 17 A	\$435	E19 (E1)
	SSW900-KECA-24	External Current Transformer for SSW900 24 A	\$455	E19 (E1)
	SSW900-KECA-30	External Current Transformer for SSW900 30 A	\$470	E19 (E1)
	SSW900-KECA-45	External Current Transformer for SSW900 45 A	\$510	E19 (E1)
	SSW900-KECA-61	External Current Transformer for SSW900 61 A	\$540	E19 (E1)
	SSW900-KECA-85	External Current Transformer for SSW900 85 A	\$565	E19 (E1)
	SSW900-KECA-105	External Current Transformer for SSW900 105 A	\$580	E19 (E1)
	SSW900-KECA-130	External Current Transformer for SSW900 130 A	\$620	E19 (E1)
	SSW900-KECA-171	External Current Transformer for SSW900 171 A	\$650	E19 (E1)
	SSW900-KECA-200	External Current Transformer for SSW900 200 A	\$680	E19 (E1)
	SSW900-KECA-255	External Current Transformer for SSW900 255 A	\$845	E19 (E1)
	SSW900-KECA-312	External Current Transformer for SSW900 312 A	\$885	E19 (E1)
	SSW900-KECA-365	External Current Transformer for SSW900 365 A	\$915	E19 (E1)
	SSW900-KECA-412	External Current Transformer for SSW900 412 A	\$930	E19 (E1)

SSW900 Series

Options & Accessories

Type	Catalog Number	Description	List Price	Multiplier New (old)
Busbar Extension Kits	SSW900-6BAR-E	Kit with six (6) busbars for Frame-E for external bypass connection using only compression lugs (e.g. LCAX450-12-6, lug not included in the kit)	\$350	E19 (E1)
	SSW900-3BAR-E-L	Kit with three straight busbars for Frame-E for mechanical Lug "PB2-600". If all top or all bottom cable connections are needed using "PB2-600" lugs, use two (2) kits. (Lugs are not included in the kit).	\$175	E19 (E1)
	SSW900-6BAR-F	Kit with six (6) busbars for Frame-F for external bypass connection using only compression lugs (e.g. LCAX650-58-6 OR LCAX750-12-3, lugs not included in the kit)	\$435	E19 (E1)
	SSW900-3BAR-F-L	Kit with three straight busbars for Frame-F to connect three or four cables per phase using Compression lugs (e.g. 3 x LCAN400-12-6 OR 4 x LCAX250-58-X, Lugs are not included in the kit)	\$340	E19 (E1)
	SSW900-3BAR-F-L45S	Kit with three 45° angled (going downwards) busbars for Frame-F for all top or all bottom cable connections.	\$395	E19 (E1)
	SSW900-3BAR-F-L45L	Kit with three 45° angled (going upwards) busbars for Frame-F for all top or all bottom cable connections.	\$445	E19 (E1)
	SSW900-3BAR-G	Kit with three 45° angled (going downwards) busbars for Frame-G for all top or all bottom cable connections. Two (2) kits are needed if external bypass contactor is used.	\$515	E19 (E1)
SSW900 Adapter Plates	ADP-1-A	SSW06, Frame-1 to SSW900, Frame-A Adapter Plate	\$115	E19 (E1)
	ADP-2-B	SSW06, Frame-2 to SSW900, Frame-B Adapter Plate	\$135	E19 (E1)
	ADP-23-C	SSW06, Frame-2 & 3 to SSW900, Frame-C Adapter Plate	\$180	E19 (E1)
	ADP-4-D	SSW06, Frame-4 to SSW900, Frame-D Adapter Plate	\$255	E19 (E1)
	ADP-5-DE	SSW06, Frame-5 to SSW900, Frame-D & E Adapter Plate	\$325	E19 (E1)
	ADP-6-EF	SSW06, Frame-6 to SSW900, Frame-E & F Adapter Plate	\$420	E19 (E1)
	ADP-7-F	SSW06, Frame-7 to SSW900, Frame-F Adapter Plate	\$430	E19 (E1)
	ADP-7-FG	SW06, Frame-7 to SSW900, Frame-F & G Adapter Plate	\$435	E19 (E1)
	ADP-8-G	SSW06, Frame-8 to SSW900, Frame-G Adapter Plate	\$445	E19 (E1)



SSW900 Adapter Plate Table

SSW06		Adapter Plate Catalog #	SSW900	
Frame Size	Current Rating		Frame Size	Current Rating
1	10	ADP-1-A	A	10
	16			17
	23			24
	30			30
2	45	ADP-2-B	B	45
	60			61
	85			85
	-			105
	130			130
3	170	ADP-23-C	C	171
	205			200
4	255	ADP-4-D	D	255
	312			312
	365			365
5	412	ADP-5-DE	E	412
	480			480
	604			604
6	670	ADP-6-EF	F	670
	820			820
7	950	ADP-7-F	F & G	950
		ADP-7-FG		820–1400
8	1100	ADP-8-G	G	1100
	1400			1400

Adapter Plate Catalog Number: ADP- 1 - A



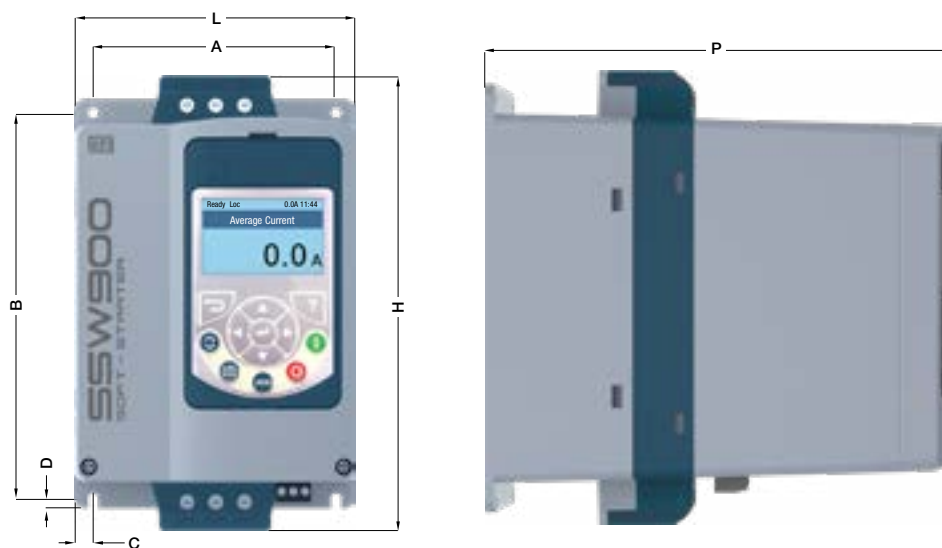
SSW900 Series

Dimensions

Frame Size IP00	Height 'H' in (mm)	Width 'L' in (mm)	Depth 'P' in (mm)	'A' in (mm)	'B' in (mm)	'C' in (mm)	'D' in (mm)	Mounting Screw	Weight lbs (kg)
A¹	7.87 (200)	5.00 (127)	7.99 (203)	7.33 (110)	6.89 (175)	0.33 (8.5)	0.17 (4.3)	M4	4.25 (1.93)
B¹	8.19 (208)	5.67 (144)	10.24 (260)	5.20 (132)	5.83 (148)	0.24 (6)	0.13 (3.4)	M4	8.86 (4.02)
C	10.87 (276)	8.78 (223)	10.28 (261)	8.19 (208)	8.27 (210)	0.30 (7.5)	0.20 (5.0)	M5	14.44 (6.55)
D	13.03 (331)	8.94 (227)	11.10 (282)	7.87 (200)	11.02 (280)	0.59 (15)	0.35 (9)	M8	28.29(12.83)
E	22.64 (575)	15.35 (390)	10.24 (260)	10.63 (270)	18.90 (480)	2.20 (56)	0.39 (10)	M8	83.78(38.00)
F	29.92 (760)	18.27 (464)	12.44 (316)	12.60 (320)	24.61 (625)	2.83 (72)	0.39 (10)	M8	166.23(75.40)
G	35.98 (914)	21.22 (539)	12.44 (316)	14.53 (369)	28.82 (732)	3.35 (85)	0.47 (12)	M10	236.34(107.20)

Notes:

1) Frame A and B are IP20 protection rating.



Technical Data

Power Supply	Main Voltage	Three-phase 220–575 VAC (-15%, +10%) (Or 3-Ph, 187–632 VAC)	
	Control Voltage	Frame-A to C: Single-phase 110–240 VAC (-15%, +10%) (Or 1-Ph, 93.5–264 VAC) Frame-D to G: Single-phase 110–130 VAC (-15%, +10%) (Or 1-Ph, 93.5–143 VAC)	
	Frequency	50–60 Hz (+/- 10%) (Or 45–66 Hz)	
Enclosure	Degree of Protection	Frame-A, B: IP20 Frame-C to G: IP00	
Control	Method	Voltage Ramp, Voltage Ramp + Current Limit, Current Limit, Current Ramp Pump Control, Torque Control, D.O.L	
Starting Duty Cycle		Frame-A, B with ventilation kit, C with ventilation kit, D: 300% (3 x Rated) for 30 seconds, 10 Starts per hr Frame-B w/o ventilation kit and C w/o ventilation kit: 300% (3 x Rated) for 30 seconds, 3 Starts per hr Frame-E, F and G: 300% (3 x rated) for 30 seconds, 5 starts per hr	
Control Inputs	Digital	5 x 24 VDC Programmable isolated inputs 1 x Motor PTC Thermistor	
Control Outputs	Relay	2 programmable outputs, 240 VAC (30 VDC) / 2 A Form A Contact (NO) 1 programmable output, 240 VAC (30 VDC) / 2 A Form C Contact (NO+NC)	
	Analog	1 programmable 0–10 V or 0 / 4–20 mA output	
Safety	Protections	Motor Voltage Imbalance	Start Overtime
		Motor Supply Undervoltage/Overvoltage	Time Between Starts
		Power Short Circuit: Motor Off / Motor On	Locked Rotor
		Motor Start Phase Loss	Motor Undercurrent/Overcurrent
		Motor Overload Thermal Class	Phase Reversal
		Wrong Connection to the Motor	Control Supply Incorrect Voltage
		Motor overtemperature (via thermistor input)	Undervoltage Control Circuit
		Motor Undertorque/Overtorque	Bypass Contact Open: Not Closed
		Motor Underpower/Overpower	Bypass Contact Closed: Not Opened
		Serial Communication Fault	Overcurrent Before Bypass
		CPU Error (Watchdog)	Bypass Undercurrent
		Serial Communication Timeout	Motor Current Imbalance
		SCRs Undertemperature / Overtemperature	Frequency Out of Range
		R-U/S-V/T-W SCRs Fault	HMI Communication Timeout
		SCRs Overload	Self-diagnostic Fault
Functions / Features	Standard	Built-in detachable LCD Graphic Keypad with Bluetooth, USB port, Real Time clock and Help menu	
		Keypad with three display screens, each display screen can show up to nine variables.	
		Programming enabling password	
		LCD display Language selection: English, Spanish, German and Portuguese	
		Local / Remote operation selection	
		PUMP CONTROL function (Water hammer protection for pumps)	
		COPY function (Soft-Starter to Keypad or Keypad to Soft-Starter)	
		Soft starter integral bypass contactor for all models	
		FWD / REV Feature via Digital Input (Needs two External Contactors (FWD/REV))	
		Motor PTC thermistor input	
		Built in SoftPLC	
		Programmable line voltage	220–575 VAC
		Programmable initial (pedestal) voltage	25–90% of Rated Input Voltage
		Programmable acceleration ramp	1–999 seconds
		Programmable deceleration ramp	0–999 seconds
		Programmable step down voltage for deceleration	100–60% of line voltage
		Programmable starting current limit	OFF, 150–500% of motor rated current
		Programmable motor Overcurrent/Undercurrent	0–99% above motor rated current
		Programmable motor Overcurrent/Undercurrent time	OFF, 1–99 seconds
		Programmable motor Undertorque (loss of load) / Overtorque (overload or locked Rotor)	0–99% of motor rated current
		Programmable motor Undertorque (loss of load) / Overtorque (overload or locked Rotor) time	OFF, 1–99 seconds
		Programmable starting torque boost, voltage or current (KICKSTART)	
		Level: 70–90% of line voltage Level: 300–700% of soft starter rated current Duration: 0.1–2 seconds	
		Programmable fault auto-reset	
		OFF, 3–600 seconds	
		Motor thermal overload protection class	
		0 (Automatic); 10; 15; 20; 25; 30; 35; 40; 45	
		Motor Service Factor	
		0 (disabled); 0.01–1.50	
Ambient	Temperature	14–122°F (-10–50°C), up to 140°F (60°C) with 2% / 1.8°F (1°C) output current derating	
	Humidity	5–90% Non-condensing	
	Altitude	0–3,300 ft (1,000 m), up to 13,200 ft (4,000 m) with 1% output current derating per 330 ft (100 m) above 3,300 ft (1,000 m)	
Regulatory Conformance	IEC 60146	Semiconductor converters	
	UL 508 C	Power Conversion Equipment	
	UL 840	Insulation coordination including clearances and creepage distances for electrical equipment.	
	EN 50178	Electronic equipment for use in power installations	
	EN 61800-2	General requirements adjustable speed electrical power drive systems	
	EN 61800-3	EMC product standard including specific test methods adjustable speed electrical power drive systems	
	EN 61800-5-1	Safety requirements adjustable speed electrical power drive systems	
	EN 60204-1	Safety of machinery. Electrical equipment of machines. Part 1: General requirements.	
Approvals		RoHS and WEEE Guidelines UL, cUL, CE, C-Tick, GOST, IRAM	
Special Functions		Linear and “S” ramp accel and decel, local/remote control, FWD/REV selection, DC braking, manual and auto torque boost, motor slip compensation, electronic pot, two skip frequencies, maximum and minimum adjustable frequency limits, adjustable output current	
Keypad		4 digit display, two (2) indicator LEDs and 8 keys	
		Readouts for: output frequency (Hz), output current (A), output voltage (V), motor torque (%) in vector mode, DC bus voltage (V), value proportional to frequency (Ex.: RPM), heatsink temperature, fault and status messages	

SSW900 Series

Technical Data

Keypad	Programming / Commands	START/STOP, Reset, Jog, FWD/REV, ESC, Help, Navigation keys and Enter
		Bluetooth, USB Port, Real Time clock
	Display Readings	Soft-Starter Output current (% of soft starter rated current)
		Motor current (A): R Phase, S Phase, T Phase, Average
		Motor current % of motor rated current
		Line frequency (0–99 Hz)
		Line Voltage (0–999 VAC)
		Soft starter output voltage (0–999 VAC)
		Motor active power (kW)
		Motor apparent power (kVA)
		Soft starter status
		Digital and analog I/Os status
		Motor power factor (0.00–0.99)
		Time powered
		Time enabled
		Four last faults back-up
		Soft starter firmware version
		Motor thermal protection (0–250°C)
		Motor current indication in each phase R-S-T
		Line voltage indication R-S / S-T / T-R
Ambient	Temperature	0–131°F (0–55°C): For SSW900 frame-A to D without derating. 0–104°F (0–40°C): For SSW900 frame-E to G, above 104°F (40°C) with derating.
	Humidity	5–90% Non-condensing
	Altitude	0–3,300 ft (1,000 m), up to 13,200 ft (4,000 m). With 1% output current derating per 330 ft (100 m) above 3,300 ft (1,000 m). With 1.1% voltage derating per 330 ft (100 m) above 6,600 ft (2,000 m).
Safety Standards	UL 508	Industrial Control Equipment
	EN60947-4-2, LVD 2014/35/EU	Low-voltage Directive
Electromagnetic Compatibility Standards	CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment – electromagnetic disturbance characteristics – limits and methods of measurement
	EN 61000-4-2	Electromagnetic compatibility (EMC) – part 4: testing and measurement techniques – Sec. 2: Electrostatic discharge immunity test
	EN 61000-4-3	Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 3: radiated, radio-frequency, electromagnetic field immunity test
	EN 61000-4-4	Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 4: electrical fast transient/burst immunity test
	EN 61000-4-5	Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 5: surge immunity test
	EN 61000-4-6	Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 6: immunity to conducted disturbances, induced by radio-frequency fields
	EN 61000-4-11	Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 11: voltage dips, short interruptions and voltage variations immunity tests
	EN 60204-1	Safety of machinery. Electrical equipment of machines. Part 1: General requirements.
	Part 15 of FCC	FCC ID: S9NSPBTLERF
Mechanical Construction Standards	EN 60529	Degrees of protection provided by enclosures (IP code).
	UL 50	Enclosures for electrical equipment.
	IEC 60721-3-3	Classification of environmental conditions.
Approvals	UL, cUL, CE, C-Tick, EAC, IRAM, ABS	

INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM



SSW7000 Series – Medium Voltage Soft-Starter

WEG's SSW7000 medium voltage solid-state soft starter is an industrial general-purpose starter package for starting and protecting medium voltage (MV) AC motors.

Designed to be rugged, reliable and safe, the SSW7000 is a simple and cost effective solution for demanding applications.

Key Features & Advantages

- Four 160 V and 2300 V models in stock (NEMA 12 and NEMA 3R) up to 3000 HP (higher voltages and powers available)
- Suitable for service entrance
- Motor protections active in both DOL and 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
- SoftPLC function with license-free software
- Flexible Torque Control (FTC) allows adjusting starting torque limit curve with three points (ideal for quadratic loads)
- Motor thermal protection via PT100 monitoring available (up to eight channels)

Accessories

- PT100 monitoring (8x channels)
- Network communication modules
- FLASH memory module



Features that make a difference:

- Assembled and stocked in the US
- NEMA 12 and NEMA 3R enclosures available
- Emergency DOL start capability (ATL bypass)
- Oriented startup for easy commissioning
- UL 347 listed
- Ground fault monitoring standard

SSW7000C Catalog Number Sequence

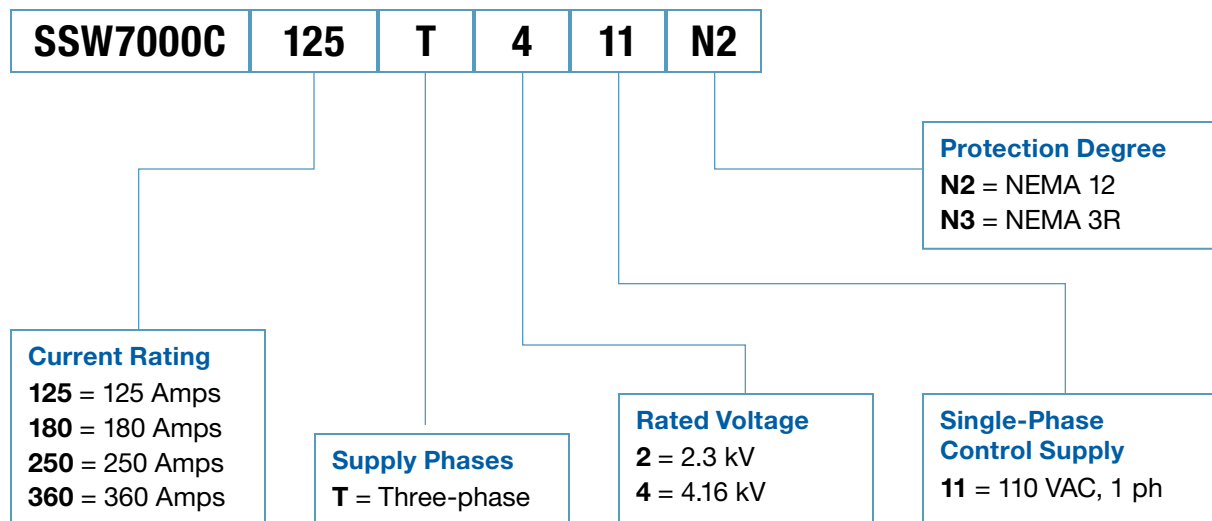


Chart intended as reference only and not to create part numbers.

Rating

Power Supply	Model	Rated Current	Motor Power		List Price	Multiplier
			HP¹	kW		
NEMA 12						
2300V, 3PH, 60 Hz	SSW7000C125T211N2	125 A	550	410	\$55,750	E3
	SSW7000C180T211N2	180 A	750	560	\$58,665	
	SSW7000C250T211N2	250 A	1100	800	\$65,195	
	SSW7000C360T211N2	360 A	1500	1100	\$67,430	
4160V, 3PH, 60 Hz	SSW7000C125T411N2	125 A	1000	750	\$63,950	
	SSW7000C180T411N2	180 A	1500	1100	\$67,195	
	SSW7000C250T411N2	250 A	2000	1500	\$75,235	
	SSW7000C360T411N2	360 A	3000	2250	\$77,980	
NEMA 3R						
2300V, 3PH, 60 Hz	SSW7000C125T211N3	125 A	550	410	\$60,820	E3
	SSW7000C180T211N3	180 A	750	560	\$63,725	
	SSW7000C250T211N3	250 A	1100	800	\$70,255	
	SSW7000C360T211N3	360 A	1600	1190	\$73,020	
4160V, 3PH, 60 Hz	SSW7000C125T411N3	125 A	1000	750	\$69,015	
	SSW7000C180T411N3	180 A	1500	1100	\$72,250	
	SSW7000C250T411N3	250 A	2000	1500	\$80,295	
	SSW7000C360T411N3	360 A	3000	2250	\$83,550	

Notes:

1) The motor power ratings given above are based on WEG 4-pole motors, 4.16 kV, 60 Hz, PF = 0.87, Eff = 0.97, SF = 1. For applications with high overloads or special starting conditions, contact WEG's sales force. Current Rating of SSW7000C must be calculated based on the information on load type, load speed/torque curve and required number of starts per hour. All models are available in 220V, 1 Ph control voltage.

Medium Voltage Soft Starter



SSW7000 Series

Options & Accessories

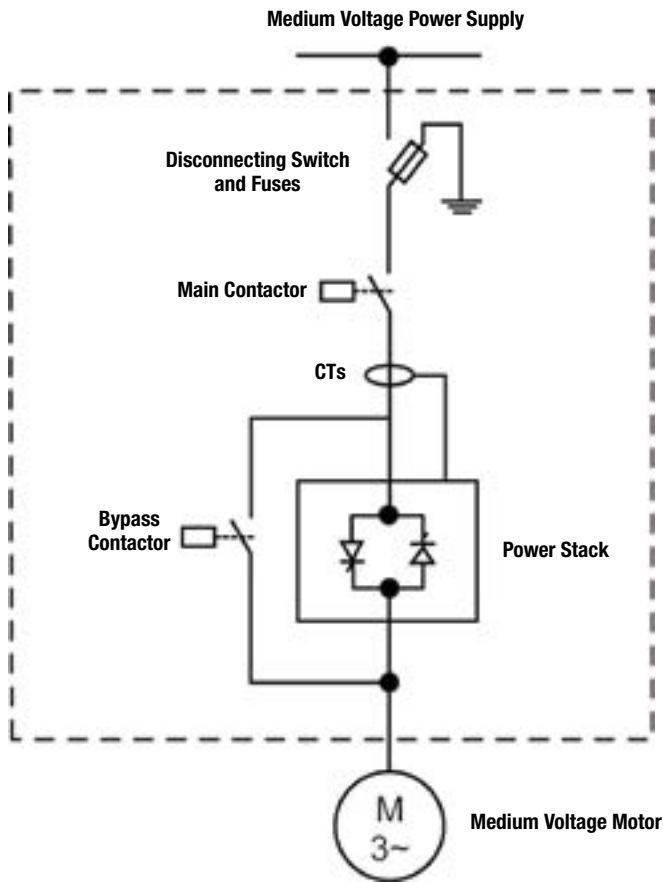
Reference	Description	Slot	List Price	Multiplier
Control accessories to install in Slots 1, 2 and 3				
IOE-04	Module for 8 temperature sensors PT100	1 and 2	\$2795	E3
RS485-01	RS-485 serial communication module (Modbus)	3	\$240	
RS232-01	RS-232C serial communication module (Modbus)		\$180	
RS232-02	RS-232C serial communication module with switch to program the microcontroller FLASH memory		\$180	
Anybus-CA Accessories to install in Slots 4				
PROFDP-05	Profibus DP interface module	4	\$1100	E3
DEVICENET-05	Devicenet interface module			
ETHERNET/IP-05	EtherNet/IP interface module			
RS232-05	RS-232 interface module (passive) (Modbus)		\$290	
RS485-05	RS485 interface module (passive) (Modbus)		\$360	
Flash Memory Module to install in Slot 5: Included in Standard Models				
MMF-01	FLASH memory module	5	\$71	V1
Other Accessories				
HMI-01	Man-Machine Interface (MMI) – sold separately	-	\$320	V1
RHMIF-01	Frame kit for MMI (protection rate IP56)		\$69	

Dimensions (in)

Same for NEMA 12 and NEMA 3R.



Line Diagram



Protections

ANSI/IEEE C37.2	Function/Protection Feature	Standard	Option
		☒	☐
19	Reduced voltage starting and bypass	☒	☐
27	Undervoltage protection	☒	☐
37	Undercurrent protection	☒	☐
46	Phase-balance current protection	☒	☐
47	Phase sequence	☒	☐
48	Incomplete sequence	☒	☐
50	Instantaneous overcurrent trip	☒	☐
51	Overcurrent trip	☒	☐
55	Power factor check	☒	☐
59	Overvoltage	☒	☐
81	Frequency check	☒	☐
86	Lockout relay: electronic	☒	☐
50N/51G	Ground fault detection instantaneous and fault-current	☒	☐
49 & 38	Winding temperature and bearing temperature	☐	☐

Medium Voltage Soft Starter



SSW7000 Series

Standard Features

- Motor voltage: 2.3kV, 4.16kV
- Power: up to 3000 HP
- Protection degree: NEMA 12, NEMA 3R
- Operating interface (HMI) with graphic LCD
- Real time clock
- Main and bypass vacuum contactors
- Emergency direct on line (DOL) start capability (ATL bypass)
- Medium voltage fuses
- Power and control insulated by fiber optics
- SoftPLC Function
- License Free programming software SuperDrive and WLP (WEG Ladder Programmer)
- Motor thermal protection: PT100 (accessory), eight channels
- Ground Fault Protection: standard
- Five start modes
- Network communication boards (accessories): DeviceNet, Profibus-DP, Ethernet and Modbus, RS-232 or RS-485

Advantages

- Flexible Torque control
- Overload capacity of 400% for 20 seconds. (2x/hour duty cycle)
- Management of Demand restrictions by the electric company
- Bump-less starting
- Motor protection
- Mechanical wear reduction
- Handles lower inrush current limitations of power supply



Special Features

- Clean assembly with easy accessibility to all components.
- Flexible Torque Control (FTC), by employing torque estimation using vector control principle and measurement of input voltage, output voltage and output current. This provides more accurate torque set-points, compared to estimating torque values only via current measurement.
- Active Protection offers complete motor protection in DOL START and RUN mode. This eliminates need for any expensive motor protection relays for backup protection.
- Ground Fault protection is standard.
- Thermal performance curves (TPCs) setup and selection that eliminates need for third party expensive protection relays.
- SoftPLC function with license-free software.
- Nickel plated busbars and bus-stub connections provide corrosion resistance and ensure proper electrical connection.
- Power connection terminals for TOP or BOTTOM motor connection (bottom only for NEMA 3R).
- Operator Interface (keypad, parameter setup) is identical to that of WEG's low voltage starter products.
- Successfully tested per International Building Code 2018 (IBC 2018) and California Building Code 2019 (CBC 2019).



CERTIFICATIONS



Technical Data

Power Supply	Power voltage (R/1 L1, S/3L2, T/5L3)	Low voltage test: 500 VAC: (-60% to +10%) or (200–550 VCA) Models: 2300 VAC: (-60% to +10%) or (920–2530 VCA) 4160 VAC: (-60% to +10%) or (2760–4576 VCA)
	Frequency	(50–60 Hz): (±10%) or (45–66 Hz)
Capacity	Maximum number of starts	5 starts in 2 hours (1 start every 30 minutes)
	Start cycle	AC-53a; 4.5-30:50-2
Thyristors	Medium voltage SCR per power arm	2300 VAC: two (2) thyristors per power stack 4160 VAC: two (2) coupled pairs of thyristors
	Reverse voltage peak on the arm	2300 VAC: 6.5 kV 4160 VAC: 13 kV
Protections	Protection by Hardware	DV/DT filter Active overvoltage protection on the thyristors
Control Supply	Control voltage	As per code of the SSW7000: 110 VAC: (-15% to 10%) or (93.5–121 VAC) 230 VAC: (-15% to 10%) or (195.6–253 VAC)
	Frequency	(50–60 Hz): (±10%) or (45–66 Hz)
	Consumption	Continuous: 900 mA Peak: 9.5 A (during the closing of the Vacuum contactors)
Control	Method	Voltage ramp. Current limitation. Pump control. Torque control. Current ramp.
Inputs	Digital	6 insulated digital inputs, 24 VDC, programmable functions
	Analog	2 differential inputs insulated by differential amplifier; AI1 resolution: 12 bits, AI2 resolution: 11 bits + signal, (0–10) V, (0–20) mA or (4–20) mA, Impedance: 400kΩ for (0–10V), 500Ω for (0–20 mA) or (4–20 mA), programmable functions
Outputs	Digital	3 NO/NC contact relays, 240 VAC, 1 A, programmable functions.
	Analog	2 insulated outputs, (0–10V) RL ± 10kΩ (maximum load), 0–20 mA or 4–20 mA RL < 500Ω, 11-bit resolution, programmable functions
Man Machine Interface	Standard	9 keys: Turn/Stop, Increase, Decrease, Rotation Direction, Jog, Local/Remote, right Soft key and left Soft key. Graphic LCD. It enables access to/change of all parameters.
Safety	Main protections	Under and Overcurrent and current unbalance. Under and Overvoltage and voltage unbalance. Under and Overtorque and Active overpower Phase loss. Reverse phase sequence Overtemperature in the power racks. Motor overload. Motor overtemperature (optional). External defect. Ground fault by voltage or current. Fault in the power racks. Fault in the power contactors. Faults in the control boards. Communication faults of MMI and between controls. Faults in the communication networks. Programming errors. For further details and more protections implemented, refer to the programming manual.
Enclosures	Protection Degree	NEMA 12, NEMA 3R
PC Connection for ProgrammingS	USB Connector	USB standard Rev. 2.0 (basic speed) USB plug type B "device" Interconnecting Cable: standard host/device shielded USB cable
Environmental Conditions	Temperature	14–104°F (-10–40°C)
	Altitude	Up to 1,000 m above sea level. For higher altitudes, contact our sales force.
	Relative Air Humidity	5–90% Non-condensing
Standards	NBR IEC 62271-200	High voltage controlgear and switchgear – Part 200: High voltage controlgear and switchgear in metal enclosure for voltages over 1 kV up to and including 52 kV
	IEC 62271-1	High-voltage switchgear and controlgear – Part 1: Common specifications
	IEC 60060-1	High-voltage test techniques – Part 1: General definitions and test requirements
	CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment – electromagnetic disturbance characteristics – limits and methods of measurement
	IEC 61000-4-4	Electromagnetic compatibility (EMC) – Part 4: testing and measurement techniques – Sec. 4: electrical fast transient/burst immunity test. Basic EMB publication
	IEC 61000-4-18	Electromagnetic compatibility (EMC) – Part 4-18: testing and measurement techniques – damped oscillatory wave immunity test
	NBR IEC 60529	Protection rates for electric equipment enclosures (IP code)
	UL 347	Medium Voltage AC Contactors, Controllers and Control Centers
	UL 347B	Medium Voltage Motor Controllers

EDP11 Series – Enclosed Drive Panels

The Engineered Drive Panel is an industrial, general-purpose AC motor control and protection package designed for fast installation and start-up. Only input power and motor output connections are required.

Two enclosure options are available: NEMA 12, ventilated for indoor applications, and NEMA 3R for outdoor installations

Built to complement the ruggedness and reliability of WEG motors, the Engineered Drive Panel provides a complete, simple, and cost-effective solution for AC motor control, monitoring, and protection.

NEMA 12 Features

- CFW11 VFD with dual DC choke (built-in)
- Indoor-rated enclosure
- Frame sizes ED1–ED4: Non-ventilated, wall-mounted
- Frame size ED5: Non-ventilated, floor-mounted
- Frame sizes ED6–ED10: Ventilated, floor-mounted
- Circuit breaker with through-door handle (ED1–ED5, ED8, ED9)
- Circuit breaker with flange-mounted handle and electrically operated interlock (ED6, ED7, ED10)
- Fused 480V/120V control power transformer (CPT)
- Internal cooling fan
- Motor terminal block
- Door-mounted keypad with protective cover
- START/STOP pushbuttons
- RUN/FAULT pilot lights
- Frame sizes ED1–ED5: Drive and controls mounted in NEMA 4 compartment; heat sink external and NEMA 12 rated
- Frame sizes ED6–ED10: Drive fully enclosed within panel

NEMA 3R Features

- Includes all NEMA 12 features, plus:
 - Outdoor-rated enclosure
 - Weather protection kit (rain, sun, and snow shield)
 - Panel space heater with thermostat
 - Lightning arrestor
 - Service-entrance rated

Stocked Products

See Page 126



3-Contactor Bypass Option

- NEMA 12 or NEMA 3R version
- AC3 full-rated bypass contactor
- Drive input and output contactors
- Motor overload relay
- E-stop mushroom-style pushbutton
- Enclosure size to be determined

HOA/POT/TB Option

- HOA = HAND-OFF-AUTO
- POT = Potentiometer for Speed Reference
- TB = Auxiliary Control Terminal Block for Remote Command

EDP11 Catalog Number Sequence

EDP11	S	024	G	N12	1	1	0	0	0
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Configuration

S = Standard
(Frames ED1 to ED5)
E = Enhanced
(Frames ED6 to ED10)

Operator Devices

0 = No HOA, Pot, TB
1 = HOA, Pot, TB

Current Rating

003 = 3 Amps
007 = 7 Amps
024 = 24 Amps
045 = 45 Amps
070 = 70 Amps
105 = 105 Amps
180 = 180 Amps
211 = 211 Amps
370 = 370 Amps
515 = 515 Amps
720 = 720 Amps
1141 = 1141 Amps

Supply Voltage

D = 200–240 VAC
G = 460–480 VAC

Enclosure

N12 = NEMA 12
N3R = NEMA 3R

3-Contactor Bypass ¹

1 = With Bypass
0 = No Bypass

Chart intended as reference only and not to create part numbers.

1) Bypass contactor and overload is "full rated" and mounted adjacent the VFD.

Variable Frequency Drives



EDP11 Series

Engineered Drive Panel – NEMA 12 Enclosure (no Bypass)

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Approx. Weight (lbs) ⁸	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–240 VAC										
	2	7.0	1 1/2	5.5	EDP11S007DN12	Yes	A ⁵	ED1	130	\$6,690	V1E (V1)
	3	10	2	8.0	EDP11S010DN12	Yes	A ⁵	ED1	130	\$6,756	V1E (V1)
	5	13	3	11	EDP11S013DN12	Yes	A ⁵	ED1	130	\$6,855	V1E (V1)
	5	16	5	13	EDP11S016DN12	Yes	A ⁵	ED1	150	\$7,123	V1E (V1)
	7 1/2	24	7 1/2	20	EDP11S024DN12	Yes	B ⁵	ED1	170	\$7,664	V1E (V1)
	10	28	10	24	EDP11S028DN12	Yes	B ⁵	ED1	170	\$8,408	V1E (V1)
	10	33.5	10	28	EDP11S033DN12	Yes	B ⁵	ED1	170	\$9,108	V1E (V1)
	15	45	15	36	EDP11S045DN12	Yes	C ⁵	ED2	210	\$10,214	V1E (V1)
	20	54	20	45	EDP11S054DN12	Yes	C ⁵	ED2	210	\$11,491	V1E (V1)
	25	70	20	56	EDP11S070DN12	Yes	C ⁵	ED2	290	\$12,162	V1E (V1)
	30	86	25	70	EDP11S086DN12	Yes	D ⁵	ED3	360	\$14,321	V1E (V1)
	40	105	30	86	EDP11S105DN12	Yes	D ⁵	ED3	480	\$17,164	V1E (V1)
	50	142	40	115	EDP11S142DN12	No	E ⁶	ED4	560	\$19,793	V1E (V1)
	60	180	50	142	EDP11S180DN12	No	E ⁶	ED4	580	\$25,116	V1E (V1)
	75	211	60	180	EDP11S211DN12	No	E ⁶	ED4	580	\$28,326	V1E (V1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC										
	2	3.6	2	3.6	EDP11S003GN12	Yes	A ⁵	ED1	130	\$6,510	V1E (V1)
	3	5.0	3	5.0	EDP11S005GN12	Yes	A ⁵	ED1	130	\$6,626	V1E (V1)
	5	7.0	3	5.5	EDP11S007GN12	Yes	A ⁵	ED1	130	\$6,690	V1E (V1)
	7 1/2	10	5	10	EDP11S010GN12	Yes	A ⁵	ED1	130	\$6,756	V1E (V1)
	10	13.5	7 1/2	11	EDP11S013GN12	Yes	A ⁵	ED1	130	\$6,855	V1E (V1)
	10	17	10	13.5	EDP11S017GN12	Yes	B ⁵	ED1	150	\$7,269	V1E (V1)
	15	24	10	19	EDP11S024GN12	Yes	B ⁵	ED1	150	\$7,821	V1E (V1)
	20	31	15	25	EDP11S031GN12	Yes	B ⁵	ED1	150	\$8,580	V1E (V1)
	25	38	20	33	EDP11S038GN12	Yes	C ⁵	ED2	210	\$9,293	V1E (V1)
	30	45	25	38	EDP11S045GN12	Yes	C ⁵	ED2	210	\$10,422	V1E (V1)
	40	58.5	30	47	EDP11S058GN12	Yes	C ⁵	ED2	210	\$12,026	V1E (V1)
	50/60	70.5	40	61	EDP11S070GN12	Yes	D ⁵	ED3	360	\$12,729	V1E (V1)
	75	88	50	73	EDP11S088GN12	Yes	D ⁵	ED3	360	\$14,988	V1E (V1)
	75	105	75	88	EDP11S105GN12	No	E ⁶	ED4	490	\$17,964	V1E (V1)
	100/125	142	75	115	EDP11S142GN12	No	E ⁶	ED4	520	\$20,715	V1E (V1)
	150	180	100	142	EDP11S180GN12	No	E ⁶	ED4	560	\$26,286	V1E (V1)
	175	211	125	180	EDP11S211GN12	No	E ⁶	ED4	560	\$29,645	V1E (V1)
	200	242	150	211	EDP11E242GN12	No	F ⁶	ED6	980	\$40,755	V1E (V1)
	250	312	200	242	EDP11E312GN12	No	F ⁶	ED6	980	\$45,114	V1E (V1)
	300	370	250	312	EDP11E370GN12	No	F ⁶	ED6	1030	\$47,743	V1E (V1)
	400	477	300	370	EDP11E477GN12	No	F ⁶	ED6	1100	\$54,585	V1E (V1)
	450	515	400	477	EDP11E515GN12	No	G ⁶	ED8	1550	\$66,023	V1E (V1)
	500	601	450	515	EDP11E601GN12	No	G ⁶	ED8	1650	\$71,875	V1E (V1)
	600	720	500	560	EDP11E720GN12	No	G ⁷	ED8	1650	\$88,556	V1E (V1)
	700	795	550	637	EDP11E795GN12	No	H ⁷	ED10	2200	\$109,150	V1E (V1)
	750	877	600	715	EDP11E877GN12	No	H ⁷	ED10	2200	\$116,300	V1E (V1)
	950	1062	750	855	EDP11E1062GN12	No	H ⁷	ED10	2500	\$136,120	V1E (V1)
	1000	1141	800	943	EDP11E1141GN12	No	H ⁷	ED10	2500	\$147,575	V1E (V1)

Notes:
1) CT (Constant Torque): 150% overload for 60 seconds.; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.
2) "HP" rating based on "average FLA values." Use as a guide only.
3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.
4) ED1–ED5 enclosures are non-ventilated. ED1–ED4 enclosures are wall-mounted (ED5 is free-standing). ED6–ED10 enclosures are ventilated and floor-mounted.
5) Maximum 45°C ambient temperature without derating.
6) Maximum 40°C ambient temperature without derating.
7) Maximum 35°C ambient temperature without derating.
8) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.
For other technical data please refer to WEG product manual.

Engineered Drive Panel – NEMA 12 Enclosure with Bypass

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Approx. Weight (lbs) ⁸	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps: ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–240 VAC										
	2	7.0	1 1/2	5.5	EDP11S007DN1210000	Yes	A ⁵	ED2	130	\$8,200	V1E (V1)
	3	10	2	8.0	EDP11S010DN1210000	Yes	A ⁵	ED2	130	\$8,276	V1E (V1)
	5	13	3	11	EDP11S013DN1210000	Yes	A ⁵	ED2	130	\$8,375	V1E (V1)
	5	16	5	13	EDP11S016DN1210000	Yes	A ⁵	ED2	150	\$8,643	V1E (V1)
	7 1/2	24	7 1/2	20	EDP11S024DN1210000	Yes	B ⁵	ED2	170	\$9,262	V1E (V1)
	10	28	10	24	EDP11S028DN1210000	Yes	B ⁵	ED2	170	\$10,200	V1E (V1)
	10	33.5	10	28	EDP11S033DN1210000	Yes	B ⁵	ED2	170	\$11,011	V1E (V1)
	15	45	15	36	EDP11S045DN1210000	Yes	C ⁵	ED3	210	\$12,316	V1E (V1)
	20	54	20	45	EDP11S054DN1210000	Yes	C ⁵	ED3	210	\$13,738	V1E (V1)
	25	70	20	56	EDP11S070DN1210000	Yes	C ⁵	ED3	290	\$14,857	V1E (V1)
	30	86	25	70	EDP11S086DN1210000	Yes	D ⁵	ED4	360	\$17,016	V1E (V1)
	40	105	30	86	EDP11S105DN1210000	Yes	D ⁵	ED4	480	\$20,052	V1E (V1)
	50	142	40	115	EDP11S142DN1210000	No	E ⁶	ED5	560	\$24,778	V1E (V1)
	60	180	50	142	EDP11S180DN1210000	No	E ⁶	ED5	580	\$31,111	V1E (V1)
	75	211	60	180	EDP11S211DN1210000	No	E ⁶	ED5	580	\$35,651	V1E (V1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC										
	2	3.6	2	3.6	EDP11S003GN1210000	Yes	A ⁵	ED2	130	\$8,020	V1E (V1)
	3	5.0	3	5.0	EDP11S005GN1210000	Yes	A ⁵	ED2	130	\$8,136	V1E (V1)
	5	7.0	3	5.5	EDP11S007GN1210000	Yes	A ⁵	ED2	130	\$8,200	V1E (V1)
	7 1/2	10	5	10	EDP11S010GN1210000	Yes	A ⁵	ED2	130	\$8,276	V1E (V1)
	10	13.5	7 1/2	11	EDP11S013GN1210000	Yes	A ⁵	ED2	130	\$8,375	V1E (V1)
	10	17	10	13.5	EDP11S017GN1210000	Yes	B ⁵	ED2	150	\$8,867	V1E (V1)
	15	24	10	19	EDP11S024GN1210000	Yes	B ⁵	ED2	150	\$9,613	V1E (V1)
	20	31	15	25	EDP11S031GN1210000	Yes	B ⁵	ED2	150	\$10,483	V1E (V1)
	25	38	20	33	EDP11S038GN1210000	Yes	C ⁵	ED3	210	\$11,395	V1E (V1)
	30	45	25	38	EDP11S045GN1210000	Yes	C ⁵	ED3	210	\$12,669	V1E (V1)
	40	58.5	30	47	EDP11S058GN1210000	Yes	C ⁵	ED3	210	\$14,721	V1E (V1)
	50/60	70.5	40	61	EDP11S070GN1210000	Yes	D ⁵	ED4	360	\$15,424	V1E (V1)
	75	88	50	73	EDP11S088GN1210000	Yes	D ⁵	ED4	360	\$17,876	V1E (V1)
	75	105	75	88	EDP11S105GN1210000	No	E ⁶	ED5	490	\$21,308	V1E (V1)
	100/125	142	75	115	EDP11S142GN1210000	No	E ⁶	ED5	520	\$25,700	V1E (V1)
	150	180	100	142	EDP11S180GN1210000	No	E ⁶	ED5	560	\$32,281	V1E (V1)
	175	211	125	180	EDP11S211GN1210000	No	E ⁶	ED5	560	\$36,970	V1E (V1)
	200	242	150	211	EDP11E242GN1210000	No	F ⁶	ED7	980	\$53,334	V1E (V1)
	250	312	200	242	EDP11E312GN1210000	No	F ⁶	ED7	980	\$59,257	V1E (V1)
	300	370	250	312	EDP11E370GN1210000	No	F ⁶	ED7	1030	\$62,146	V1E (V1)
	400	477	300	370	EDP11E477GN1210000	No	F ⁶	ED7	1100	\$76,618	V1E (V1)
	450	515	400	477	EDP11E515GN1210000	No	G ⁶	ED9	1530	\$88,056	V1E (V1)
	500	601	450	515	EDP11E601GN1210000	No	G ⁶	ED9	1530	\$99,447	V1E (V1)
	600	720	500	560	EDP11E720GN1210000	No	G ⁷	ED9	1530	\$119,944	V1E (V1)

Notes:

- 1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.
 2) "HP" rating based on "average FLA values." Use as a guide only.
 3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.
 4) ED1-ED5 enclosures are non-ventilated. ED1-ED4 enclosures are wall-mounted (ED5 is free standing). ED6-ED10 enclosures are ventilated and floor-mounted.
 5) Maximum 45°C ambient temperature without derating.
 6) Maximum 40°C ambient temperature without derating.
 7) Maximum 35°C ambient temperature without derating.
 8) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.

For other technical data please refer to WEG product manual.



EDP11 Series

Engineered Drive Panel – NEMA 12 Enclosure (no Bypass) with HOA / Pot / TB

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Approx. Weight (lbs) ⁸	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–240 VAC										
	2	7.0	1 1/2	5.5	EDP11S007DN1201000	Yes	A ⁵	ED1	130	\$7,453	V1E (V1)
	3	10	2	8.0	EDP11S010DN1201000	Yes	A ⁵	ED1	130	\$7,519	V1E (V1)
	5	13	3	11	EDP11S013DN1201000	Yes	A ⁵	ED1	130	\$7,618	V1E (V1)
	5	16	5	13	EDP11S016DN1201000	Yes	A ⁵	ED1	150	\$7,886	V1E (V1)
	7 1/2	24	7 1/2	20	EDP11S024DN1201000	Yes	B ⁵	ED1	170	\$8,427	V1E (V1)
	10	28	10	24	EDP11S028DN1201000	Yes	B ⁵	ED1	170	\$9,171	V1E (V1)
	10	33.5	10	28	EDP11S033DN1201000	Yes	B ⁵	ED1	170	\$9,871	V1E (V1)
	15	45	15	36	EDP11S045DN1201000	Yes	C ⁵	ED2	210	\$10,977	V1E (V1)
	20	54	20	45	EDP11S054DN1201000	Yes	C ⁵	ED2	210	\$12,254	V1E (V1)
	25	70	20	56	EDP11S070DN1201000	Yes	C ⁵	ED2	290	\$12,925	V1E (V1)
	30	86	25	70	EDP11S086DN1201000	Yes	D ⁵	ED3	360	\$15,084	V1E (V1)
	40	105	30	86	EDP11S105DN1201000	Yes	D ⁵	ED3	480	\$17,927	V1E (V1)
	50	142	40	115	EDP11S142DN1201000	No	E ⁶	ED4	560	\$20,556	V1E (V1)
	60	180	50	142	EDP11S180DN1201000	No	E ⁶	ED4	580	\$25,879	V1E (V1)
	75	211	60	180	EDP11S211DN1201000	No	E ⁶	ED4	580	\$29,089	V1E (V1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC										
	2	3.6	2	3.6	EDP11S003GN1201000	Yes	A ⁵	ED1	130	\$7,273	V1E (V1)
	3	5.0	3	5.0	EDP11S005GN1201000	Yes	A ⁵	ED1	130	\$7,389	V1E (V1)
	5	7.0	3	5.5	EDP11S007GN1201000	Yes	A ⁵	ED1	130	\$7,453	V1E (V1)
	7 1/2	10	5	10	EDP11S010GN1201000	Yes	A ⁵	ED1	130	\$7,519	V1E (V1)
	10	13.5	7 1/2	11	EDP11S013GN1201000	Yes	A ⁵	ED1	130	\$7,618	V1E (V1)
	10	17	10	13.5	EDP11S017GN1201000	Yes	B ⁵	ED1	150	\$8,032	V1E (V1)
	15	24	10	19	EDP11S024GN1201000	Yes	B ⁵	ED1	150	\$8,584	V1E (V1)
	20	31	15	25	EDP11S031GN1201000	Yes	B ⁵	ED1	150	\$9,343	V1E (V1)
	25	38	20	33	EDP11S038GN1201000	Yes	C ⁵	ED2	210	\$10,056	V1E (V1)
	30	45	25	38	EDP11S045GN1201000	Yes	C ⁵	ED2	210	\$11,185	V1E (V1)
	40	58.5	30	47	EDP11S058GN1201000	Yes	C ⁵	ED2	210	\$12,789	V1E (V1)
	50/60	70.5	40	61	EDP11S070GN1201000	Yes	D ⁵	ED3	360	\$13,492	V1E (V1)
	75	88	50	73	EDP11S088GN1201000	Yes	D ⁵	ED3	360	\$15,751	V1E (V1)
	75	105	75	88	EDP11S105GN1201000	No	E ⁶	ED4	490	\$18,727	V1E (V1)
	100/125	142	75	115	EDP11S142GN1201000	No	E ⁶	ED4	520	\$21,478	V1E (V1)
	150	180	100	142	EDP11S180GN1201000	No	E ⁶	ED4	560	\$27,049	V1E (V1)
	175	211	125	180	EDP11S211GN1201000	No	E ⁶	ED4	560	\$30,408	V1E (V1)
	200	242	150	211	EDP11E242GN1201000	No	F ⁶	ED6	980	\$41,613	V1E (V1)
	250	312	200	242	EDP11E312GN1201000	No	F ⁶	ED6	980	\$45,972	V1E (V1)
	300	370	250	312	EDP11E370GN1201000	No	F ⁶	ED6	1030	\$48,601	V1E (V1)
	400	477	300	370	EDP11E477GN1201000	No	F ⁶	ED6	1100	\$55,443	V1E (V1)
	450	515	400	477	EDP11E515GN1201000	No	G ⁶	ED8	1530	\$66,881	V1E (V1)
	500	601	450	515	EDP11E601GN1201000	No	G ⁶	ED8	1530	\$72,733	V1E (V1)
	600	720	500	560	EDP11E720GN1201000	No	G ⁷	ED8	1530	\$89,414	V1E (V1)
	700	795	550	637	EDP11E795GN1201000	No	H ⁷	ED10	1700	\$110,008	V1E (V1)
	750	877	600	715	EDP11E877GN1201000	No	H ⁷	ED10	1700	\$117,158	V1E (V1)
	950	1062	750	855	EDP11E1062GN1201000	No	H ⁷	ED10	1850	\$136,978	V1E (V1)
1000	1141	800	943	EDP11E1141GN1201000	No	H ⁷	ED10	1850	\$148,433	V1E (V1)	

Notes:
1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.
2) "HP" rating based on "average FLA values." Use as a guide only.
3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.
4) ED1-ED5 enclosures are non-ventilated. ED1-ED4 enclosures are wall-mounted (ED5 is free standing). ED6-ED10 enclosures are ventilated and floor-mounted.
5) Maximum 45°C ambient temperature without derating.
6) Maximum 40°C ambient temperature without derating.
7) Maximum 35°C ambient temperature without derating.
8) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.
For other technical data please refer to WEG product manual.

Engineered Drive Panel – NEMA 12 Enclosure with Bypass and HOA / Pot / TB

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Approx. Weight (lbs) ⁸	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–240 VAC										
	2	7.0	1 1/2	5.5	EDP11S007DN1211000	Yes	A ⁵	ED2	130	\$8,963	V1E (V1)
	3	10	2	8.0	EDP11S010DN1211000	Yes	A ⁵	ED2	130	\$9,039	V1E (V1)
	5	13	3	11	EDP11S013DN1211000	Yes	A ⁵	ED2	130	\$9,138	V1E (V1)
	5	16	5	13	EDP11S016DN1211000	Yes	A ⁵	ED2	150	\$9,406	V1E (V1)
	7 1/2	24	7 1/2	20	EDP11S024DN1211000	Yes	B ⁵	ED2	170	\$10,025	V1E (V1)
	10	28	10	24	EDP11S028DN1211000	Yes	B ⁵	ED2	170	\$10,963	V1E (V1)
	10	33.5	10	28	EDP11S033DN1211000	Yes	B ⁵	ED2	170	\$11,774	V1E (V1)
	15	45	15	36	EDP11S045DN1211000	Yes	C ⁵	ED3	210	\$13,079	V1E (V1)
	20	54	20	45	EDP11S054DN1211000	Yes	C ⁵	ED3	210	\$14,501	V1E (V1)
	25	70	20	56	EDP11S070DN1211000	Yes	C ⁵	ED3	290	\$15,620	V1E (V1)
	30	86	25	70	EDP11S086DN1211000	Yes	D ⁵	ED4	360	\$17,779	V1E (V1)
	40	105	30	86	EDP11S105DN1211000	Yes	D ⁵	ED4	480	\$20,815	V1E (V1)
	50	142	40	115	EDP11S142DN1211000	No	E ⁶	ED5	560	\$25,541	V1E (V1)
	60	180	50	142	EDP11S180DN1211000	No	E ⁶	ED5	580	\$31,874	V1E (V1)
	75	211	60	180	EDP11S211DN1211000	No	E ⁶	ED5	580	\$36,414	V1E (V1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC										
	2	3.6	2	3.6	EDP11S003GN1211000	Yes	A ⁵	ED2	130	\$8,783	V1E (V1)
	3	5.0	3	5.0	EDP11S005GN1211000	Yes	A ⁵	ED2	130	\$8,899	V1E (V1)
	5	7.0	3	5.5	EDP11S007GN1211000	Yes	A ⁵	ED2	130	\$8,963	V1E (V1)
	7 1/2	10	5	10	EDP11S010GN1211000	Yes	A ⁵	ED2	130	\$9,039	V1E (V1)
	10	13.5	7 1/2	11	EDP11S013GN1211000	Yes	A ⁵	ED2	130	\$9,138	V1E (V1)
	10	17	10	13.5	EDP11S017GN1211000	Yes	B ⁵	ED2	150	\$9,630	V1E (V1)
	15	24	10	19	EDP11S024GN1211000	Yes	B ⁵	ED2	150	\$10,376	V1E (V1)
	20	31	15	25	EDP11S031GN1211000	Yes	B ⁵	ED2	150	\$11,246	V1E (V1)
	25	38	20	33	EDP11S038GN1211000	Yes	C ⁵	ED3	210	\$12,158	V1E (V1)
	30	45	25	38	EDP11S045GN1211000	Yes	C ⁵	ED3	210	\$13,432	V1E (V1)
	40	58.5	30	47	EDP11S058GN1211000	Yes	C ⁵	ED3	210	\$15,484	V1E (V1)
	50/60	70.5	40	61	EDP11S070GN1211000	Yes	D ⁵	ED4	360	\$16,187	V1E (V1)
	75	88	50	73	EDP11S088GN1211000	Yes	D ⁵	ED4	360	\$18,639	V1E (V1)
	75	105	75	88	EDP11S105GN1211000	No	E ⁶	ED5	490	\$22,071	V1E (V1)
	100/125	142	75	115	EDP11S142GN1211000	No	E ⁶	ED5	520	\$26,463	V1E (V1)
	150	180	100	142	EDP11S180GN1211000	No	E ⁶	ED5	560	\$33,044	V1E (V1)
	175	211	125	180	EDP11S211GN1211000	No	E ⁶	ED5	560	\$37,733	V1E (V1)
	200	242	150	211	EDP11E242GN1211000	No	F ⁶	ED7	980	\$54,097	V1E (V1)
	250	312	200	242	EDP11E312GN1211000	No	F ⁶	ED7	980	\$60,115	V1E (V1)
	300	370	250	312	EDP11E370GN1211000	No	F ⁶	ED7	1030	\$63,004	V1E (V1)
	400	477	300	370	EDP11E477GN1211000	No	F ⁶	ED7	1100	\$77,476	V1E (V1)
	450	515	400	477	EDP11E515GN1211000	No	G ⁶	ED9	1530	\$88,914	V1E (V1)
	500	601	450	515	EDP11E601GN1211000	No	G ⁶	ED9	1530	\$100,305	V1E (V1)
	600	720	500	560	EDP11E720GN1211000	No	G ⁷	ED9	1530	\$120,802	V1E (V1)

Notes:

1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) ED1-ED5 enclosures are non-ventilated. ED1-ED4 enclosures are wall-mounted (ED5 is free standing). ED6-ED10 enclosures are ventilated and floor-mounted.

5) Maximum 45°C ambient temperature without derating.

6) Maximum 40°C ambient temperature without derating.

7) Maximum 35°C ambient temperature without derating.

8) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.

For other technical data please refer to WEG product manual.

Data is subject to change without notice.



EDP11 Series

Engineered Drive Panel – NEMA 3R Enclosure (no Bypass)

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Approx. Weight (lbs) ⁸	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–240 VAC										
	2	7.0	1 1/2	5.5	EDP11S007DN3R	Yes	A ⁵	ED1	130	\$8,521	V1E (V1)
	3	10	2	8.0	EDP11S010DN3R	Yes	A ⁵	ED1	130	\$8,587	V1E (V1)
	5	13	3	11	EDP11S013DN3R	Yes	A ⁵	ED1	130	\$8,686	V1E (V1)
	5	16	5	13	EDP11S016DN3R	Yes	A ⁵	ED1	150	\$8,918	V1E (V1)
	7 1/2	24	7 1/2	20	EDP11S024DN3R	Yes	B ⁵	ED1	170	\$9,459	V1E (V1)
	10	28	10	24	EDP11S028DN3R	Yes	B ⁵	ED1	170	\$10,202	V1E (V1)
	10	33.5	10	28	EDP11S033DN3R	Yes	B ⁵	ED1	170	\$10,902	V1E (V1)
	15	45	15	36	EDP11S045DN3R	Yes	C ⁵	ED2	210	\$12,122	V1E (V1)
	20	54	20	45	EDP11S054DN3R	Yes	C ⁵	ED2	210	\$13,400	V1E (V1)
	25	70	20	56	EDP11S070DN3R	Yes	C ⁵	ED2	290	\$14,162	V1E (V1)
	30	86	25	70	EDP11S086DN3R	Yes	D ⁵	ED3	360	\$16,320	V1E (V1)
	40	105	30	86	EDP11S105DN3R	Yes	D ⁵	ED3	480	\$19,338	V1E (V1)
	50	142	40	115	EDP11S142DN3R	No	E ⁶	ED4	560	\$21,967	V1E (V1)
	60	180	50	142	EDP11S180DN3R	No	E ⁶	ED4	580	\$27,290	V1E (V1)
	75	211	60	180	EDP11S211DN3R	No	E ⁶	ED4	580	\$30,499	V1E (V1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC										
	2	3.6	2	3.6	EDP11S003GN3R	Yes	A ⁵	ED1	130	\$8,341	V1E (V1)
	3	5.0	3	5.0	EDP11S005GN3R	Yes	A ⁵	ED1	130	\$8,457	V1E (V1)
	5	7.0	3	5.5	EDP11S007GN3R	Yes	A ⁵	ED1	130	\$8,521	V1E (V1)
	7 1/2	10	5	10	EDP11S010GN3R	Yes	A ⁵	ED1	130	\$8,587	V1E (V1)
	10	13.5	7 1/2	11	EDP11S013GN3R	Yes	A ⁵	ED1	130	\$8,686	V1E (V1)
	10	17	10	13.5	EDP11S017GN3R	Yes	B ⁵	ED1	150	\$9,100	V1E (V1)
	15	24	10	19	EDP11S024GN3R	Yes	B ⁵	ED1	150	\$9,652	V1E (V1)
	20	31	15	25	EDP11S031GN3R	Yes	B ⁵	ED1	150	\$10,411	V1E (V1)
	25	38	20	33	EDP11S038GN3R	Yes	C ⁵	ED2	210	\$11,125	V1E (V1)
	30	45	25	38	EDP11S045GN3R	Yes	C ⁵	ED2	210	\$12,369	V1E (V1)
	40	58.5	30	47	EDP11S058GN3R	Yes	C ⁵	ED2	210	\$13,673	V1E (V1)
	50/60	70.5	40	61	EDP11S070GN3R	Yes	D ⁵	ED3	360	\$14,451	V1E (V1)
	75	88	50	73	EDP11S088GN3R	Yes	D ⁵	ED3	360	\$16,653	V1E (V1)
	75	105	75	88	EDP11S105GN3R	No	E ⁶	ED4	490	\$19,733	V1E (V1)
	100/125	142	75	115	EDP11S142GN3R	No	E ⁶	ED4	520	\$22,415	V1E (V1)
	150	180	100	142	EDP11S180GN3R	No	E ⁶	ED4	560	\$27,847	V1E (V1)
	175	211	125	180	EDP11S211GN3R	No	E ⁶	ED4	560	\$31,122	V1E (V1)
	200	242	150	211	EDP11E242GN3R	No	F ⁶	ED6	980	\$45,693	V1E (V1)
	250	312	200	242	EDP11E312GN3R	No	F ⁶	ED6	980	\$50,053	V1E (V1)
	300	370	250	312	EDP11E370GN3R	No	F ⁶	ED6	1030	\$52,682	V1E (V1)
	400	477	300	370	EDP11E477GN3R	No	F ⁶	ED6	1100	\$59,523	V1E (V1)
	450	515	400	477	EDP11E515GN3R	No	G ⁶	ED8	1530	\$71,976	V1E (V1)
	500	601	450	515	EDP11E601GN3R	No	G ⁶	ED8	1530	\$77,828	V1E (V1)
	600	720	500	560	EDP11E720GN3R	No	G ⁷	ED8	1530	\$94,509	V1E (V1)
	700	795	550	637	EDP11E795GN3R	No	H ⁷	ED10	1700	\$116,480	V1E (V1)
	750	877	600	715	EDP11E877GN3R	No	H ⁷	ED10	1700	\$123,630	V1E (V1)
	950	1062	750	855	EDP11E1062GN3R	No	H ⁷	ED10	1850	\$142,890	V1E (V1)
	1000	1141	800	943	EDP11E1141GN3R	No	H ⁷	ED10	1850	\$154,345	V1E (V1)

Notes:
1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.
2) "HP" rating based on "average FLA values." Use as a guide only.
3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.
4) ED1-ED5 enclosures are non-ventilated. ED1-ED4 enclosures are wall-mounted (ED5 is free standing). ED6-ED10 enclosures are ventilated and floor-mounted.
5) Maximum 45°C ambient temperature without derating.
6) Maximum 40°C ambient temperature without derating.
7) Maximum 35°C ambient temperature without derating.
8) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.
For other technical data please refer to WEG product manual.

Engineered Drive Panel – NEMA 3R Enclosure with Bypass

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Approx. Weight (lbs) ⁸	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–240 VAC										
	2	7.0	1 1/2	5.5	EDP11S007DN3R10000	Yes	A ⁵	ED2	130	\$10,031	V1E (V1)
	3	10	2	8.0	EDP11S010DN3R10000	Yes	A ⁵	ED2	130	\$10,107	V1E (V1)
	5	13	3	11	EDP11S013DN3R10000	Yes	A ⁵	ED2	130	\$10,206	V1E (V1)
	5	16	5	13	EDP11S016DN3R10000	Yes	A ⁵	ED2	150	\$10,438	V1E (V1)
	7 1/2	24	7 1/2	20	EDP11S024DN3R10000	Yes	B ⁵	ED2	170	\$11,057	V1E (V1)
	10	28	10	24	EDP11S028DN3R10000	Yes	B ⁵	ED2	170	\$11,994	V1E (V1)
	10	33.5	10	28	EDP11S033DN3R10000	Yes	B ⁵	ED2	170	\$12,805	V1E (V1)
	15	45	15	36	EDP11S045DN3R10000	Yes	C ⁵	ED3	210	\$14,224	V1E (V1)
	20	54	20	45	EDP11S054DN3R10000	Yes	C ⁵	ED3	210	\$15,647	V1E (V1)
	25	70	20	56	EDP11S070DN3R10000	Yes	C ⁵	ED3	290	\$16,857	V1E (V1)
	30	86	25	70	EDP11S086DN3R10000	Yes	D ⁵	ED4	360	\$19,015	V1E (V1)
	40	105	30	86	EDP11S105DN3R10000	Yes	D ⁵	ED4	480	\$22,226	V1E (V1)
	50	142	40	115	EDP11S142DN3R10000	No	E ⁶	ED5	560	\$26,952	V1E (V1)
	60	180	50	142	EDP11S180DN3R10000	No	E ⁶	ED5	580	\$33,285	V1E (V1)
	75	211	60	180	EDP11S211DN3R10000	No	E ⁶	ED5	580	\$37,824	V1E (V1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC										
	2	3.6	2	3.6	EDP11S003GN3R10000	Yes	A ⁵	ED2	130	\$9,851	V1E (V1)
	3	5.0	3	5.0	EDP11S005GN3R10000	Yes	A ⁵	ED2	130	\$9,967	V1E (V1)
	5	7.0	3	5.5	EDP11S007GN3R10000	Yes	A ⁵	ED2	130	\$10,031	V1E (V1)
	7 1/2	10	5	10	EDP11S010GN3R10000	Yes	A ⁵	ED2	130	\$10,107	V1E (V1)
	10	13.5	7 1/2	11	EDP11S013GN3R10000	Yes	A ⁵	ED2	130	\$10,206	V1E (V1)
	10	17	10	13.5	EDP11S017GN3R10000	Yes	B ⁵	ED2	150	\$10,698	V1E (V1)
	15	24	10	19	EDP11S024GN3R10000	Yes	B ⁵	ED2	150	\$11,444	V1E (V1)
	20	31	15	25	EDP11S031GN3R10000	Yes	B ⁵	ED2	150	\$12,314	V1E (V1)
	25	38	20	33	EDP11S038GN3R10000	Yes	C ⁵	ED3	210	\$13,227	V1E (V1)
	30	45	25	38	EDP11S045GN3R10000	Yes	C ⁵	ED3	210	\$14,616	V1E (V1)
	40	58.5	30	47	EDP11S058GN3R10000	Yes	C ⁵	ED3	210	\$16,368	V1E (V1)
	50/60	70.5	40	61	EDP11S070GN3R10000	Yes	D ⁵	ED4	360	\$17,146	V1E (V1)
	75	88	50	73	EDP11S088GN3R10000	Yes	D ⁵	ED4	360	\$19,541	V1E (V1)
	75	105	75	88	EDP11S105GN3R10000	No	E ⁶	ED5	490	\$23,077	V1E (V1)
	100/125	142	75	115	EDP11S142GN3R10000	No	E ⁶	ED5	520	\$27,400	V1E (V1)
	150	180	100	142	EDP11S180GN3R10000	No	E ⁶	ED5	560	\$33,842	V1E (V1)
	175	211	125	180	EDP11S211GN3R10000	No	E ⁶	ED5	560	\$38,447	V1E (V1)
	200	242	150	211	EDP11E242GN3R10000	No	F ⁶	ED7	980	\$58,272	V1E (V1)
	250	312	200	242	EDP11E312GN3R10000	No	F ⁶	ED7	980	\$64,196	V1E (V1)
	300	370	250	312	EDP11E370GN3R10000	No	F ⁶	ED7	1030	\$67,085	V1E (V1)
	400	477	300	370	EDP11E477GN3R10000	No	F ⁶	ED7	1100	\$81,556	V1E (V1)
	450	515	400	477	EDP11E515GN3R10000	No	G ⁶	ED9	1530	\$94,009	V1E (V1)
	500	601	450	515	EDP11E601GN3R10000	No	G ⁶	ED9	1530	\$105,400	V1E (V1)
	600	720	500	560	EDP11E720GN3R10000	No	G ⁷	ED9	1530	\$125,897	V1E (V1)

Notes:

1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) ED1-ED5 enclosures are non-ventilated. ED1-ED4 enclosures are wall-mounted (ED5 is free standing). ED6-ED10 enclosures are ventilated and floor-mounted.

5) Maximum 45°C ambient temperature without derating.

6) Maximum 40°C ambient temperature without derating.

7) Maximum 35°C ambient temperature without derating.

8) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.

For other technical data please refer to WEG product manual.

EDP11 Series

Engineered Drive Panel – NEMA 3R Enclosure (no Bypass) with HOA / Pot / TB

Panels highlighted in **GREEN** represent panels that are normally kept in stock.

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Approx. Weight (lbs) ⁸	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–240 VAC										
	2	7.0	1 1/2	5.5	EDP11S007DN3R01000	Yes	A ⁵	ED1	130	\$9,284	V1E (V1)
	3	10	2	8.0	EDP11S010DN3R01000	Yes	A ⁵	ED1	130	\$9,350	V1E (V1)
	5	13	3	11	EDP11S013DN3R01000	Yes	A ⁵	ED1	130	\$9,449	V1E (V1)
	5	16	5	13	EDP11S016DN3R01000	Yes	A ⁵	ED1	150	\$9,681	V1E (V1)
	7 1/2	24	7 1/2	20	EDP11S024DN3R01000	Yes	B ⁵	ED1	170	\$10,222	V1E (V1)
	10	28	10	24	EDP11S028DN3R01000	Yes	B ⁵	ED1	170	\$10,965	V1E (V1)
	10	33.5	10	28	EDP11S033DN3R01000	Yes	B ⁵	ED1	170	\$11,665	V1E (V1)
	15	45	15	36	EDP11S045DN3R01000	Yes	C ⁵	ED2	210	\$12,885	V1E (V1)
	20	54	20	45	EDP11S054DN3R01000	Yes	C ⁵	ED2	210	\$14,163	V1E (V1)
	25	70	20	56	EDP11S070DN3R01000	Yes	C ⁵	ED2	290	\$14,925	V1E (V1)
	30	86	25	70	EDP11S086DN3R01000	Yes	D ⁵	ED3	360	\$17,083	V1E (V1)
	40	105	30	86	EDP11S105DN3R01000	Yes	D ⁵	ED3	480	\$20,101	V1E (V1)
	50	142	40	115	EDP11S142DN3R01000	No	E ⁶	ED4	560	\$22,730	V1E (V1)
	60	180	50	142	EDP11S180DN3R01000	No	E ⁶	ED4	580	\$28,053	V1E (V1)
	75	211	60	180	EDP11S211DN3R01000	No	E ⁶	ED4	580	\$31,262	V1E (V1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC										
	2	3.6	2	3.6	EDP11S003GN3R01000	Yes	A ⁵	ED1	130	\$9,104	V1E (V1)
	3	5.0	3	5.0	EDP11S005GN3R01000	Yes	A ⁵	ED1	130	\$9,220	V1E (V1)
	5	7.0	3	5.5	EDP11S007GN3R01000	Yes	A ⁵	ED1	130	\$9,284	V1E (V1)
	7 1/2	10	5	10	EDP11S010GN3R01000	Yes	A ⁵	ED1	130	\$9,350	V1E (V1)
	10	13.5	7 1/2	11	EDP11S013GN3R01000	Yes	A ⁵	ED1	130	\$9,449	V1E (V1)
	10	17	10	13.5	EDP11S017GN3R01000	Yes	B ⁵	ED1	150	\$9,863	V1E (V1)
	15	24	10	19	EDP11S024GN3R01000	Yes	B ⁵	ED1	150	\$10,415	V1E (V1)
	20	31	15	25	EDP11S031GN3R01000	Yes	B ⁵	ED1	150	\$11,174	V1E (V1)
	25	38	20	33	EDP11S038GN3R01000	Yes	C ⁵	ED2	210	\$11,888	V1E (V1)
	30	45	25	38	EDP11S045GN3R01000	Yes	C ⁵	ED2	210	\$13,132	V1E (V1)
	40	58.5	30	47	EDP11S058GN3R01000	Yes	C ⁵	ED2	210	\$14,436	V1E (V1)
	50/60	70.5	40	61	EDP11S070GN3R01000	Yes	D ⁵	ED3	360	\$15,214	V1E (V1)
	75	88	50	73	EDP11S088GN3R01000	Yes	D ⁵	ED3	360	\$17,416	V1E (V1)
	75	105	75	88	EDP11S105GN3R01000	No	E ⁶	ED4	490	\$20,496	V1E (V1)
	100/125	142	75	115	EDP11S142GN3R01000	No	E ⁶	ED4	520	\$23,178	V1E (V1)
	150	180	100	142	EDP11S180GN3R01000	No	E ⁶	ED4	560	\$28,610	V1E (V1)
	175	211	125	180	EDP11S211GN3R01000	No	E ⁶	ED4	560	\$31,885	V1E (V1)
	200	242	150	211	EDP11E242GN3R01000	No	F ⁶	ED6	980	\$46,456	V1E (V1)
	250	312	200	242	EDP11E312GN3R01000	No	F ⁶	ED6	980	\$50,911	V1E (V1)
	300	370	250	312	EDP11E370GN3R01000	No	F ⁶	ED6	1030	\$53,540	V1E (V1)
	400	477	300	370	EDP11E477GN3R01000	No	F ⁶	ED6	1100	\$60,381	V1E (V1)
	450	515	400	477	EDP11E515GN3R01000	No	G ⁶	ED8	1530	\$72,834	V1E (V1)
	500	601	450	515	EDP11E601GN3R01000	No	G ⁶	ED8	1530	\$78,686	V1E (V1)
	600	720	500	560	EDP11E720GN3R01000	No	G ⁷	ED8	1530	\$95,367	V1E (V1)
	700	795	550	637	EDP11E795GN3R01000	No	H ⁷	ED10	1700	\$117,338	V1E (V1)
	750	877	600	715	EDP11E877GN3R01000	No	H ⁷	ED10	1700	\$124,488	V1E (V1)
	950	1062	750	855	EDP11E1062GN3R01000	No	H ⁷	ED10	1850	\$143,748	V1E (V1)
	1000	1141	800	943	EDP11E1141GN3R01000	No	H ⁷	ED10	1850	\$155,203	V1E (V1)

Notes:

1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) ED1-ED5 enclosures are non-ventilated. ED1-ED4 enclosures are wall-mounted (ED5 is free standing). ED6-ED10 enclosures are ventilated and floor-mounted.

5) Maximum 45°C ambient temperature without derating.

6) Maximum 40°C ambient temperature without derating.

7) Maximum 35°C ambient temperature without derating.

8) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.

For other technical data please refer to WEG product manual.

Engineered Drive Panel – NEMA 3R Enclosure with Bypass and HOA / Pot / TB

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Approx. Weight (lbs) ⁸	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³							
230 VAC	Input Power Supply: Three-Phase 220–240 VAC										
	2	7.0	1 1/2	5.5	EDP11S007DN3R11000	Yes	A ⁵	ED2	130	\$10,794	V1E (V1)
	3	10	2	8.0	EDP11S010DN3R11000	Yes	A ⁵	ED2	130	\$10,870	V1E (V1)
	5	13	3	11	EDP11S013DN3R11000	Yes	A ⁵	ED2	130	\$10,969	V1E (V1)
	5	16	5	13	EDP11S016DN3R11000	Yes	A ⁵	ED2	150	\$11,201	V1E (V1)
	7 1/2	24	7 1/2	20	EDP11S024DN3R11000	Yes	B ⁵	ED2	170	\$11,820	V1E (V1)
	10	28	10	24	EDP11S028DN3R11000	Yes	B ⁵	ED2	170	\$12,757	V1E (V1)
	10	33.5	10	28	EDP11S033DN3R11000	Yes	B ⁵	ED2	170	\$13,568	V1E (V1)
	15	45	15	36	EDP11S045DN3R11000	Yes	C ⁵	ED3	210	\$14,987	V1E (V1)
	20	54	20	45	EDP11S054DN3R11000	Yes	C ⁵	ED3	210	\$16,410	V1E (V1)
	25	70	20	56	EDP11S070DN3R11000	Yes	C ⁵	ED3	290	\$17,620	V1E (V1)
	30	86	25	70	EDP11S086DN3R11000	Yes	D ⁵	ED4	360	\$19,778	V1E (V1)
	40	105	30	86	EDP11S105DN3R11000	Yes	D ⁵	ED4	480	\$22,989	V1E (V1)
	50	142	40	115	EDP11S142DN3R11000	No	E ⁶	ED5	560	\$27,715	V1E (V1)
	60	180	50	142	EDP11S180DN3R11000	No	E ⁶	ED5	580	\$34,048	V1E (V1)
	75	211	60	180	EDP11S211DN3R11000	No	E ⁶	ED5	580	\$38,587	V1E (V1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC										
	2	3.6	2	3.6	EDP11S003GN3R11000	Yes	A ⁵	ED2	130	\$10,614	V1E (V1)
	3	5.0	3	5.0	EDP11S005GN3R11000	Yes	A ⁵	ED2	130	\$10,730	V1E (V1)
	5	7.0	3	5.5	EDP11S007GN3R11000	Yes	A ⁵	ED2	130	\$10,794	V1E (V1)
	7 1/2	10	5	10	EDP11S010GN3R11000	Yes	A ⁵	ED2	130	\$10,870	V1E (V1)
	10	13.5	7 1/2	11	EDP11S013GN3R11000	Yes	A ⁵	ED2	130	\$10,969	V1E (V1)
	10	17	10	13.5	EDP11S017GN3R11000	Yes	B ⁵	ED2	150	\$11,461	V1E (V1)
	15	24	10	19	EDP11S024GN3R11000	Yes	B ⁵	ED2	150	\$12,207	V1E (V1)
	20	31	15	25	EDP11S031GN3R11000	Yes	B ⁵	ED2	150	\$13,077	V1E (V1)
	25	38	20	33	EDP11S038GN3R11000	Yes	C ⁵	ED3	210	\$13,873	V1E (V1)
	30	45	25	38	EDP11S045GN3R11000	Yes	C ⁵	ED3	210	\$15,233	V1E (V1)
	40	58.5	30	47	EDP11S058GN3R11000	Yes	C ⁵	ED3	210	\$16,683	V1E (V1)
	50/60	70.5	40	61	EDP11S070GN3R11000	Yes	D ⁵	ED4	360	\$17,909	V1E (V1)
	75	88	50	73	EDP11S088GN3R11000	Yes	D ⁵	ED4	360	\$20,304	V1E (V1)
	75	105	75	88	EDP11S105GN3R11000	No	E ⁶	ED5	490	\$23,840	V1E (V1)
	100/125	142	75	115	EDP11S142GN3R11000	No	E ⁶	ED5	520	\$28,163	V1E (V1)
	150	180	100	142	EDP11S180GN3R11000	No	E ⁶	ED5	560	\$34,605	V1E (V1)
	175	211	125	180	EDP11S211GN3R11000	No	E ⁶	ED5	560	\$39,210	V1E (V1)
	200	242	150	211	EDP11E242GN3R11000	No	F ⁶	ED7	980	\$59,035	V1E (V1)
	250	312	200	242	EDP11E312GN3R11000	No	F ⁶	ED7	980	\$65,054	V1E (V1)
	300	370	250	312	EDP11E370GN3R11000	No	F ⁶	ED7	1030	\$67,943	V1E (V1)
	400	477	300	370	EDP11E477GN3R11000	No	F ⁶	ED7	1100	\$82,414	V1E (V1)
	450	515	400	477	EDP11E515GN3R11000	No	G ⁶	ED9	1530	\$94,867	V1E (V1)
	500	601	450	515	EDP11E601GN3R11000	No	G ⁶	ED9	1530	\$106,258	V1E (V1)
	600	720	500	560	EDP11E720GN3R11000	No	G ⁷	ED9	1530	\$126,755	V1E (V1)

Notes:

1) CT (Constant Torque): 150% overload for 60 seconds; VT (Variable Torque, Quadratic Load): 110% overload for 60 seconds.

2) "HP" rating based on "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) ED1-ED5 enclosures are non-ventilated. ED1-ED4 enclosures are wall-mounted (ED5 is free standing). ED6-ED10 enclosures are ventilated and floor-mounted.

5) Maximum 45°C ambient temperature without derating.

6) Maximum 40°C ambient temperature without derating.

7) Maximum 35°C ambient temperature without derating.

8) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.

For other technical data please refer to WEG product manual.

Variable Frequency Drives

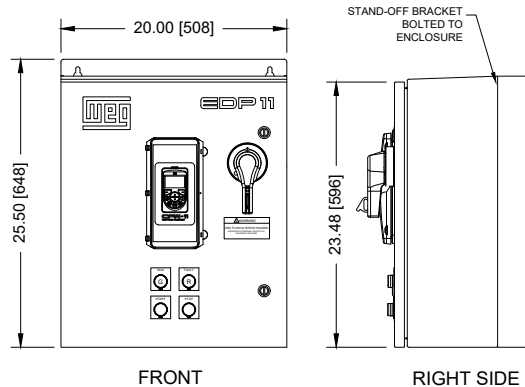
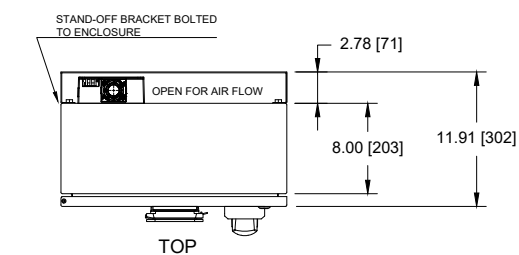


EDP11 Series

Dimensions – Inch [mm]

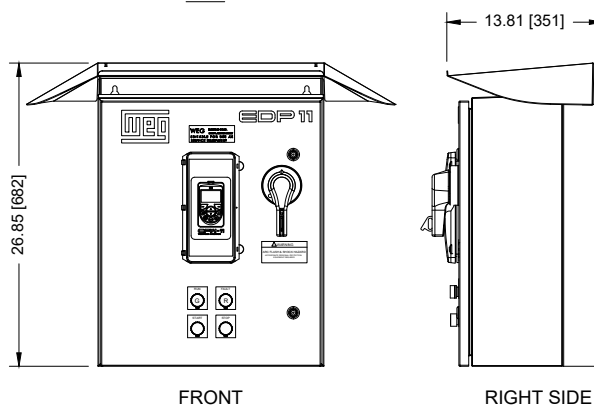
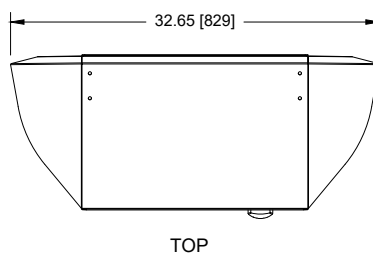
Frame Size ED1, NEMA Type 12

Enclosure for size A and B drives w/o Bypass



Frame Size ED1, NEMA Type 3R

Enclosure for size A and B drives w/o Bypass



NEMA Type 12 Enclosure

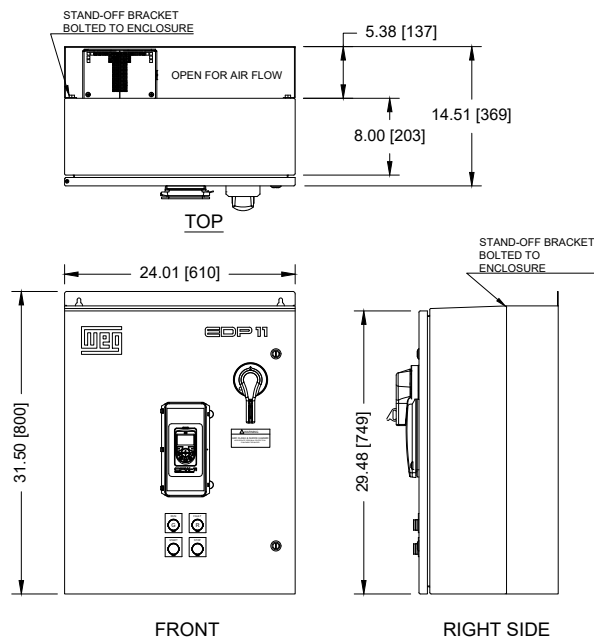


NEMA Type 3R Enclosure

Dimensions – Inch [mm]

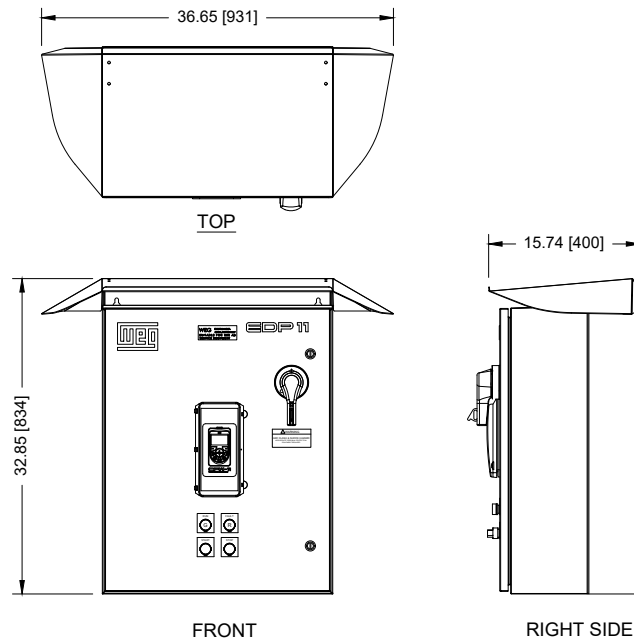
Frame Size ED2, NEMA Type 12

Enclosure for size C drives without Bypass and size A-B drives with Bypass



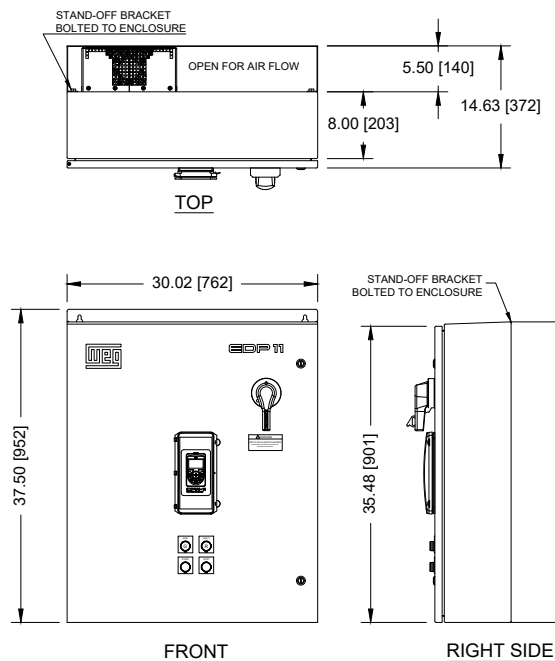
Frame Size ED2 Type 3R

Enclosure for size C drives without Bypass and size A-B drives with bypass



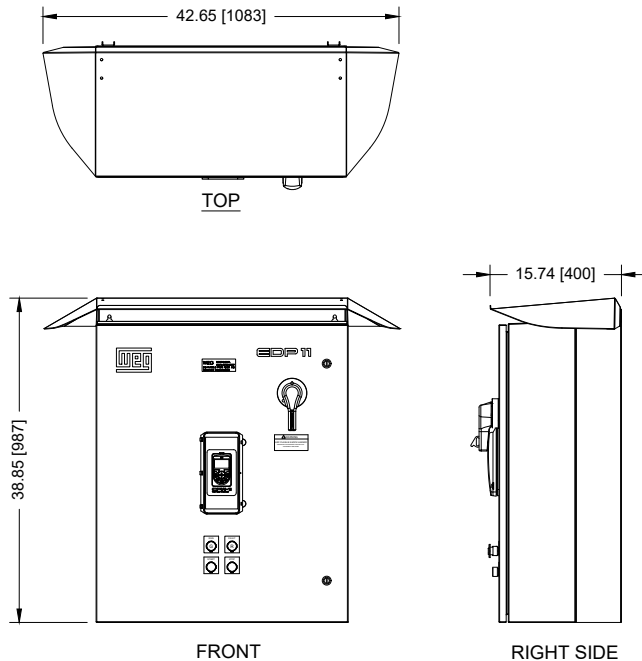
Frame Size ED3, NEMA Type 12

Enclosure for size D drives without Bypass and size C drives with Bypass



Frame Size ED3, NEMA Type 3R

Enclosure for size D drives without Bypass and size C drives with Bypass



Variable Frequency Drives

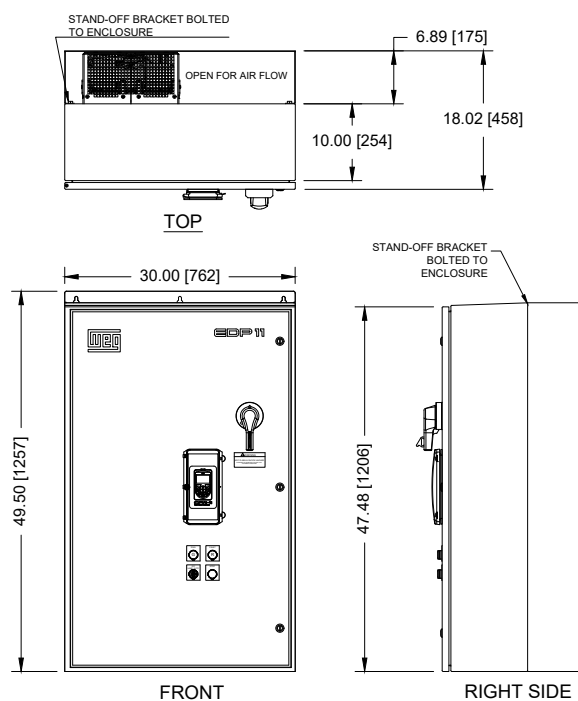


EDP11 Series

Dimensions – Inch [mm]

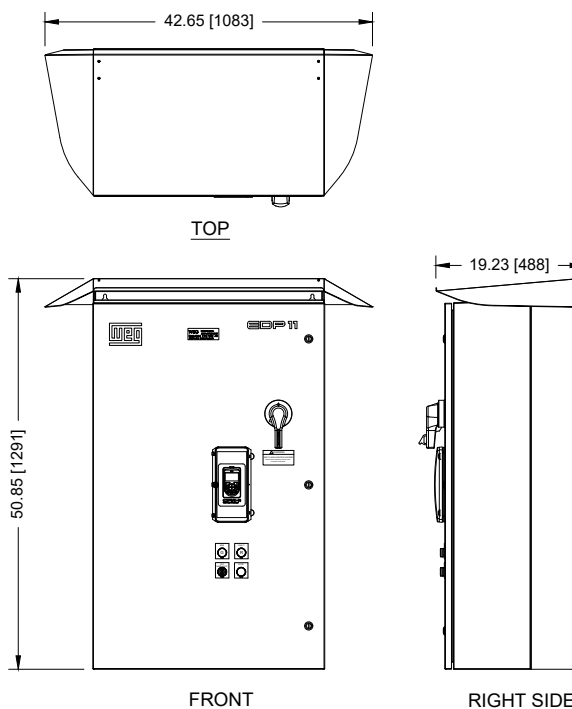
Frame Size ED4, NEMA Type 12

Enclosure for size E drives without Bypass and size D drives with Bypass



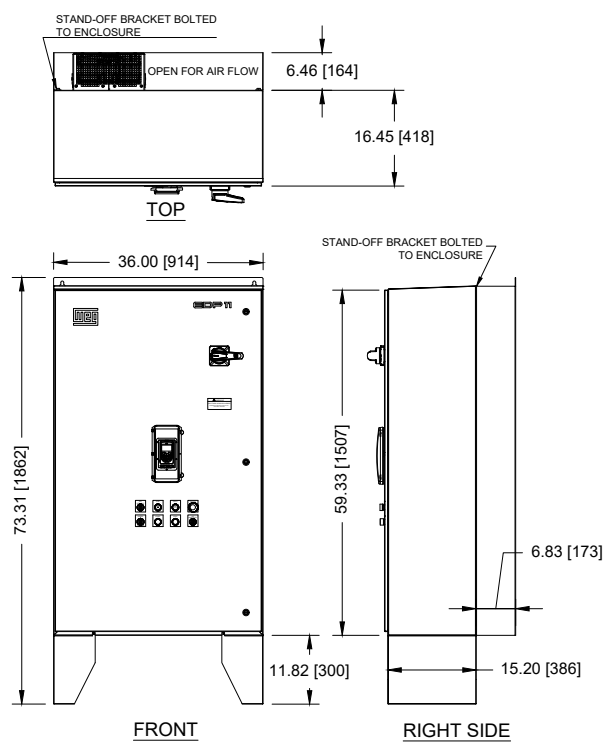
Frame Size ED4, NEMA Type 3R

Enclosure for size E drives without Bypass and size D drives with Bypass



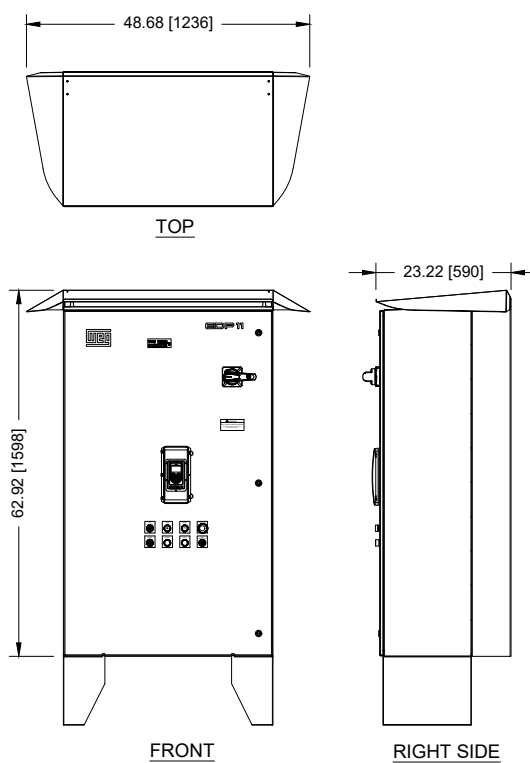
Frame Size ED5, NEMA Type 12

Enclosure for size E drives equipped with Bypass



Frame Size ED5, NEMA Type 3R

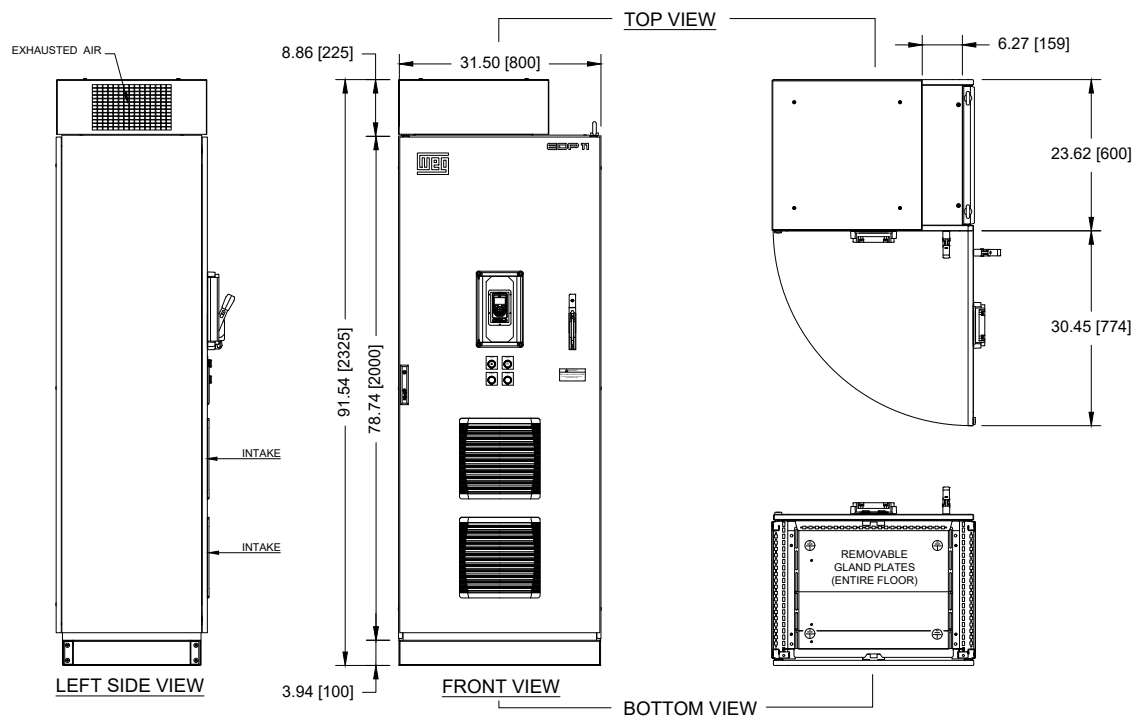
Enclosure for size E drives equipped with Bypass



Dimensions – Inch [mm]

Frame Size ED6

Enclosure for size F drives w/o Bypass



NEMA Type 3R Enclosure



NEMA Type 12 Enclosure

Variable Frequency Drives

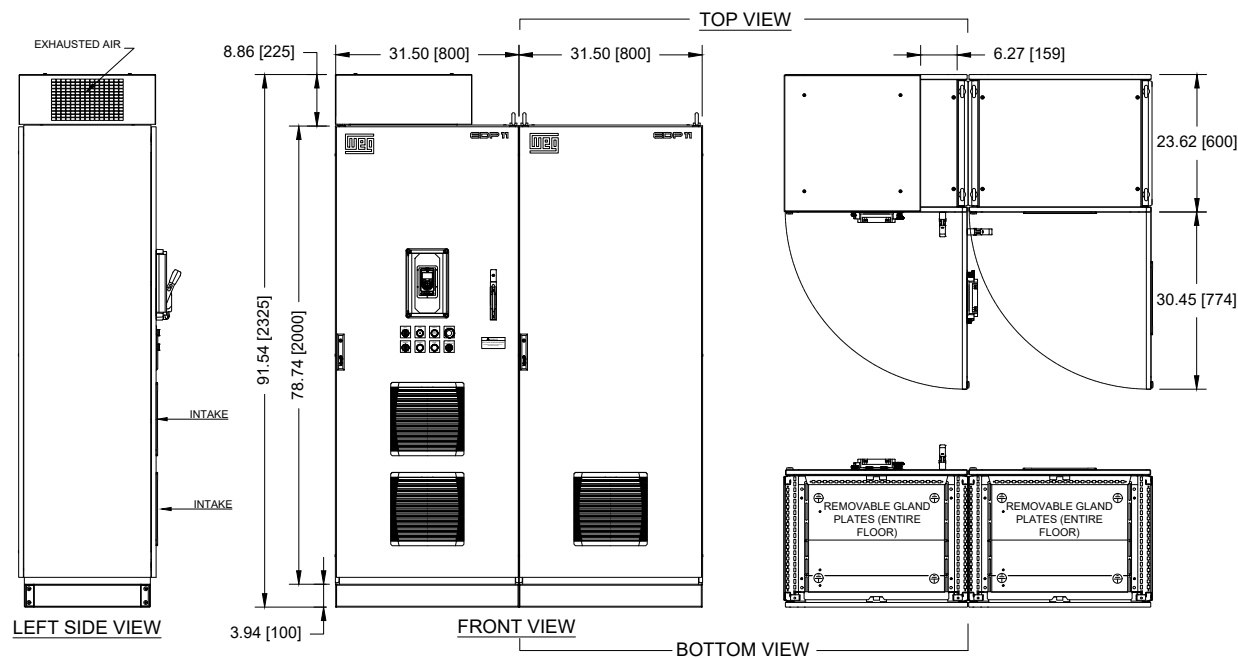


EDP11 Series

Dimensions – Inch [mm]

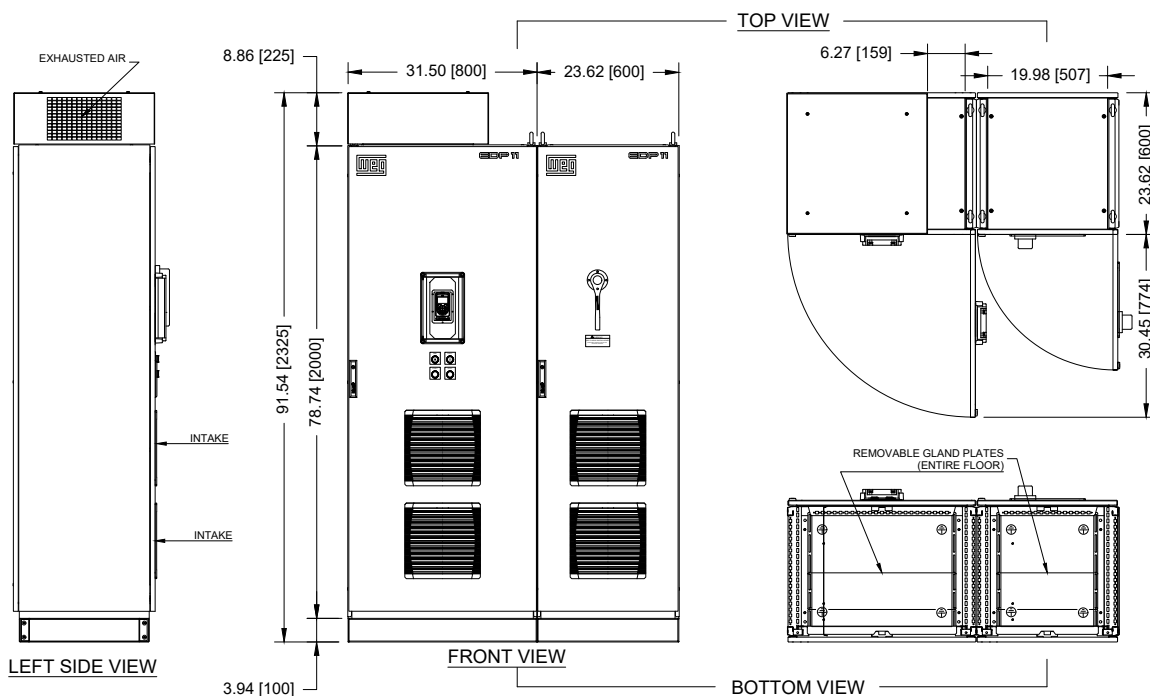
Frame Size ED7

Enclosure for size F drives equipped with Bypass



Frame Size ED8

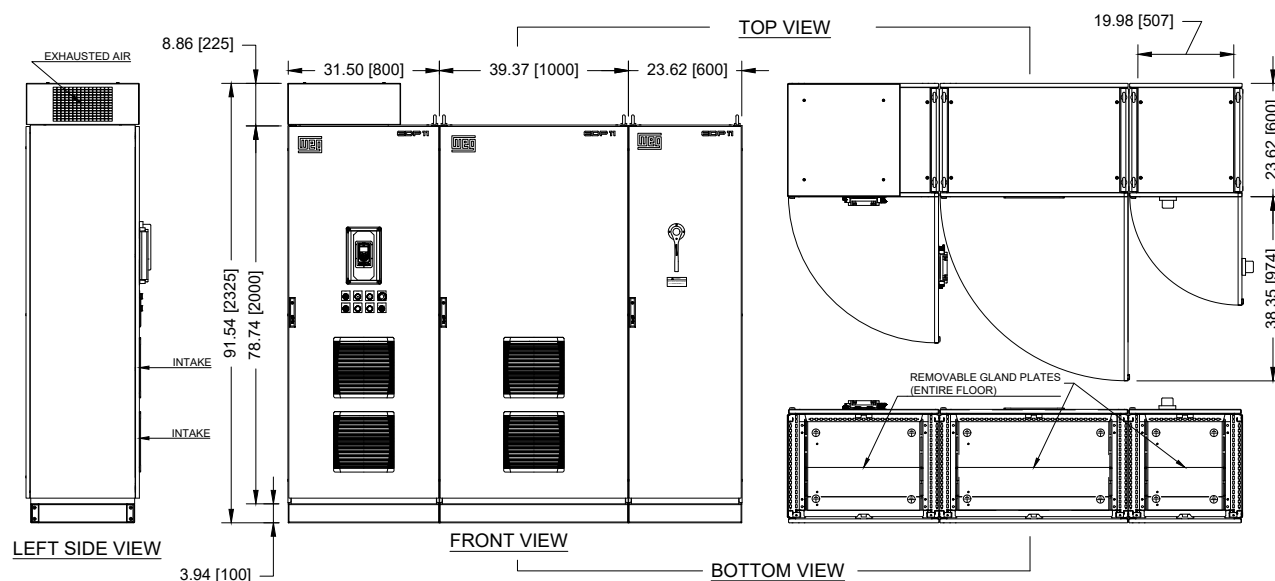
Enclosure for size G drives w/o Bypass



Dimensions – Inch [mm]

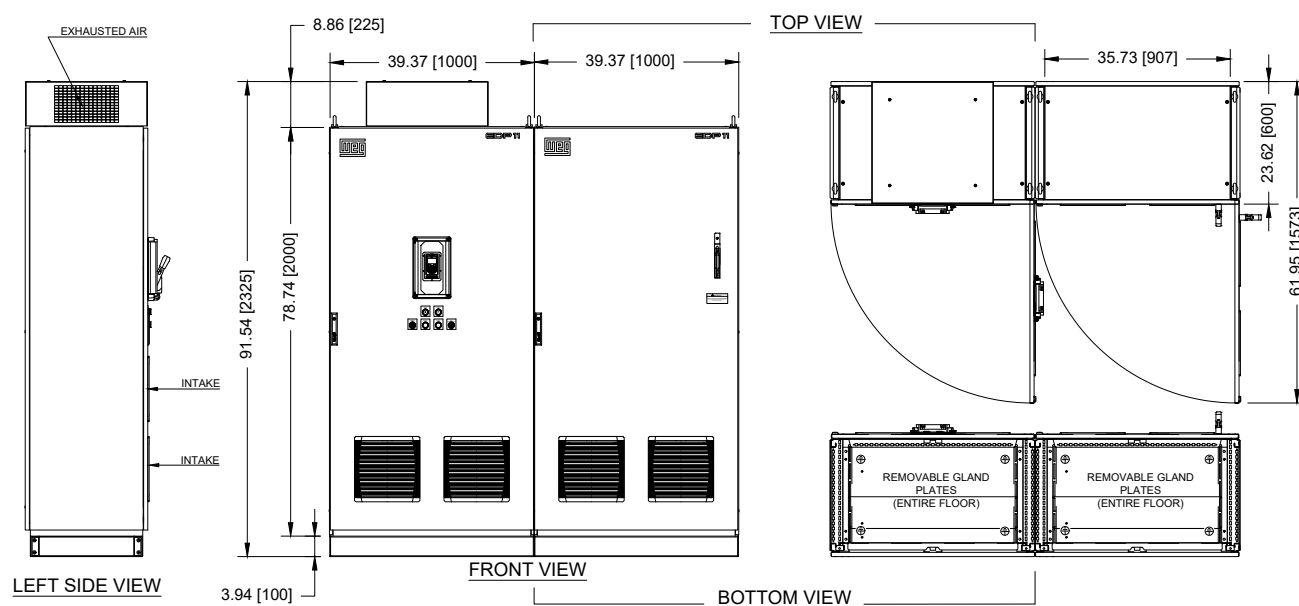
Frame Size ED9

Enclosure for size G drives equipped with Bypass



Frame Size ED10

Enclosure for size H drives w/o Bypass



EDP11 Series

Technical Data

Power Supply	Power Voltage	Three-phase 200–240 VAC / Three-phase 460–480 VAC
	Frequency	50/60 Hz +/- 2 Hz
	Phase Umbalance	≤ 3% of the rated Phase to Phase Input Voltage
	Drive Power Factor for Rated Condition: ND	≥ 0.94
	Efficiency	≥ 97%; Class IE2 according to IEC61800-9-2 (Value during Nominal Condition)
Drive Output	Power Output Range	2 HP to 1000 HP @ 3 ph 460 VAC / 2 HP to 75 HP @ 3 ph 230 VAC
	Power Output Signal	Sinusoidal PWM (Pulse Width Modulation) with IGBT Transistors
	Switching Frequency	1.25, 2.0, 2.5, 5.0 or 10 KHz in Space Vector Control Mode
	Overload Capacity	VT (Variable Torque) / ND (Normal Duty): 110% overload for 50 seconds CT (Constant Torque) / HD (Heavy Duty): 150% overload for 60 seconds
	Control Mode	Volts per Hertz (Scalar), Voltage Vector (VWV), Sensor-less Vector, Vector with Encoder.
	Output Frequency Range	0–300 Hz in Scalar Mode; 120 Hz in Vector Mode.
	Maximum Motor Cable Length	From 30–300 Mts depending on the application and VFD Size.
Enclosure Specifications	Degree of Protection	NEMA 12 / NEMA 3R
	Paint	Powder Coated (Epoxy-Polyester) RAL7035, Texture Finished.
	Frame Sizes	ED1 to ED10 (See detailed dimensions on pages 128–133)
	Type of Ventilation	Frame sizes ED1 to ED5 feature a non-ventilated enclosure design, where the drive is flange-mounted. This allows the rear heatsink to be isolated and cooled by its own forced ventilation system. ED6 to ED10 Frame Sizes: Cooling is managed via a high-efficiency fan located at the top, with air intake pre-filtered through protective covers at the bottom-front.
Versions	Standard	Frame sizes ED1 to ED5 are designated by an 'S' at the sixth position of the part number.
	Enhanced	Frame Sizes ED6 to ED10 are designated an 'E' at the sixth position of the part number.
Ambient	Maximum Ambient Temperature of Operation	Frame Sizes ED1 (3.6 AMP ND) to ED3 (88 AMP ND): Maximum 45°C ambient temperature without derating. Frame Sizes ED4 (105 AMP ND) to ED8 (601 AMP ND): Maximum 40°C ambient temperature without derating. Frame Sizes ED8 (720 AMP ND) to ED10 (1141 AMP ND): Maximum 35°C ambient temperature without derating.
	Altitude	0–3,300 ft (1,000 m) up to 13,200 ft (4,000 m) with 1% output current derating per 330 ft (100 m) above 3,300 ft (1,000 m).
	Humidity	5–95% Non-condensing
Mechanical On-Site Installation	Frame Sizes ED1 to ED4	Wall-mounted installation.
	Frame Sizes ED5 to ED10	Floor-mounted installation.
NEMA 12 Features	General Description	Our NEMA 12 compliant units are specifically engineered for indoor use, providing robust protection against dust and light splashing. Each panel comes fully equipped with a front-mounted Keypad for easy interface, dedicated Start/Stop control buttons, and clearly visible Run and Fault indicator lights. For enhanced safety, the system includes a mechanical door interlock operated by a rotary handle connected to the circuit breaker; this safety mechanism prevents the panel from being opened while the unit is energized, ensuring secure operation and maintenance. In some of our Enhanced Version units, the traditional rotary handle is replaced by a Flange Handle Mechanism. This system performs the same critical safety function, preventing the enclosure door from being opened while the internal components are energized. In these specific configurations, the door safety is managed through an electrical interlock system, ensuring a secure environment by locking the panel access whenever the breaker is in the 'ON' position.
	Ventilation System	NEMA 12 Standard panels (Sizes ED1 to ED5) are "Flange Mounted." This means the back of the drive, where the heatsink is located, sits outside the main cabinet and into a rear chimney. The fans on the heatsink then push the heat generated by the VFD directly to the outside through this chimney. This clever design keeps the heat away from the sensitive parts inside the cabinet, ensuring the equipment stays cool and runs reliably. In the NEMA 12 Enhanced Version Panels (Sizes ED6 to ED10) the drive is fully integrated inside the panel in a "Surface Mounted" installation. This means the heatsink is no exposed at the rear. Instead, cooling is managed via a high-efficiency fan located at the top, with air intake pre-filtered through protective covers at the bottom-front.
NEMA 3R Features	General Description	NEMA 3R panels include NEMA 12 features plus: - outdoor rated - NEMA 3R kit installed at the top of the panel (includes a drip shield and a mounting bracket) - panel space heater + thermostat - lightning arrestor - service entrance rated
	Ventilation System	Standard Version (Sizes ED1-ED5): This unit is built upon a NEMA 12 base design and upgraded to NEMA 3R via a dedicated adaptation kit. This kit, consisting of a precision-engineered Drip Shield and Bracket, reinforces the enclosure's integrity by preventing water ingress from dripping and shielding the panel from snow accumulation, thereby eliminating the risk of environmental damage. Enhanced Version (Sizes ED6-ED10): This version features a factory-installed protection kit integrated directly into the front panel ventilation grilles. Because the structural chassis of the Enhanced Version is natively compliant with NEMA 3R requirements, no further field modifications or additional accessories are necessary. The unit is delivered fully optimized to withstand moisture and debris, maintaining peak performance in exposed environments.
Main Protection	Short Circuit Protection	Main Breaker. It includes a door interlock which is operated by a rotary handle mechanism.
	Overload	Managed by the drive in VFD-Only configurations. In 3-contactor bypass configurations, overload protection is provided by either the VFD or a dedicated thermal overload relay, depending on the active operating mode.
	Reverse Phase Sequence	In-built feature of VFD
	Overtemperature in heatsink	Managed by the VFD
	DC Link Over/Under Voltage	Managed by the VFD
	Output Phase to Phase or Phase to Ground short Circuit	Managed by the VFD
Options	3-Contactor Bypass Option	Available in NEMA 12 or NEMA 3R Enclosed Drive versions
		AC-3 Full-Rated Bypass Contactor
		Drive Input and Output Contactors
		Motor Overload Relay
		E-Stop Mushroom style pushbutton
	HOA/POT/TB (Terminal Blocks) Options	HOA = HAND-OFF-AUTO Selector Switch
		POT = Potentiometer for Speed Reference
		TB = Auxiliary Control Terminal Block for Remote Command
Other Options	Communications	Modbus RTU, Modbus TCP, Profibus, Profinet, Ethernet/IP, DevicNet etc.
	I/O Expansions	Digital Input Expansion, Digital Output Expansion, Analog Input and Output Expansion etc.
	Encoder Options	Incremental Encoder Module with and without expansion repeater signal.
	PLC interfaces	PLC Functions with Ladder Programming with digital inputs and outputs.
	Motor temperature Protection	PTC Thermocouple, RTD PT100 and KTY800 temperature sensor interfaces.
Regulatory Conformance	UL508A	Standard for Safety of Industrial Control Panels

Technical Data

NEMA 12 Type Enclosure



NEMA 12 Type Enclosure



GPH2 Series – Combination Soft-Starters

The Combination Soft Starter is a NEMA 4 Enclosed industrial general purpose AC motor soft starter package. It is designed for simple and quick installation and start-up, requiring only input power and output motor connections.

The Combination Soft Starter is built to complement the ruggedness and reliability of WEG motors, providing a complete, simple, and cost effective AC motor starting and protection solution.

Standard Features

- Rated for 300% for 30 seconds
- Rated for 450% with derating
- 5–175 HP at 230 V
- 10–350 HP at 460 V
- Wall-mounted enclosures for up to 125 HP at 230V; 250 HP at 460V
- Floor-mounted enclosure for up to 150–175 HP at 230V, and 300–350 HP at 460V
- Soft Starter
- SSW07 from 17–412 A (all models with integrated AC1 bypass)
- Circuit breaker with through door disconnect
- Control power transformer
- START/STOP pushbuttons
- RUN/FAULT pilot lights
- Hand-Off-Auto (HOA) selector switch
- SuperDrive G2 compatible

Optional Features

- AC3 bypass contactor and DOL Selector Switch
- Door mounted keypad
- 575 VAC Supply
- SUSE Service Entrance Rated
- IP20 Protection Kit only available on customized panels.

Stocked Products

[See Page 132-135](#)



Applications

- Centrifugal pumps
- Screw compressors
- Centrifugal fans
- Wood chipper
- Veneer lathe
- Saw
- Conveyor

Notes:
SSW07 models do not include keypad

GPH2 Catalog Number Sequence

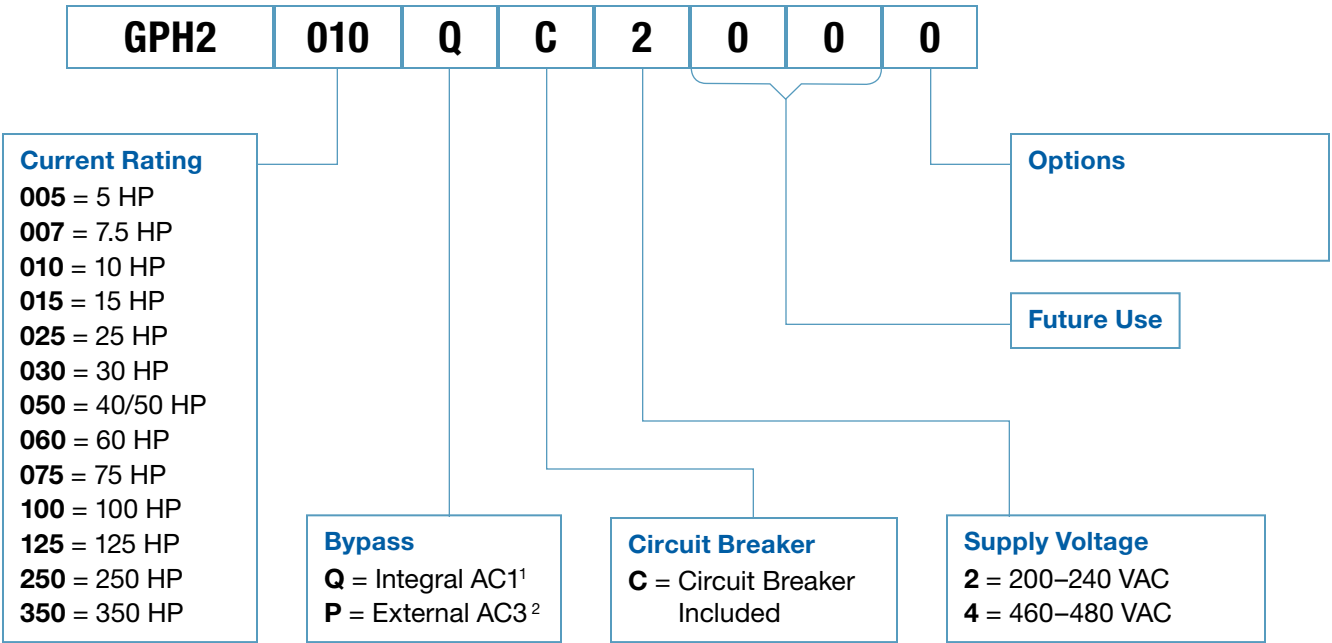


Chart intended as reference only and not to create part numbers.

1) Bypass contactor is 'Run Rated' and is integral to the soft starter.

2) Bypass contactor is 'Full Rated' and mounted adjacent the soft starter inside the panel.

NEMA 4 Enclosure (Standard Version – with Circuit Breaker, Integral AC1 Bypass and no Keypad on Door)

Panels highlighted in **GREEN** represent panels that are normally kept in stock.

Motor Voltage	Motor HP ¹	Starter Amps ²	Catalog Number	Frame Size	Approx. Weight ⁴ (lbs)	List Price	Multiplier New (old)
230 VAC	Input Power Supply: Three-Phase 200–240 VAC						
	5	17	GPH2005QC2000	1	140	\$3,650	E1G (E1)
	7.5	24	GPH2007QC2000	1	140	\$3,750	E1G (E1)
	10	30	GPH2010QC2000	1	140	\$3,900	E1G (E1)
	15	45	GPH2015QC2000	2	150	\$4,300	E1G (E1)
	25	61	GPH2025QC2000	2	150	\$4,800	E1G (E1)
	30	85	GPH2030QC2000	2	150	\$5,800	E1G (E1)
	50	130	GPH2050QC2000 ⁵	3	280	\$6,990	E1G (E1)
	60	171	GPH2060QC2000 ⁵	3	280	\$7,500	E1G (E1)
	75	200	GPH2075QC2000 ⁵	3	280	\$8,450	E1G (E1)
	100	255	GPH2100QC2000 ⁵	4	415	\$10,700	E1G (E1)
	125	312	GPH2125QC2000 ⁵	4	415	\$11,880	E1G (E1)
	150	365	GPH2150QC2000	5	610	\$12,700	E1G (E1)
	175	412	GPH2175QC2000	5	610	\$14,500	E1G (E1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC						
	10	17	GPH2010QC4000	1	140	\$3,650	E1G (E1)
	15	24	GPH2015QC4000	1	140	\$3,750	E1G (E1)
	20	30	GPH2020QC4000	1	140	\$3,900	E1G (E1)
	30	45	GPH2030QC4000	2	150	\$4,300	E1G (E1)
	40 / 50	61	GPH2050QC4000	2	150	\$4,800	E1G (E1)
	75	85	GPH2075QC4000	2	150	\$5,800	E1G (E1)
	100	130	GPH2100QC4000 ⁵	3	280	\$6,990	E1G (E1)
	125	171	GPH2125QC4000 ⁵	3	280	\$7,500	E1G (E1)
	150	200	GPH2150QC4000 ⁵	3	280	\$8,450	E1G (E1)
	200	255	GPH2200QC4000 ⁵	4	415	\$10,700	E1G (E1)
	250	312	GPH2250QC4000 ⁵	4	415	\$11,880	E1G (E1)
	300	365	GPH2300QC4000	5	610	\$12,700	E1G (E1)
	350	412	GPH2350QC4000	5	610	\$14,500	E1G (E1)

Notes:
1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.
2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of the starter.
3) For other technical data please refer to WEG product manual.
4) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.
5) The IP20 Kit Protection Cover Option is only available on customized panels. Please refer to your WEG representative for more information.

Stocked Products

NEMA 4 Enclosure (with Circuit Breaker, Integral AC1 Bypass and Keypad on Door)

Panels highlighted in **GREEN** represent panels that are normally kept in stock.

Motor Voltage	Motor HP ¹	Starter Amps ²	Catalog Number	Frame Size	Approx. Weight ⁴ (lbs)	List Price	Multiplier New (old)
230 VAC	Input Power Supply: Three-Phase 200–240 VAC						
	5	17	GPH2005QC2001	1	140	\$4,145	E1G (E1)
	7.5	24	GPH2007QC2001	1	140	\$4,245	E1G (E1)
	10	30	GPH2010QC2001	1	140	\$4,395	E1G (E1)
	15	45	GPH2015QC2001	2	150	\$4,795	E1G (E1)
	25	61	GPH2025QC2001	2	150	\$5,295	E1G (E1)
	30	85	GPH2030QC2001	2	150	\$6,295	E1G (E1)
	50	130	GPH2050QC2001 ⁵	3	280	\$7,485	E1G (E1)
	60	171	GPH2060QC2001 ⁵	3	280	\$7,995	E1G (E1)
	75	200	GPH2075QC2001 ⁵	3	280	\$8,945	E1G (E1)
	100	255	GPH2100QC2001 ⁵	4	415	\$11,195	E1G (E1)
	125	312	GPH2125QC2001 ⁵	4	415	\$12,375	E1G (E1)
	150	365	GPH2150QC2001	5	610	\$13,195	E1G (E1)
	175	412	GPH2175QC2001	5	610	\$14,995	E1G (E1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC						
	10	17	GPH2010QC4001	1	140	\$4,145	E1G (E1)
	15	24	GPH2015QC4001	1	140	\$4,245	E1G (E1)
	20	30	GPH2020QC4001	1	140	\$4,395	E1G (E1)
	30	45	GPH2030QC4001	2	150	\$4,795	E1G (E1)
	40 / 50	61	GPH2050QC4001	2	150	\$5,295	E1G (E1)
	75	85	GPH2075QC4001	2	150	\$6,295	E1G (E1)
	100	130	GPH2100QC4001 ⁵	3	280	\$7,485	E1G (E1)
	125	171	GPH2125QC4001 ⁵	3	280	\$7,995	E1G (E1)
	150	200	GPH2150QC4001 ⁵	3	280	\$8,945	E1G (E1)
	200	255	GPH2200QC4001 ⁵	4	415	\$11,195	E1G (E1)
	250	312	GPH2250QC4001 ⁵	4	415	\$12,375	E1G (E1)
	300	365	GPH2300QC4001	5	610	\$13,195	E1G (E1)
	350	412	GPH2350QC4001	5	610	\$14,995	E1G (E1)

Notes:

1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of the starter.

3) For other technical data please refer to WEG product manual.

4) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.

5) The IP20 Kit Protection Cover Option is only available on customized panels. Please refer to your WEG representative for more information.

GPH2 Series

NEMA 4 Enclosure (with Circuit Breaker, External AC3 Bypass and no Keypad on Door)

Panels highlighted in GREEN represent panels that are normally kept in stock.

Motor Voltage	Motor HP ¹	Starter Amps ²	Catalog Number	Frame Size	Approx. Weight ⁴ (lbs)	List Price	Multiplier New (old)
230 VAC	Input Power Supply: Three-Phase 200–240 VAC						
	5	17	GPH2005PC2000	1	140	\$3,900	E1G (E1)
	7.5	24	GPH2007PC2000	1	140	\$4,032	E1G (E1)
	10	30	GPH2010PC2000	1	140	\$4,243	E1G (E1)
	15	45	GPH2015PC2000	2	150	\$4,865	E1G (E1)
	25	61	GPH2025PC2000	2	150	\$5,412	E1G (E1)
	30	85	GPH2030PC2000	2	150	\$6,585	E1G (E1)
	50	130	GPH2050PC2000 ⁵	3	280	\$8,260	E1G (E1)
	60	171	GPH2060PC2000 ⁵	3	280	\$9,013	E1G (E1)
	75	200	GPH2075PC2000 ⁵	3	280	\$10,350	E1G (E1)
	100	255	GPH2100PC2000 ⁵	4	415	\$12,965	E1G (E1)
	125	312	GPH2125PC2000 ⁵	4	415	\$14,847	E1G (E1)
	150	365	GPH2150PC2000	5	610	\$15,706	E1G (E1)
	175	412	GPH2175PC2000	5	610	\$21,075	E1G (E1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC						
	10	17	GPH2010PC4000	1	140	\$3,900	E1G (E1)
	15	24	GPH2015PC4000	1	140	\$4,032	E1G (E1)
	20	30	GPH2020PC4000	1	140	\$4,243	E1G (E1)
	30	45	GPH2030PC4000	2	150	\$4,865	E1G (E1)
	40 / 50	61	GPH2050PC4000	2	150	\$5,412	E1G (E1)
	75	85	GPH2075PC4000	2	150	\$6,585	E1G (E1)
	100	130	GPH2100PC4000 ⁵	3	280	\$8,260	E1G (E1)
	125	171	GPH2125PC4000 ⁵	3	280	\$9,013	E1G (E1)
	150	200	GPH2150PC4000 ⁵	3	280	\$10,350	E1G (E1)
	200	255	GPH2200PC4000 ⁵	4	415	\$12,965	E1G (E1)
	250	312	GPH2250PC4000 ⁵	4	415	\$14,847	E1G (E1)
	300	365	GPH2300PC4000	5	610	\$15,706	E1G (E1)
	350	412	GPH2350PC4000	5	610	\$21,075	E1G (E1)

Notes:
1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.
2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of the starter.
3) For other technical data please refer to WEG product manual.
4) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.
5) The IP20 Kit Protection Cover Option is only available on customized panels. Please refer to your WEG representative for more information.

Stocked Products

NEMA 4 Enclosure (with Circuit Breaker, External AC3 Bypass and Keypad on Door)

Panels highlighted in **GREEN** represent panels that are normally kept in stock.

Motor Voltage	Motor HP ¹	Starter Amps ²	Catalog Number	Frame Size	Approx. Weight ⁴ (lbs)	List Price	Multiplier New (old)
230 VAC	Input Power Supply: Three-Phase 200–240 VAC						
	5	17	GPH2005PC2001	1	140	\$4,395	E1G (E1)
	7.5	24	GPH2007PC2001	1	140	\$4,527	E1G (E1)
	10	30	GPH2010PC2001	1	140	\$4,738	E1G (E1)
	15	45	GPH2015PC2001	2	150	\$5,360	E1G (E1)
	25	61	GPH2025PC2001	2	150	\$5,907	E1G (E1)
	30	85	GPH2030PC2001	2	150	\$7,080	E1G (E1)
	50	130	GPH2050PC2001 ⁵	3	280	\$8,755	E1G (E1)
	60	171	GPH2060PC2001 ⁵	3	280	\$9,508	E1G (E1)
	75	200	GPH2075PC2001 ⁵	3	280	\$10,845	E1G (E1)
	100	255	GPH2100PC2001 ⁵	4	415	\$13,460	E1G (E1)
	125	312	GPH2125PC2001 ⁵	4	415	\$15,342	E1G (E1)
	150	365	GPH2150PC2001	5	610	\$16,201	E1G (E1)
	175	412	GPH2175PC2001	5	610	\$21,570	E1G (E1)
460 VAC	Input Power Supply: Three-Phase 460–480 VAC						
	10	17	GPH2010PC4001	1	140	\$4,395	E1G (E1)
	15	24	GPH2015PC4001	1	140	\$4,527	E1G (E1)
	20	30	GPH2020PC4001	1	140	\$4,738	E1G (E1)
	30	45	GPH2030PC4001	2	150	\$5,360	E1G (E1)
	40 / 50	61	GPH2050PC4001	2	150	\$5,907	E1G (E1)
	75	85	GPH2075PC4001	2	150	\$7,080	E1G (E1)
	100	130	GPH2100PC4001 ⁵	3	280	\$8,755	E1G (E1)
	125	171	GPH2125PC4001 ⁵	3	280	\$9,508	E1G (E1)
	150	200	GPH2150PC4001 ⁵	3	280	\$10,845	E1G (E1)
	200	255	GPH2200PC4001 ⁵	4	415	\$13,460	E1G (E1)
	250	312	GPH2250PC4001 ⁵	4	415	\$15,342	E1G (E1)
	300	365	GPH2300PC4001	5	610	\$16,201	E1G (E1)
	350	412	GPH2350PC4001	5	610	\$21,570	E1G (E1)

Notes:

1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of the starter.

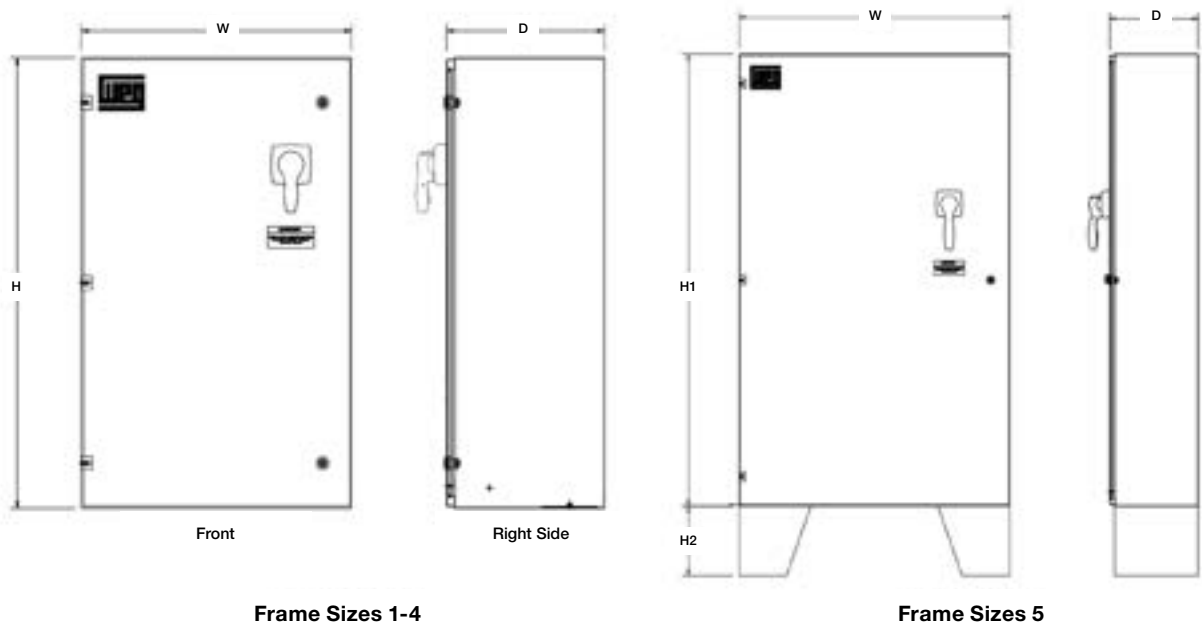
3) For other technical data please refer to WEG product manual.

4) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.

5) The IP20 Kit Protection Cover Option is only available on customized panels. Please refer to your WEG representative for more information.

GPH2 Series

Dimensions



GPH Dimensions ¹

Frame	W	D	H/H1	H2	Approx. Weight (lbs)
1	16	8	24	N/A	140
2	24	12	32	N/A	150
3	24	14	40	N/A	280
4	32	16	48	N/A	415
5	36	16	60	12	610

Notes:
1) H1 + H2 = overall height

INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM



APS9 Series – All Purpose Soft Starter Panel

The WEG All Purpose Soft Starter (APS9) is designed to meet a wide range of soft starting application needs, having ratings for both the most demanding Heavy Duty (HD) applications and standard Normal Duty (ND) applications. The 1.15 service factor and 65k AIC interrupting rating coupled with an outdoor friendly heavy duty, white, UL Type 12/3R/4 enclosure, make the APS9 suitable to install anywhere, indoor or outdoor, including wash down locations. The full start rated (AC3) bypass starter provides direct on-line starting in emergency situations. The full suite of door operators, and Bluetooth keypad provides all the options you will need to meet any control situation. From rock crushers to irrigation pumps, the APS9 is your one solution for all critical starting applications.

Stocked Products

[See Page 140](#)



Standard Features

- Built with WEG Next generation new SSW900 soft starter.
- Rated for 65kA SCCR as a standard.
- Input voltage: 208/230/460 VAC. (460 VAC as a standard. CPT wiring modification needed for 208 or 230 VAC input voltage.)
- Dual duty rated soft starter panel, unique concept in the market:
 - Normal Duty: 350% for 30 seconds 1.00 SF
 - Heavy Duty: 450% for 30 seconds 1.15 SF
- UL 3R/4/12 rated white heavy duty rated enclosure suitable for dusty, wet or outdoor applications.
- Narrow design requires less space, floor mounting of enclosure available with optional leg kit.
- Main 65kA rated circuit breaker with through the door rotary handle.
- Service Entrance Rated.
- Full HP rated AC3 emergency bypass contactor with Class-30 overload relay helps to start and run the motor across the line in case of soft starter failure.
 - “Soft Starter-off-Bypass” selector switch mounted inside an enclosure.
- Fused Control Power Transformer (208/230/460 VAC to 120 VAC).
- Electronic circuit board with wire harnesses to replace most of the control wiring; makes it easier and faster to replace the components.
- Termination for customer supplied remote START/STOP and External interlock dry contacts.
- “Motor running” and “system fault” dry contacts available for customer use.
- Enclosure door mounted:
 - SSW900 soft starter graphical keypad with RTC, “Help” menu, USB port and built-in Bluetooth. Bluetooth allows easy programming and monitoring of SSW900 using cell phone app WEG Programming Suite (WPS).
 - “Hand-Off-Auto” Selector switch.
 - “Start” illuminated (Run light) PB, “Stop” PB, E-stop PB, “SSW Reset” Illuminated (System Fault light) PB.
- Power On, Bypass Enabled and External interlock disabled Pilot lights.

APS9 Catalog Number Sequence

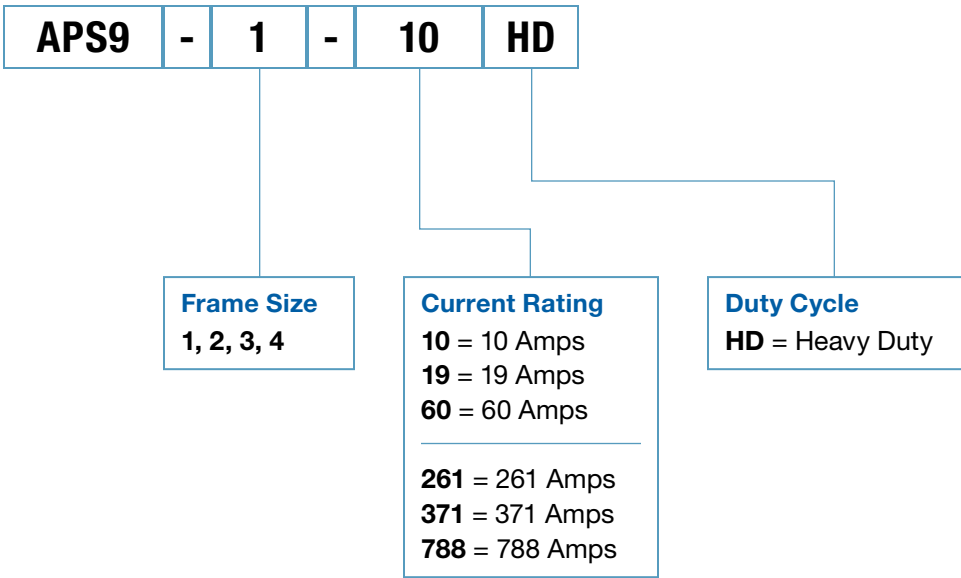


Chart intended as reference only and not to create part numbers.

Dimensions

APS9 Enclosure Frame Size

Panels highlighted in GREEN represent panels that are normally kept in stock.

UL TYPE 12/3R/4 Enclosure

HEAVY DUTY (HD) ¹ – 1.15 SF 450% FLA for 30 Seconds				NORMAL DUTY (ND) ² – 1.00 SF 350% FLA for 30 Seconds				Catalog Number	Enclosure Frame	Approx. Weight (lbs)	List Price	Multiplier
HD-Max MOTOR FLA	MOTOR HP ³			ND-Max MOTOR FLA	MOTOR HP ³							
	460 VAC	230 VAC	208 VAC		460 VAC	230 VAC	208 VAC					
10	5	3	2	10	5	3	2	APS9-1-10HD	1	150	\$10,775	K2
19	10	5	5	22	15	7.5	5	APS9-1-19HD		150	\$10,950	K2
31	20	10	10	40	30	10	10	APS9-1-31HD		155	\$11,325	K2
43	30	15	10	55	40	20	15	APS9-1-43HD		155	\$11,495	K2
60	40	20	20	77	60	25	25	APS9-1-60HD		155	\$11,950	K2
77	60	25	25	97	75	30	30	APS9-1-77HD		155	\$12,250	K2
96	75	30	30	120	100	40	40	APS9-1-96HD		155	\$13,575	K2
125	100	40	40	161	125	60	50	APS9-1-125HD		175	\$14,250	K2
156	125	60	50	180	150	60	60	APS9-2-156HD	2	210	\$15,475	K2
185	150	60	60	238	200	75	75	APS9-2-185HD		230	\$16,650	K2
261	200	100	75	300	250	100	100	APS9-3-261HD	3	275	\$20,500	K2
302	250	100	100	383	300	150	125	APS9-3-302HD		310	\$22,875	K2
371	300	150	125	477	400	150	150	APS9-3-371HD ⁴	4	360	\$27,075	K2
481	400	200	150	619	500	250	200	APS9-4-481HD		975	\$34,950	K2
551	450	200	200	708	600	250	-	APS9-4-551HD		975	\$38,975	K2
616	500	250	-	792	700	300	-	APS9-4-616HD		1060	\$43,650	K2
788	700	300	-	960	800	400	-	APS9-4-788HD		1060	\$55,150	K2

Notes:
1) HD (Heavy Duty): 450% for 30 seconds, 1.15 S.F. Application examples: crushers, conveyors, shredders, chippers, ball/hammer mills, etc.
2) ND (Normal Duty): 350% for 30), 1.0 S.F.
3) The above "HP" ratings are based on motor FLAs as listed in NEC Table 430-150. Please select the APS9 panel by comparing actual motor FLA with "Maximum Motor FLA" for a given voltage and application type (HD/ND).
4) All APS9 panels are rated for 65kA SCCR except "APS9-3-371HD" which is rated for 18kA SCCR. This model will be upgraded to 65kA SCCR soon.

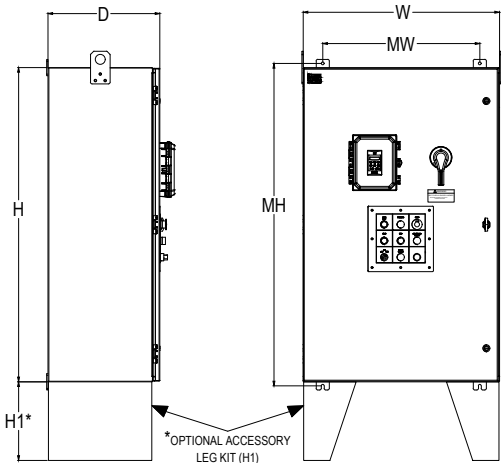
Accessories

Type	Catalog Number	Description	List Price	Multiplier
Leg Kit for Floor Mounting	WENCL-ESL16-06-00	6 in Tall Leg kit for APS9 enclosure frame-1 or 3, supplied loose	\$525	K2
	WENCL-ESL18-06-00	6 in Tall Leg kit for APS9 enclosure frame-2, supplied loose	\$550	K2
	WENCL-ESL22-06-00	6 in Tall Leg kit for APS9 enclosure frame-4, supplied loose	\$609	K2
	WENCL-ESL16-12-00	12 in Tall Leg kit for APS9 enclosure frame-1 or 3, supplied loose	\$690	K2
	WENCL-ESL18-12-00	12 in Tall Leg kit for APS9 enclosure frame-2, supplied loose	\$730	K2

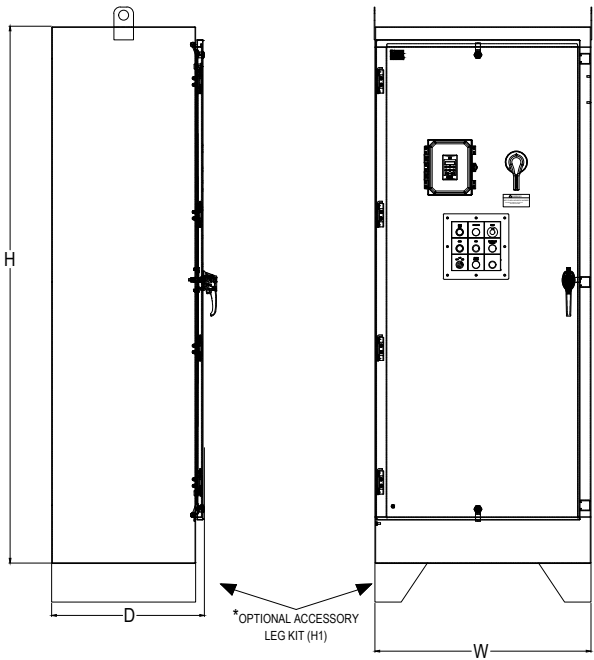
Dimensions

APS9 Enclosure Frame Size

Enclosure Frame: 1, 2 & 3



Enclosure Frame: 4



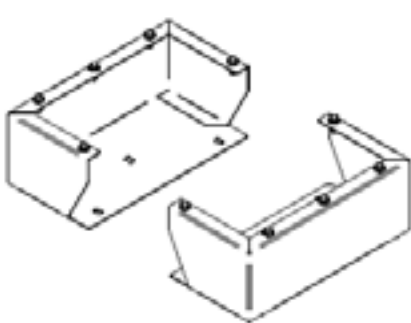
Encl. Frame	W (in)	D (in)	H (in)	H1 (in) ¹	MH (in)	MW (in)	Mounting
1	20	16	32	6/12	33.25	14	Wall (Floor with optional 6 in or 12 in tall floor kit)
2	24	18	37	6/12	38.25	18	
3	30	16	48	6/12	49.25	24	
4	33	22	82	6	-	-	Free Standing

Notes:
1) Optional leg kit accessory 6 in or 12 in tall.

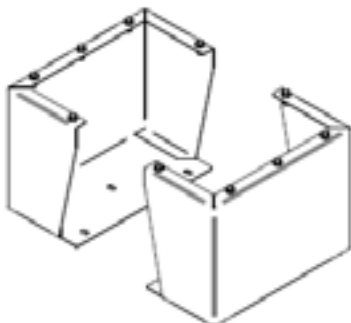
APS9 - All Purpose Soft Starter Panel

Optional Accessories

Leg Kits

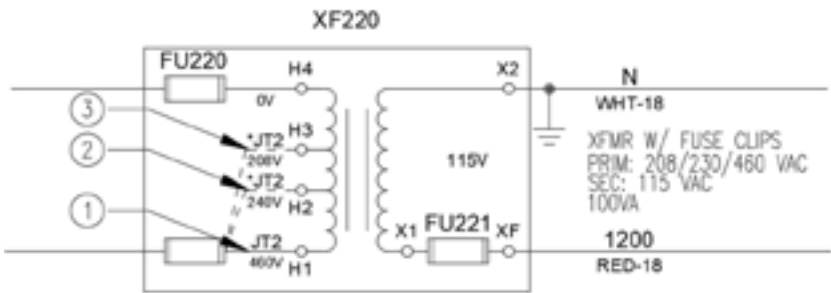


6 in Tall Leg Kit



12 in Tall Leg Kit

Conversion from 3/460 VAC to 3/230 VAC or 3/208 VAC Supply Voltage



NOTE: CONTROL POWER TRANSFORMER IS CONFIGURED FROM FACTORY AS 460–480V INPUT SUPPLY VOLTAGE.

CUSTOMER MUST RECONFIGURE FOR 208V OR 230–240V INPUT SUPPLY VOLTAGE BY RETERMINATING XF220 JUMPER 'JT2' ONTO COORESPONDING PIN.
SEE TRANSFORMER CONFIGURATION TABLE

TRANSFORMER CONFIGURATION TABLE			200VA FUSE SIZE	
XF220 INPUT SUPPLY VOLTAGE		JT2* WIRING PIN	*FU220 (CC)	**FU221 (MIDGET)
1	460 VAC (DEFAULT)	H1	2.0 A	2.75 A
2	230 VAC	H2		
3	208 VAC	H3		

INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM



WEG Motion Fleet Management

Condition Monitoring of the Fleet

Developed to bring more practicality and agility in the operation, maintenance and management of industrial plants, the WEG Motion Fleet Management is the ideal solution to monitor and raise the availability of the industrial fleet. Based on “cloud computing” technology, asset monitoring can be followed at any time and from anywhere in the world.

Diagnostics & Integration

Specialist

Advanced diagnostics algorithms for failures and consumption analysis



Exchange

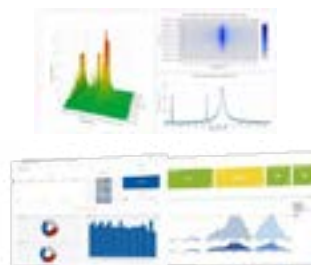
Integration with third party systems and platforms via REST API



Application & Management

Management

Asset monitoring and management. Data storage, maintenance notifications, reports, intuitive dashboard...



WEGscans & Gateways



WEGscan & Gateway



WEGscan 1000 & 1001



WEGscan 4000

Coming Soon!

Assets



WEG Motion Fleet Management

With WEG Motion Fleet Management, it is possible to know the operational status of electric motors, low and medium voltage variable speed drive and soft-starters, smart relay starting WEG (SRW), gearboxes, gear motors, compressors, among other assets, which are applied in any type of industry or installation. Through periodic data collection and advanced data processing, both at the edge and in the cloud, valuable insights are generated. This way, it is possible to establish predictive maintenance plans, observing the operational condition of the fleet (condition-based maintenance). This approach reduces the number of unplanned stops, optimizes repair actions, and speeds up the decision-making process for the operation and maintenance team. The result is increased availability and reduced total cost of ownership (TCO) of the drive fleet.

Main Features of WEG MFM Solution

- Dedicated and robust hardware for data acquisition
- Data processing at the edge and in the cloud
- Periodic fleet reports
- Creation and management of maintenance orders
- Asset prioritization tool
- Specialist Modules with Analytics and Artificial Intelligence for fault diagnosis
- Exchange modules for data integration with other platforms (via Web Service REST)

Advantages and Benefits of the WMFM Solution

- Monitoring of several assets and plants in a single environment
- Ecosystem in constant development, both hardware and software
- Fleet management view with reports and indicators
- Ready-to-use solution, just register the WEG Scans in the application and use it
- Customized layouts for navigation at various levels (geolocation, site, plant, device)
- Definition of favorite assets for easy tracking of their status; Daily notifications of assets in alert and/or critical state (via e-mail)
- Customization of tolerances to generate alerts and notifications
- Enables maintenance management based on the operational condition of the assets
- Dashboards with indicators, graphics, and history of measured data
- Screens for user and subscription management
- Flexible solution available to service providers
- Operational cost reduction (TCO, Total Cost of Ownership)
- Multi-language application.

WEG Motion Fleet Management

Sensors & Accessories

Catalog Number	Mat. #	Description	List Price	Multiplier
Sensor				
WMSC-1-MFM-M ¹	15710102	WEG Motor Scan Sensor with 1 year of Management Subscription	\$380	E4
WMSC-1-MFM-S	15956243	WEG Motor Scan Sensor with 1 year of Management and Specialist Subscriptions	\$380	E4
WMSC-2-MFM-S	16115533	WEG Motor Scan Sensor with two (2) year of Management and Specialist Subscriptions	\$580	E4
WEGSCAN 100-1-MFM-S	16437262	WEGscan 100 Sensor with 1 year of Management and Specialist Subscriptions (Gen-2 Product)	\$450	E4
WEGSCAN 101-1-MFM-S	16437478	WEGscan 101 Sensor with 1 year of Management and Specialist Subscriptions, external 10–24 VDC/AC power operated (Gen-2 Product)	\$450	E4
ED300-DSL-2P2SE-W-POE	15474014	WEGscan 1000 with 1 year of Management Subscription for WEG LV Drives and soft starters: CFW100/300/500/11; SSW900 Notes: 1 year of Management Subscriptions for 10 WEG LV Drives/Soft starters included. Up to 20 WEG LV Drives/soft starters can be connected, 10 via RS485 – Modbus RTU and 10 via Modbus TCP.	\$2,390	E4
ED300-DSMV-2P2SE-W-POE	15474012	WEGscan 1001 with 1 year of Management Subscription for WEG MV Drives and soft starters: MW01/3000; SSW7000 Notes: 1 year of Management Subscriptions for 5 WEG MV Drives/Soft starters included. Up to 10 WEG MV Drives/soft starters can be connected, 5 via RS485 – Modbus RTU and 5 via Modbus TCP.	\$2,390	E4
Gateway				
MOTOR-SCAN GATEWAY ²	15823501	Motor Scan Gateway, X1000	\$2,430	E4
CASSIA X2000	16214567	Gateway for WEGscan 100 / WEG Motor Scan (Gen-2 Product)	\$3,495	E4
Sensor Accessories				
FIXING KIT WMS-50	16280148	Intermediate base to affix WEG Motor Scan onto asset surface, a pack of 50 pcs	\$505	E4
FIXING KIT WEGSCAN 100	17197894	Intermediate base to affix WEGscan 100 onto asset surface, a pack of 50 pcs	\$380	E4
BATTERY KIT WEGSCAN 100	17197896	A pack of 20 pcs of WEGscan 100 batteries (Two batteries needed per WEGscan 100)	\$370	E4
WEGSCAN-GLUE-GUN	17625068	Glue Applicator Gun to glue the WEGscan 100/101 on the asset surface	\$480	E4
PROTECTIVE-COVER	17541794	A kit of 10 pcs of Silicone Protective Cover for WEGscan 100	\$210	E4
CABLE M8-4P ST-F	17526312	WEGscan 101 Power Supply Cable	\$55	E4

Notes:

1) This sensor is no longer available. If not in stock, please use the same sensor with the Management and Specialist subscriptions, WMSC-1-MFM-S / WMSC-2-MFM-S, instead.
2) This Gateway is no longer available. If not in stock, please use the next-generation Gateway "CASSIA X2000" instead. It is compatible with WEG Motor Scan and WEGscan 100.



(WEG Motor Scan)
WMSC-1-MFM-M



(WEGscan 100)
WEGSCAN 100-1-MFM-S



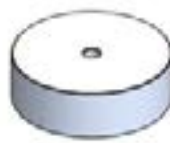
(WEGscan 1000 / 1001)
(LV/MV Drive Scan)
ED300-DSL-2P2SE-W-POE
ED300-DSMV-2P2SE-W-POE



(GATEWAY)
CASSIA X2000



FIXING KIT WMS-50
(one piece shown)



FIXING KIT WEGSCAN 100
(one piece shown)



BATTERY KIT WEGSCAN 100
(one piece shown)

WEG Motion Fleet Management

Subscriptions

Catalog Number	Mat. #	Description	List Price	Multiplier
Management Subscription				
WMF-MGMT-1-ASSET	80002160	1 yr Management subscription for WEG Motor Scan and WEGScan 100	\$192	E4
WMF-MGMT-2-ASSET	80002169	2 yr Management subscription for WEG Motor Scan and WEGScan 100	\$384	E4
WMF-MGMT-1-DRIVE LV	80002209	1 yr Management subscription for WEG LV Drive Scan (WEGScan 1000)	\$192	E4
WMF-MGMT-2-DRIVE LV	80002210	2 yr Management subscription for WEG LV Drive Scan (WEGScan 1000)	\$384	E4
WMF-MGMT-1-DRIVE MV	80002219	1 yr Management subscription for WEG MV Drive Scan (WEGScan 1001)	\$192	E4
WMF-MGMT-2-DRIVE MV	80002220	2 yr Management subscription for WEG MV Drive Scan (WEGScan 1001)	\$384	E4
Specialist Subscription				
WMF-SPEC-1-MOTOR	80002161	1 yr Specialist Module subscription for WEG Motor Scan and WEGScan 100	\$78	E4
WMF-SPEC-2-MOTOR	80002170	2 yr Specialist Module subscription for WEG Motor Scan and WEGScan 100	\$156	E4
WMF-SPEC-1-DRIVE LV	80002646	1 yr Specialist Module subscription for WEG LV Drive Scan (WEGScan 1000)	\$78	E4
WMF-SPEC-2-DRIVE LV	80002647	2 yr Specialist Module subscription for WEG LV Drive Scan (WEGScan 1000)	\$156	E4
Exchange Subscription				
WMF-EXCH-BASIC-1	80002640	Basic Exchange Module subscription for MFM: 1 yr, 10,000 calls/month	\$1,377	E4
WMF-EXCH-BASIC-2	80002643	Basic Exchange Module subscription for MFM: 2 yr, 10,000 calls/month	\$2,754	E4
WMF-EXCH-STANDARD-1	80002641	Standard Exchange Module subscription for MFM: 1 yr, 50,000 calls/month	\$2,523	E4
WMF-EXCH-STANDARD-2	80002644	Standard Exchange Module subscription for MFM: 2 yr, 50,000 calls/month	\$5,046	E4
WMF-EXCH-PLUS-1	80002642	Exchange Plus Module subscription for MFM: 1 yr, 100,000 calls/month	\$3,785	E4
WMF-EXCH-PLUS-2	80002645	Exchange Plus Module subscription for MFM: 2 yr, 100,000 calls/month	\$7,570	E4

WEG Drives & Soft Starters Replacement Guide

CFW10
IP20 Enclosure



Replace with



CFW100
IP20 Enclosure

Motor Voltage	Motor HP ¹	Drive Amps ²	CFW10 Catalog Number	Braking Transistor		Drive Amps ²	CFW100 Catalog Number	Braking Transistor	List Price	Multiplier New (old)
230 VAC / Three-Phase	Input Power Supply: Single-Phase 230 VAC									
	1/4	1.6	CFW100016SDZ	No		1.6	CFW100A01P6S220G2	No	\$302	V1U (V1)
	1/2	2.6	CFW100026SDZ	No		2.6	CFW100B02P6S220G2	No	\$346	V1U (V1)
	1	4.0	CFW100040SDZ	No		4.2	CFW100C04P2S220G2	No	\$396	V1U (V1)
	2	7.3	CFW100073SDZ	Yes		See CFW300 Cross Reference				
	3	10.0	CFW100100SDZ	Yes						
	1/4	1.6	CFW100016SDPLZ	No		1.6	CFW100C04P2S220G2 ³	No	\$302	V1U (V1)
	1/2	2.6	CFW100026SDPLZ	No		2.6	CFW100B02P6S220G2 ³	No	\$346	V1U (V1)
	1	4.0	CFW100040SDPLZ	No		4.2	CFW100C04P2S220G2 ³	No	\$396	V1U (V1)
	2	7.3	CFW100073SDPLZ	Yes		See CFW300 Cross Reference				
	3	10.0	CFW100100SDPLZ	Yes						

Notes:

1) "HP" rating based on "average FLA values." Use as a guide only.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

3) CFW100 has an optional potentiometer available.

For other technical data please refer to WEG product manual.

CFW10
IP20 Enclosure



Replace with



CFW320
IP20 Enclosure

Motor Voltage	Motor HP ¹	Drive Amps ²	CFW10 Catalog Number	Braking Transistor		Drive Amps ²	CFW320 Catalog Number	Braking Transistor	List Price	Multiplier New (old)
230 VAC / Three-Phase	Input Power Supply: Single-Phase 120 VAC									
	1/4	1.6	CFW100016SAZ	No		1.6	CFW320A01P6S1NB20	No	\$361	V1M (V1)
	1/2	2.6	CFW100026SAZ	No		2.6	CFW320A02P6S1NB20	No	\$394	V1M (V1)
	1	4.0	CFW100040SAZ	No		4.2	CFW320A04P2S1NB20	No	\$420	V1M (V1)
	1/4	1.6	CFW100016SAPLZ	No		1.6	CFW320A01P6S1NB20 ³	No	\$361	V1M (V1)
	1/2	2.6	CFW100026SAPLZ	No		2.6	CFW320A02P6S1NB20 ³	No	\$394	V1M (V1)
	1	4.0	CFW100040SAPLZ	No		4.2	CFW320A04P2S1NB20 ³	No	\$420	V1M (V1)
	Input Power Supply: Single-Phase 230 VAC									
	1/4	1.6	CFW100016SDZ	No		1.6	CFW320A01P6S2NB20	No	\$323	V1M (V1)
	1/2	2.6	CFW100026SDZ	No		2.6	CFW320A02P6S2NB20	No	\$348	V1M (V1)
	1	4.0	CFW100040SDZ	No		4.2	CFW320A04P2S2NB20	No	\$371	V1M (V1)
	2	7.3	CFW100073SDZ	Yes		7.3	CFW320A07P3S2NB20	No	\$543	V1M (V1)
	3	10.0	CFW100100SDZ	Yes		10.0	CFW320B10P0B2DB20	Yes	\$648	V1M (V1)
	1/4	1.6	CFW100016SDPLZ	No		1.6	CFW320A01P6S2NB20 ³	No	\$323	V1M (V1)
	1/2	2.6	CFW100026SDPLZ	No		2.6	CFW320A02P6S2NB20 ³	No	\$348	V1M (V1)
	1	4.0	CFW100040SDPLZ	No		4.2	CFW320A04P2S2NB20 ³	No	\$371	V1M (V1)
	2	7.3	CFW100073SDPLZ	Yes		7.3	CFW320A07P3S2NB20 ³	No	\$543	V1M (V1)
	3	10.0	CFW100100SDPLZ	Yes		10.0	CFW320B10P0B2DB20 ³	Yes	\$648	V1M (V1)

Notes:

1) "HP" rating based on "average FLA values." Use as a guide only.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

3) CFW320 has keypad speed adjustment in lieu of CFW10 with Potentiometer.

For other technical data please refer to WEG product manual.

CFW300
IP20 Enclosure



Replace with



CFW320
IP20 Enclosure

Motor Voltage	Motor HP ¹	Drive Amps ²	CFW300 Catalog Number	Braking Transistor		Drive Amps ²	CFW320 Catalog Number ³	Braking Transistor	List Price	Multiplier New (old)
3/230 VAC	Input Power Supply: Single-Phase 120 VAC									
	1/4 or 1/3	1.6	CFW300A01P6S1NB20	No		1.6	CFW320A01P6S1NB20	No	\$361	V1M (V1)
	3/4	2.6	CFW300A02P6S1NB20	No		2.6	CFW320A02P6S1NB20	No	\$394	V1M (V1)
	1	4.2	CFW300A04P2S1NB20	No		4.2	CFW320A04P2S1NB20	No	\$420	V1M (V1)
	2	6.0	CFW300A06P0S1NB20	No		6.0	CFW320A06P0S1NB20	No	\$507	V1M (V1)
	Input Power Supply: Single-Phase 230 VAC									
	1/4 or 1/3	1.6	CFW300A01P6S2NB20	No		1.6	CFW320A01P6S2NB20	No	\$323	V1M (V1)
	3/4	2.6	CFW300A02P6S2NB20	No		2.6	CFW320A02P6S2NB20	No	\$348	V1M (V1)
	1	4.2	CFW300A04P2S2NB20	No		4.2	CFW320A04P2S2NB20	No	\$371	V1M (V1)
	2	6.0	CFW300A06P0S2NB20	No		6.0	CFW320A06P0S2NB20	No	\$461	V1M (V1)
	2	7.3	CFW300A07P3S2NB20	No		7.3	CFW320A07P3S2NB20	No	\$543	V1M (V1)
	3	10.0	CFW300B10P0B2DB20	Yes		10.0	CFW320B10P0B2DB20	Yes	\$648	V1M (V1)
	Input Power Supply: Single-Phase 230 VAC									
	1/4 or 1/3	1.6	CFW300A01P6T2NB20	No		1.6	CFW320A01P6T2NB20	No	\$343	V1M (V1)
	3/4	2.6	CFW300A02P6T2NB20	No		2.6	CFW320A02P6T2NB20	No	\$376	V1M (V1)
	1	4.2	CFW300A04P2T2NB20	No		4.2	CFW320A04P2T2NB20	No	\$399	V1M (V1)
	2	6.0	CFW300A06P0T2NB20	No		6.0	CFW320A06P0T2NB20	No	\$484	V1M (V1)
	2	7.3	CFW300A07P3T2NB20	No		7.3	CFW320A07P3T2NB20	No	\$571	V1M (V1)
	3	10.0	CFW300B10P0B2DB20	Yes		10.0	CFW320B10P0B2DB20	Yes	\$648	V1M (V1)
	5	15.2	CFW300B15P2T2DB20	Yes		15.2	CFW320B15P2T2DB20	Yes	\$792	V1M (V1)

Notes:

1) "HP" rating based on "average FLA values." Use as a guide only.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

3) The CFW320 drive is a drop-in replacement for the corresponding CFW300 drive.

**CFW08 Plus
NEMA 1 Enclosure**



Replace with



**CFW500
(For NEMA 1, please use CFW500
NEMA 1 kit with VFD)**

Motor Voltage	Motor HP ¹	Drive Amps ²	CFW08 Catalog Number	Braking Transistor		Drive Amps ²	CFW500 Catalog Number	Braking Transistor	List Price	Multiplier New (old)
230 VAC	Input Power Supply: Three-Phase 230 VAC									
	1/4-1/3	1.6	CFW080016BDN1A1Z	No		1.6	CFW500A01P6B2NB20G2	No	\$456	V1G (V1)
	1/2	2.6	CFW080026BDN1A1Z	No		2.6	CFW500A02P6B2NB20G2	No	\$467	V1G (V1)
	1	4.0	CFW080040BDN1A1Z	No		4.3	CFW500A04P3B2NB20G2	No	\$506	V1G (V1)
	2	7.0	CFW080070TDN1A1Z	No		7.0	CFW500A07P0T2NB20G2	No	\$628	V1G (V1)
	2	7.3	CFW080073BDN1A1Z	Yes		7.3	CFW500B07P3B2DB20G2	Yes	\$678	V1G (V1)
	3	10	CFW080100BDN1A1Z	Yes		10	CFW500B10P0B2DB20G2	Yes	\$789	V1G (V1)
	5	16	CFW080160TDN1A1Z	Yes		16	CFW500B16P0T2DB20G2	Yes	\$842	V1G (V1)
	7 1/2	22	CFW080220TDN1A1Z	Yes		24	CFW500C24P0T2DB20G2	Yes	\$1,427	V1G (V1)
	10	28	CFW080280TDN1A1Z	Yes		28	CFW500D28P0T2DB20G2	Yes	\$1,777	V1G (V1)
	-	-	-	-		33	CFW500D33P0T2DB20G2	Yes	\$2,146	V1G (V1)
	-	-	-	-		47	CFW500D47P0T2DB20G2	Yes	\$2,910	V1G (V1)
460 VAC	Input Power Supply: Three-Phase 460 VAC									
	1/4-1/3	1.0	CFW080010TGN1A1Z	No		1.0	CFW500A01P0T4NB20G2	No	\$582	V1G (V1)
	3/4	1.6	CFW080016TGN1A1Z	No		1.6	CFW500A01P6T4NB20G2	No	\$604	V1G (V1)
	1	2.6	CFW080026TGN1A1Z	No		2.6	CFW500A02P6T4NB20G2	No	\$649	V1G (V1)
	1	2.7	CFW080027TGN1A1Z	Yes		2.6	CFW500B02P6T4DB20G2	Yes	\$708	V1G (V1)
	2	4.0	CFW080040TGN1A1Z	No		4.3	CFW500A04P3T4NB20G2	No	\$799	V1G (V1)
	2	4.3	CFW080043TGN1A1Z	Yes		4.3	CFW500B04P3T4DB20G2	Yes	\$892	V1G (V1)
	3	6.5	CFW080065TGN1A1Z	Yes		6.5	CFW500B06P5T4DB20G2	Yes	\$1,067	V1G (V1)
	5	10	CFW080100TGN1A1Z	Yes		10	CFW500B10P0T4DB20G2	Yes	\$1,207	V1G (V1)
	7 1/2	13	CFW080130TGN1A1Z	Yes		14	CFW500C14P0T4DB20G2	Yes	\$1,495	V1G (V1)
	10	16	CFW080160TGN1A1Z	Yes		16	CFW500C16P0T4DB20G2	Yes	\$1,684	V1G (V1)
	15	24	CFW080240TGN1A1Z	Yes		24	CFW500D24P0T4DB20G2	Yes	\$2,229	V1G (V1)
	20	30	CFW080300TGN1A1Z	Yes		31	CFW500D31P0T4DB20G2	Yes	\$2,783	V1G (V1)
575 VAC ⁴	Input Power Supply: Three-Phase 575 VAC									
	1	1.7	CFW080017THN1A1Z	Yes		1.7	CFW500C01P7T5DB20	Yes	\$910	V1G (V1)
	2	3.0	CFW080030THN1A1Z	Yes		3.0	CFW500C03P0T5DB20	Yes	\$954	V1G (V1)
	3	4.3	CFW080043THN1A1Z	Yes		4.3	CFW500C04P3T5DB20	Yes	\$1,073	V1G (V1)
	5	7.0	CFW080070THN1A1Z	Yes		7.0	CFW500C07P0T5DB20	Yes	\$1,276	V1G (V1)
	7 1/2	10	CFW080100THN1A1Z	Yes		10	CFW500C10P0T5DB20	Yes	\$1,621	V1G (V1)
	10	12	CFW080120THN1A1Z	Yes		12	CFW500C12P0T5DB20	Yes	\$1,813	V1G (V1)

Notes:

- 1) "HP" rating based on "average FLA values." Use as a guide only.
 - 2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.
 - 3) CFW08 Plus NEMA 1 drives are non-stocked items. Consult WEG for availability.
 - 4) All 575 VAC drives are non-stocked items. Consult WEG for availability.
- For other technical data please refer to WEG product manual.

CFW09 **Replace with** **CFW11 (NEMA 1) Enclosure**
NEMA 1 Enclosure

Motor Voltage	ND / VT ¹		HD / CT ¹		CFW09 Catalog Number	Braking Transistor		ND / VT ¹	HD / CT ¹	CFW11 Catalog Number	Braking Transistor	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³				Drive Amps ³	Drive Amps ³				
230 VAC	Input Power Supply: Single or Three-Phase 200–240 VAC with Dynamic Braking Transistor												
	1 1/2	6.0	1 1/2	6.0	CFW-090006TDZ	Yes		6.0	5.0	CFW110006B20N1Z	Yes	\$1,644	V1P (V1)
	2	7.0	2	7.0	CFW-090007TDZ	Yes		7.0	7.0	CFW110007B20N1Z	Yes	\$1,716	V1P (V1)
	Input Power Supply: Three-Phase 200–240 VAC with Dynamic Braking Transistor												
	3	10	3	10	CFW-090010TDZ	Yes		13	11	CFW110013T20N1Z	Yes	\$1,728	V1P (V1)
	3	13	3	13	CFW-090013TDZ	Yes		16	13	CFW110016T20N1Z	Yes	\$1,850	V1P (V1)
	5	16	5	16	CFW-090016TDZ	Yes		24	20	CFW110024T20N1Z	Yes	\$2,424	V1P (V1)
	7 1/2	24	7 1/2	24	CFW-090024TDZ	Yes		28	24	CFW110028T20N1Z	Yes	\$2,641	V1P (V1)
	10	28	10	28	CFW-090028TDZ	Yes		33.5	28	CFW110033T20N1Z	Yes	\$3,190	V1P (V1)
	15	45	15	45	CFW-090045TDZ	Yes		54	45	CFW110054T20N1Z	Yes	\$4,400	V1P (V1)
	25	68	20	54	CFW-090054TDDBZ	Yes		70	56	CFW110070T20N1Z	Yes	\$6,600	V1P (V1)
	30	86	25	70	CFW-090070TDDBZ	Yes		86	70	CFW110086T20N1Z	Yes	\$7,222	V1P (V1)
	40	105	30	86	CFW-090086TDDBZ	Yes		105	86	CFW110105T20N1Z	Yes	\$9,000	V1P (V1)
	50	130	40	105	CFW-090105TDDBZ	Yes		142	115	CFW110142T20N1DBZ	Yes	\$12,720	V1P (V1)
	50	150	50	130	CFW-090130TDDBZ	Yes		180	142	CFW110180T20N1DBZ	Yes	\$17,555	V1P (V1)
	60	174	50	142	CFW-090142TDDBZ	Yes		211	180	CFW110211T20N1DBZ	Yes	\$24,380	V1P (V1)
	Input Power Supply: Three-Phase 200–240 VAC without Dynamic Braking Transistor												
	25	68	20	54	CFW-090054TDZ	No		70	56	CFW110070T20N1Z	Yes	\$6,600	V1P (V1)
	30	86	25	70	CFW-090070TDZ	No		86	70	CFW110086T20N1Z	Yes	\$7,222	V1P (V1)
	40	105	30	86	CFW-090086TDZ	No		105	86	CFW110105T20N1Z	Yes	\$9,000	V1P (V1)
	50	130	40	105	CFW-090105TDZ	No		142	115	CFW110142T20N1Z	No	\$11,649	V1P (V1)
	50	150	50	130	CFW-090130TDZ	No		180	142	CFW110180T20N1Z	No	\$15,125	V1P (V1)
	60	174	50	142	CFW-090142TDZ	No		180	142	CFW110180T20N1Z	No	\$15,125	V1P (V1)
	60	180	60	180	CFW-090180TDZ	No		211	180	CFW110211T20N1Z	No	\$21,560	V1P (V1)
	75	240	75	240	CFW-090240TDZ	No							
460 VAC	Input Power Supply: Three-Phase 380–480 VAC with Dynamic Braking Transistor												
	2	3.6	1.5	3.6	CFW-090003TGZ	Yes		3.6	3.6	CFW110003T40N1Z	Yes	\$1,616	V1P (V1)
	2	4.0	2	4.0	CFW-090004TGZ	Yes		5.0	5.0	CFW110005T40N1Z	Yes	\$1,650	V1P (V1)
	3	5.5	3	5.5	CFW-090005TGZ	Yes		7.0	5.5	CFW110007T40N1Z	Yes	\$1,712	V1P (V1)
	5	9.0	5	9.0	CFW-090009TGZ	Yes		10	10	CFW110010T40N1Z	Yes	\$1,969	V1P (V1)
	7.5	13	7.5	13	CFW-090013TGZ	Yes		17	13.5	CFW110017T40N1Z	Yes	\$2,530	V1P (V1)
	10	16	10	16	CFW-090016TGZ	Yes		24	19	CFW110024T40N1Z	Yes	\$2,992	V1P (V1)
	15	24	15	24	CFW-090024TGZ	Yes		31	25	CFW110031T40N1Z	Yes	\$3,873	V1P (V1)
	25	36	20	30	CFW-090030TGZ	Yes		38	33	CFW110038T40N1Z	Yes	\$4,300	V1P (V1)
	30	45	25	38	CFW-090038TGDBZ	Yes		45	38	CFW110045T40N1Z	Yes	\$5,400	V1P (V1)
	40	54	30	45	CFW-090045TGDBZ	Yes		58.5	47	CFW110058T40N1Z	Yes	\$6,633	V1P (V1)
	50	70	40	60	CFW-090060TGDBZ	Yes		70.5	61	CFW110070T40N1Z	Yes	\$7,500	V1P (V1)
	60	86	50	70	CFW-090070TGDBZ	Yes		88	73	CFW110088T40N1Z	Yes	\$8,900	V1P (V1)
	75	105	60	86	CFW-090086TGDBZ	Yes		105	88	CFW110105T40N1DBZ	Yes	\$13,600	V1P (V1)
	100	130	75	105	CFW-090105TGDBZ	Yes		142	115	CFW110142T40N1DBZ	Yes	\$15,900	V1P (V1)
	150	174	100	142	CFW-090142TGDBZ	Yes		180	142	CFW110180T40N1DBZ	Yes	\$23,115	V1P (V1)

Continued on next page

CFW09  **Replace with**  **CFW11 (NEMA 1) Enclosure**
NEMA 1 Enclosure

Motor Voltage	ND / VT ¹		HD / CT ¹		CFW09 Catalog Number	Braking Transistor		ND / VT ¹		HD / CT ¹		CFW11 Catalog Number	Braking Transistor	List Price	Multiplier New (old)
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³				Drive Amps ³	Drive Amps ³						
460 VAC	Input Power Supply: Three-Phase 380–480 VAC without Dynamic Braking Transistor														
	30	45	25	30	CFW-090038TGZ	No		38	33	CFW110038T40N1Z	Yes	\$4,300	V1P (V1)		
	40	54	30	40	CFW-090045TGZ	No		45	38	CFW110045T40N1Z	Yes	\$5,400	V1P (V1)		
	50	70	40	50	CFW-090060TGZ	No		70.5	61	CFW110070T40N1Z	Yes	\$7,500	V1P (V1)		
	60	86	50	60	CFW-090070TGZ	No		70.5	61	CFW110070T40N1Z	Yes	\$7,500	V1P (V1)		
	75	105	60	75	CFW-090086TGZ	No		105	88	CFW110105T40N1Z	No	\$10,650	V1P (V1)		
	100	130	75	100	CFW-090105TGZ	No		142	115	CFW110142T40N1Z	No	\$12,500	V1P (V1)		
	125	174	100	125	CFW-090142TGZ	No		180	142	CFW110180T40N1Z	No	\$17,500	V1P (V1)		
	150	180	150	180	CFW-090180TGZ	No		211	180	CFW110211T40N1Z	No	\$21,000	V1P (V1)		
	150	211	150	211	CFW-090211TGZ	No		312	242	CFW110312T4SZ ⁵	No	\$29,366	V1P (V1)		
	200	240	200	240	CFW-090240TGZ	No		312	242	CFW110312T4SZ ⁵	No	\$29,366	V1P (V1)		
	250	312	250	312	CFW-090312TGZ	No		370	312	CFW110370T4SZ ⁵	No	\$31,314	V1P (V1)		
	300	361	300	361	CFW-090361TGZ	No		477	370	CFW110477T4SZ ⁵	No	\$41,027	V1P (V1)		
	350	450	350	450	CFW-090450TGZ	No		515	477	CFW110515T4SZ ⁵	No	\$43,970	V1P (V1)		
	400	515	400	515	CFW-090515TGZ	No		601	515	CFW110601T4SZ ⁵	No	\$50,088	V1P (V1)		
	500	600	500	600	CFW-090600TGZ	No		720	560	CFW110720T4SZ ⁵	No	\$59,330	V1P (V1)		
575 VAC ⁴	Input Power Supply: Three-Phase 500–600 VAC with Dynamic Braking Transistor														
	3	4.2	2	2.9	CFW-090002THZ	Yes		4.2	3.8	CFW110004T50N1NFZ	Yes	\$2,360	V1P (V1)		
	5	7.0	3	4.2	CFW-090004THZ	Yes		7.0	6.5	CFW110007T50N1NFZ	Yes	\$2,516	V1P (V1)		
	7 1/2	10	5	7.0	CFW-090007THZ	Yes		10	9.0	CFW110010T50N1NFZ	Yes	\$2,850	V1P (V1)		
	10	12	7 1/2	10	CFW-090010THZ	Yes		12	10	CFW110012T50N1NFZ	Yes	\$2,998	V1P (V1)		
	15	14	10	12	CFW-090012THZ	Yes		17	17	CFW110017T50N1NFZ	Yes	\$3,145	V1P (V1)		
	15	14	15	14	CFW-090014THZ	Yes		17	17	CFW110017T50N1NFZ	Yes	\$3,145	V1P (V1)		
	25	27	20	32	CFW-090022THDBZ	Yes		27	22	CFW110027T50N1NFZ	Yes	\$5,023	V1P (V1)		
	30	32	25	27	CFW-090027THDBZ	Yes		32	27	CFW110032T50N1NFZ	Yes	\$5,803	V1P (V1)		
	30	32	30	32	CFW-090032THDBZ	Yes		44	36	CFW110044T50N1NFZ	Yes	\$7,175	V1P (V1)		
	50	53	40	44	CFW-090044THDBZ	Yes		53	44	CFW110053T60N1YZ	Yes	\$12,166	V1P (V1)		
	60	63	50	53	CFW-090053THDBZ	Yes		63	53	CFW110063T60N1YZ	Yes	\$12,932	V1P (V1)		
	75	79	60	63	CFW-090063THDBZ	Yes		80	66	CFW110080T60N1YZ	Yes	\$13,979	V1P (V1)		
	100	99	75	79	CFW-090079THDBZ	Yes		107	90	CFW110107T60N1YZ	Yes	\$23,951	V1P (V1)		
	Input Power Supply: Three-Phase 500–600 VAC without Dynamic Braking Transistor														
	25	27	20	22	CFW-090022THZ	No		27	22	CFW110027T50N1NFZ	No	\$5,023	V1P (V1)		
	30	32	25	27	CFW-090027THZ	No		32	27	CFW110032T50N1NFZ	No	\$5,803	V1P (V1)		
	30	32	30	32	CFW-090032THZ	No		44	36	CFW110044T50N1NFZ	No	\$7,175	V1P (V1)		
	50	53	40	44	CFW-090044THZ	No		53	44	CFW110053T60N1NBYZ	No	\$9,887	V1P (V1)		
	60	63	50	53	CFW-090053THZ	No		63	53	CFW110063T60N1NBYZ	No	\$10,510	V1P (V1)		
	75	79	60	63	CFW-090063THZ	No		80	66	CFW110080T60N1NBYZ	No	\$11,358	V1P (V1)		
	100	99	75	79	CFW-090079THZ	No		107	90	CFW110107T60N1NBYZ	No	\$19,458	V1P (V1)		
	150	147	100	107	CFW-090107THZ	No		150	122	CFW110150T60N1NBYZ	No	\$30,080	V1P (V1)		
	200	196	150	147	CFW-090147THZ	No		216	180	CFW110216T60YZ	No	\$40,206	V1P (V1)		
	200	211	200	211	CFW-090211THZ	No		289	240	CFW110289T60YZ	No	\$48,913	V1P (V1)		
	300	315	250	247	CFW-090247THZ	No		315	289	CFW110315T60YZ	No	\$54,936	V1P (V1)		
	350	343	300	315	CFW-090315THZ	No		365	315	CFW110365T60YZ	No	\$71,061	V1P (V1)		
	400	418	350	343	CFW-090343THZ	No		435	357	CFW110435T60YZ	No	\$76,125	V1P (V1)		
500	472	400	418	CFW-090418THZ	No		584	504	CFW110584T60YZ	No	Contact Factory				
600	555	500	472	CFW-090472THZ	No		584	504	CFW110584T60YZ	No	Contact Factory				

Notes:

1) "HP" rating based on "average FLA values." Use as a guide only.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

3) CFW08 Plus NEMA 1 drives are non-stocked items. Consult WEG for availability.

4) All 575 VAC drives are non-stocked items. Consult WEG for availability. For other technical data please refer to WEG product manual.

CFW08
NEMA 4X Enclosure



Replace with

CFW500-G2
IP66/NEMA 4X Enclosure



HP	AMPS	CFW08-N4X Catalog Number		CFW500-IP66/N4X W/O DISCONNECT		CFW500-IP66/N4X WITH DISCONNECT		Multiplier New (old)	
				Catalog Number	List Price	Catalog Number	List Price		
Input Power Supply: 1 OR 3/200–240 VAC									
1/3	1.6	-	-	CFW500A01P6B2DB66G2	\$775	CFW500A01P6B2DB66DSG2	\$895	V1W (V1)	
3/4	2.6	-	-	CFW500A02P6B2DB66G2	\$800	CFW500A02P6B2DB66DSG2	\$920	V1W (V1)	
1-1/2	4.3	-	-	CFW500A04P3B2DB66G2	\$850	CFW500A04P3B2DB66DSG2	\$980	V1W (V1)	
2	7.3	CFW080073BDN4A1Z	USCFW080073B2024EON4A1Z	CFW500A07P3B2DB66G2	\$1,015	CFW500A07P3B2DB66DSG2	\$1,170	V1W (V1)	
3	10	CFW080100BDN4A1Z	USCFW080100B2024EON4A1Z	CFW500A10P0B2DB66G2	\$1,095	CFW500A10P0B2DB66DSG2	\$1,255	V1W (V1)	
Input Power Supply: 3/200–240 VAC									
5	16	CFW080160TDN4A1Z	USCFW080160T2024EON4A1Z	CFW500A16P0T2DB66G2	\$1,350	CFW500A16P0T2DB66DSG2	\$1,555	V1W (V1)	
7-1/2	22	CFW080220TDN4A1Z	USCFW080220T2024EON4A1Z	CFW500B24P0T2DB66G2	\$1,950	CFW500B24P0T2DB66DSG2	\$2,245	V1W (V1)	
10	28	CFW080280TDN4A1Z	USCFW080280T2024EON4A1Z	CFW500B28P0T2DB66G2	\$2,275	CFW500B28P0T2DB66DSG2	\$2,620	V1W (V1)	
10	33	CFW080330TDN4A1Z	USCFW080330T2024EON4A1Z	CFW500B33P0T2DB66G2	\$2,675	CFW500B33P0T2DB66DSG2	\$3,080	V1W (V1)	
Input Power Supply: 3/380–480 VAC									
1/2	1	-	-	CFW500A01P0T4DB66G2	\$950	CFW500A01P0T4DB66DSG2	\$1,095	V1W (V1)	
1	1.6	-	-	CFW500A01P6T4DB66G2	\$975	CFW500A01P6T4DB66DSG2	\$1,125	V1W (V1)	
2	2.7	CFW080027TGN4A1Z	USCFW080027T3848EON4A1Z	CFW500A02P6T4DB66G2	\$990	CFW500A02P6T4DB66DSG2	\$1,140	V1W (V1)	
3	4.3	CFW080043TGN4A1Z	USCFW080043T3848EON4A1Z	CFW500A04P3T4DB66G2	\$1,175	CFW500A04P3T4DB66DSG2	\$1,350	V1W (V1)	
5	6.5	CFW080065TGN4A1Z	USCFW080065T3848EON4A1Z	CFW500A06P5T4DB66G2	\$1,400	CFW500A06P5T4DB66DSG2	\$1,610	V1W (V1)	
7-1/2	10	CFW080100TGN4A1Z	USCFW080100T3848EON4A1Z	CFW500A10P0T4DB66G2	\$1,650	CFW500A10P0T4DB66DSG2	\$1,900	V1W (V1)	
10	14	CFW080130TGN4A1Z	USCFW080130T3848EON4A1Z	CFW500B14P0T4DB66G2	\$2,050	CFW500B14P0T4DB66DSG2	\$2,360	V1W (V1)	
10	16	CFW080160TGN4A1Z	USCFW080160T3848EON4A1Z	CFW500B16P0T4DB66G2	\$2,275	CFW500B16P0T4DB66DSG2	\$2,620	V1W (V1)	
15	24	CFW080240TGN4A1Z	USCFW080240T3848EON4A1Z	CFW500B24P0T4DB66G2	\$3,025	CFW500B24P0T4DB66DSG2	\$3,480	V1W (V1)	
25	30	CFW080300TGN4A1Z	USCFW080300T3848EON4A1Z	CFW500B31P0T4DB66G2	\$3,650	CFW500B31P0T4DB66DSG2	\$4,200	V1W (V1)	
Input Power Supply: 3/500–600 VAC									
1-1/2	1.7	CFW080017THN4A1Z	USCFW080017T5060EON4A1Z	CFW500B01P7T5DB66	\$1,590	CFW500B01P7T5DB66DS	\$1,830	V1W (V1)	
3	3	CFW080030THN4A1Z	USCFW080030T5060EON4A1Z	CFW500B03P0T5DB66	\$1,670	CFW500B03P0T5DB66DS	\$1,925	V1W (V1)	
3	4.3	CFW080043THN4A1Z	USCFW080043T5060EON4A1Z	CFW500B04P3T5DB66	\$1,890	CFW500B04P3T5DB66DS	\$2,175	V1W (V1)	
7-1/2	7	CFW080070THN4A1Z	USCFW080070T5060EON4A1Z	CFW500B07P0T5DB66	\$2,115	CFW500B07P0T5DB66DS	\$2,435	V1W (V1)	
10	10	CFW080100THN4A1Z	USCFW080100T5060EON4A1Z	CFW500B10P0T5DB66	\$2,330	CFW500B10P0T5DB66DS	\$2,680	V1W (V1)	
10	12	CFW080120THN4A1Z	USCFW080120T5060EON4A1Z	CFW500B12P0T5DB66	\$2,615	CFW500B12P0T5DB66DS	\$3,005	V1W (V1)	

**CFW700
IP20 Enclosure**



Replace with



**CFW500-G2 (IP20) or CFW11
(NEMA 1) Enclosure**

Motor Voltage	ND/VT ¹		HD/CT ¹		CFW700-IP20 Catalog Number ⁴	CFW500-G2 (IP20)			CFW11 (NEMA 1) ⁵		
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³		Catalog Number	List Price	Multiplier New (old)	Catalog Number	List Price	Multiplier New (old)
3 / 230 VAC	Input Power Supply: 1 OR 3/200–240 VAC with Dynamic Braking Transistor										
	1 1/2	6	1 1/2	5	CFW700A06P0B2DB20	CFW500B07P3B2DB20G2	\$678	V1G (V1)	CFW110006B20N1Z	\$1,644	V1P (V1)
	2	7	2	7	CFW700A07P0B2DB20	CFW500B07P3B2DB20G2	\$678	V1G (V1)	CFW110007B20N1Z	\$1,716	V1P (V1)
	Input Power Supply: 1/200–240 VAC with Dynamic Braking Transistor										
	3	10	3	10	CFW700A10P0S2DB20	CFW500B10P0B2DB20G2	\$789	V1G (V1)	CFW110010S20N1Z	\$1,812	V1P (V1)
	Input Power Supply: 3/200–240 VAC with Dynamic Braking Transistor										
	2	7.0	1 1/2	5.5	CFW700A07P0T2DB20	CFW500A07P0T2NB20G2	\$628	V1G (V1)	CFW110007T20N1Z	\$1,620	V1P (V1)
	3	10	2	8.0	CFW700A10P0T2DB20	CFW500A09P6T2NB20G2	\$773	V1G (V1)	CFW110010T20N1Z	\$1,692	V1P (V1)
	5	13	3	11	CFW700A13P0T2DB20	CFW500B16P0T2DB20G2	\$842	V1G (V1)	CFW110013T20N1Z	\$1,728	V1P (V1)
	5	16	5	13	CFW700A16P0T2DB20	CFW500B16P0T2DB20G2	\$842	V1G (V1)	CFW110016T20N1Z	\$1,850	V1P (V1)
	7 1/2	24	7 1/2	20	CFW700B24P0T2DB20	CFW500C24P0T2DB20G2	\$1,427	V1G (V1)	CFW110024T20N1Z	\$2,424	V1P (V1)
	10	28	10	24	CFW700B28P0T2DB20	CFW500D28P0T2DB20G2	\$1,777	V1G (V1)	CFW110028T20N1Z	\$2,641	V1P (V1)
	10	34	10	28	CFW700B33P5T2DB20	CFW500D33P0T2DB20G2	\$2,146	V1G (V1)	CFW110033T20N1Z	\$3,190	V1P (V1)
	15	45	15	36	CFW700C45P0T2DB20	CFW500D47P0T2DB20G2	\$2,910	V1G (V1)	CFW110045T20N1Z	\$3,641	V1P (V1)
	20	54	20	45	CFW700C54P0T2DB20	CFW500E56P0T2DB20G2	\$3,380	V1G (V1)	CFW110054T20N1Z	\$4,400	V1P (V1)
	25	70	20	56	CFW700C70P0T2DB20	CFW500F77P0T2DB20G2	\$4,150	V1G (V1)	CFW110070T20N1Z	\$6,600	V1P (V1)
	30	86	25	70	CFW700D86P0T2DBN1	CFW500F88P0T2DB20G2	\$5,200	V1G (V1)	CFW110086T20N1Z	\$7,222	V1P (V1)
	40	105	30	86	CFW700D105T2DBN1	CFW500F0105T2DB20G2	\$7,050	V1G (V1)	CFW110105T20N1Z	\$9,000	V1P (V1)
	50	142	40	115	CFW700E142T2DB20C3	CFW500G0145T2DB20G2	\$9,095	V1G (V1)	CFW110142T20N1DBZ	\$12,720	V1P (V1)
	60	180	50	142	CFW700E180T2DB20C3	CFW500G0180T2DB20G2	\$10,965	V1G (V1)	CFW110180T20N1DBZ	\$17,555	V1P (V1)
	75	211	60	180	CFW700E211T2DB20C3	CFW500G0211T2DB20G2	\$14,445	V1G (V1)	CFW110211T20N1DBZ	\$24,380	V1P (V1)
	Input Power Supply: 3/200–240 VAC without Dynamic Braking Transistor										
	50	142	40	115	CFW700E142T2NB20C3	CFW500G0145T2NB20G2	\$8,500	V1G (V1)	CFW110142T20N1Z	\$11,649	V1P (V1)
	60	180	50	142	CFW700E180T2NB20C3	CFW500G0180T2NB20G2	\$10,250	V1G (V1)	CFW110180T20N1Z	\$15,125	V1P (V1)
	75	211	60	180	CFW700E211T2NB20C3	CFW500G0211T2NB20G2	\$13,500	V1G (V1)	CFW110211T20N1Z	\$21,560	V1P (V1)
3 / 460 VAC	Input Power Supply: 3/380–480 VAC with Dynamic Braking Transistor										
	2	3.6	2	3.6	CFW700A03P6T4DB20	CFW500B04P3T4DB20G2	\$892	V1G (V1)	CFW110003T40N1Z	\$1,616	V1P (V1)
	3	5	3	5	CFW700A05P0T4DB20	CFW500B06P5T4DB20G2	\$1,067	V1G (V1)	CFW110005T40N1Z	\$1,650	V1P (V1)
	5	7	3	5.5	CFW700A07P0T4DB20	CFW500B10P0T4DB20G2	\$1,207	V1G (V1)	CFW110007T40N1Z	\$1,712	V1P (V1)
	7 1/2	10	5	10	CFW700A10P0T4DB20	CFW500B10P0T4DB20G2	\$1,207	V1G (V1)	CFW110010T40N1Z	\$1,969	V1P (V1)
	10	13.5	7 1/2	11	CFW700A13P5T4DB20	CFW500C14P0T4DB20G2	\$1,495	V1G (V1)	CFW110013T40N1Z	\$2,068	V1P (V1)
	10	17	10	13.5	CFW700B17P0T4DB20	CFW500C16P0T4DB20G2	\$1,684	V1G (V1)	CFW110017T40N1Z	\$2,530	V1P (V1)
	15	24	10	19	CFW700B24P0T4DB20	CFW500D24P0T4DB20G2	\$2,229	V1G (V1)	CFW110024T40N1Z	\$2,992	V1P (V1)
	20	31	15	25	CFW700B31P0T4DB20	CFW500D31P0T4DB20G2	\$2,783	V1G (V1)	CFW110031T40N1Z	\$3,873	V1P (V1)
	25	38	20	33	CFW700C38P0T4DB20	CFW500E39P0T4DB20G2	\$3,346	V1G (V1)	CFW110038T40N1Z	\$4,300	V1P (V1)
	30	45	25	38	CFW700C45P0T4DB20	CFW500E39P0T4DB20G2 ⁶	\$3,346	V1G (V1)	CFW110045T40N1Z	\$5,400	V1P (V1)
	40	58.5	30	47	CFW700C58P5T4DB20	CFW500E49P0T4DB20G2 ⁶	\$4,214	V1G (V1)	CFW110058T40N1Z	\$6,633	V1P (V1)
	50/60	70.5	40	61	CFW700D70P5T4DBN1	CFW500F77P0T4DB20G2	\$5,700	V1G (V1)	CFW110070T40N1Z	\$7,500	V1P (V1)
	60/75	88	50	73	CFW700D88P0T4DBN1	CFW500F88P0T4DB20G2	\$7,300	V1G (V1)	CFW110088T40N1Z	\$8,900	V1P (V1)
	75	105	75	88	CFW700E0105T4DB20C3	CFW500F0105T4DB20G2	\$8,900	V1G (V1)	CFW110105T40N1DBZ	\$13,600	V1P (V1)
	100/125	142	75	115	CFW700E0142T4DB20C3	CFW500G0142T4DB20G2	\$10,915	V1G (V1)	CFW110142T40N1DBZ	\$15,900	V1P (V1)

Notes:

1) ND (Normal Duty) / VT (Variable Torque): 110% overload for 60 seconds; HD (Heavy Duty) / CT (Constant Torque): 150% overload for 60 seconds.

2) "HP" rating based on WEG W22 motors "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) A careful consideration must be given to the application requirements when selecting the replacement drive.

5) CFW11 VFDs are direct mechanical replacement for the corresponding CFW700 VFDs. The position of control terminal blocks may differ from CFW700 to CFW11.

6) 40°C maximum ambient temperature surrounding the VFD.

**CFW700
IP20 Enclosure**



Replace with



**CFW500-G2 (IP20) or CFW11
(NEMA 1) Enclosure**

Motor Voltage	ND/VT ¹		HD/CT ¹		CFW700-IP20 Catalog Number ⁴	CFW500-G2 (IP20)			CFW11 (NEMA 1) ⁵		
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³		Catalog Number	List Price	Multiplier New (old)	Catalog Number	List Price	Multiplier New (old)
3 / 460 VAC	150	180	100	142	CFW700E0180T4DB20C3	CFW500G0180T4DB20G2	\$13,375	V1G (V1)	CFW110180T40N1DBZ	\$23,115	V1P (V1)
	175	211	150	180	CFW700E0211T4DB20C3	CFW500G0211T4DB20G2	\$15,515	V1G (V1)	CFW110211T40N1DBZ	\$27,020	V1P (V1)
	Input Power Supply: 3/380–480 VAC without Dynamic Braking Transistor										
	75	105	75	88	CFW700E0105T4NB1C3	CFW500F0105T4DB20G2	\$8,900	V1G (V1)	CFW110105T40N1Z	\$10,650	V1P (V1)
	100/125	142	75	115	CFW700E0142T4NB1C3	CFW500G0142T4NB20G2	\$10,200	V1G (V1)	CFW110142T40N1Z	\$12,500	V1P (V1)
	150	180	100	142	CFW700E0180T4NB1C3	CFW500G0180T4NB20G2	\$12,500	V1G (V1)	CFW110180T40N1Z	\$17,500	V1P (V1)
	175	211	150	180	CFW700E0211T4NB1C3	CFW500G0211T4NB20G2	\$14,500	V1G (V1)	CFW110211T40N1Z	\$21,000	V1P (V1)
3 / 575 VAC ⁷	Input Power Supply: 3/500–600 VAC with Dynamic Braking Transistor										
	2	2.9	2	2.7	CFW700B02P9T5DB20	CFW500C03P0T5DB20	\$954	V1G (V1)	CFW110002T50N1NFZ	\$2,393	V1P (V1)
	3	4.2	3	3.8	CFW700B04P2T5DB20	CFW500C04P3T5DB20	\$1,073	V1G (V1)	CFW110004T50N1NFZ	\$2,360	V1P (V1)
	7 1/2	7	5	6.5	CFW700B07P0T5DB20	CFW500C07P0T5DB20	\$1,276	V1G (V1)	CFW110007T50N1NFZ	\$2,516	V1P (V1)
	10	10	7 1/2	9	CFW700B10P0T5DB20	CFW500C10P0T5DB20	\$1,621	V1G (V1)	CFW110010T50N1NFZ	\$2,850	V1P (V1)
	10	12	10	10	CFW700B12P0T5DB20	CFW500C12P0T5DB20	\$1,813	V1G (V1)	CFW110012T50N1NFZ	\$2,998	V1P (V1)
	15	17	15	17	CFW700B17P0T5DB20	-	-	-	CFW110017T50N1NFZ	\$3,145	V1P (V1)
	20	22	20	19	CFW700C22P0T5DB20	-	-	-	CFW110022T50N1NFZ	\$4,748	V1P (V1)
	25	27	20	22	CFW700C27P0T5DB20	-	-	-	CFW110027T50N1NFZ	\$5,023	V1P (V1)
	30	32	25	27	CFW700C32P0T5DB20	-	-	-	CFW110032T50N1NFZ	\$5,803	V1P (V1)
	40	44	30	36	CFW700C44P0T5DB20	-	-	-	CFW110044T50N1NFZ	\$7,175	V1P (V1)
	50	53	40	44	CFW700E53P0T5DB20C3	-	-	-	CFW110053T60N1YZ	\$12,166	V1P (V1)
	60	63	50	53	CFW700E63P0T5DB20C3	-	-	-	CFW110063T60N1YZ	\$12,932	V1P (V1)
	75	80	75	66	CFW700E80P0T5DB20C3	-	-	-	CFW110080T60N1YZ	\$13,979	V1P (V1)
	100	107	100	90	CFW700E107T5DB20C3	-	-	-	CFW110107T60N1YZ	\$23,951	V1P (V1)
	125	125	100	107	CFW700E125T5DB20C3	-	-	-	CFW110125T60N1YZ	\$29,042	V1P (V1)
	150	150	125	122	CFW700E150T5DB20C3	-	-	-	CFW110150T60N1YZ	\$33,010	V1P (V1)
	Input Power Supply: 3/500–600 VAC without Dynamic Braking Transistor										
	20	22	20	19	CFW700D22P0T5NB1	-	-	-	CFW110022T50N1NFZ ⁶	\$4,748	V1P (V1)
	25	27	20	22	CFW700D27P0T5NB1	-	-	-	CFW110027T50N1NFZ ⁶	\$5,023	V1P (V1)
	30	32	25	27	CFW700D32P0T5NB1	-	-	-	CFW110032T50N1NFZ ⁶	\$5,803	V1P (V1)
	40	44	30	36	CFW700D44P0T5NB1	-	-	-	CFW110044T50N1NFZ ⁶	\$7,175	V1P (V1)
	50	53	40	44	CFW700E53P0T5NB20C3	-	-	-	CFW110053T60N1NBYZ	\$9,887	V1P (V1)
	60	63	50	53	CFW700E63P0T5NB20C3	-	-	-	CFW110063T60N1NBYZ	\$10,510	V1P (V1)
	75	80	75	66	CFW700E80P0T5NB20C3	-	-	-	CFW110080T60N1NBYZ	\$11,358	V1P (V1)
	100	107	100	90	CFW700E107T5NB20C3	-	-	-	CFW110107T60N1NBYZ	\$19,458	V1P (V1)
	125	125	100	107	CFW700E125T5NB20C3	-	-	-	CFW110125T60N1NBYZ	\$23,589	V1P (V1)
	150	150	125	122	CFW700E150T5NB20C3	-	-	-	CFW110150T60N1NBYZ	\$30,080	V1P (V1)

Notes:

1) ND (Normal Duty) / VT (Variable Torque): 110% overload for 60 seconds; HD (Heavy Duty) / CT (Constant Torque): 150% overload for 60 seconds.

2) "HP" rating based on WEG W22 motors "average FLA values." Use as a guide only.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.

4) A careful consideration must be given to the application requirements when selecting the replacement drive.

5) CFW11 VFDs are direct mechanical replacement for the corresponding CFW700 VFDs. The position of control terminal blocks may differ from CFW700 to CFW11.

6) Not a direct mechanical replacement for corresponding CFW700 drives.

7) All 575V drives are non-stocked items, consult WEG for availability.

CFW701 **Replace with** **CFW501 (IP20) or CFW500-G2 (IP20) or CFW11 (NEMA 1) Enclosure**

Motor Voltage	ND/VT ¹		HD/CT ¹		CFW701 (NEMA 1) Catalog Number ⁴		CFW501 (IP20) Catalog Number	CFW500-G2 (IP20) Catalog Number ⁵	CFW11 (NEMA 1) Catalog Number ⁶
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³					
3/230 VAC	Input Power Supply: 1 OR 3/200–240 VAC with Dynamic Braking Transistor								
	1 1/2	6	1 1/2	5	CFW701A06P0B2DBN1C3		-	CFW500B07P3B2DB20G2	CFW110006B20N1Z
	2	7	2	7	CFW701A07P0B2DBN1C3		-	CFW500B07P3B2DB20G2	CFW110007B20N1Z
	Input Power Supply: 1/200–240 VAC with Dynamic Braking Transistor								
	3	10	3	10	CFW701A10P0S2DBN1C3		-	CFW500B10P0B2DB20G2	CFW110010S20N1Z
	Input Power Supply: 3/200–240 VAC with Dynamic Braking Transistor								
	2	7.0	1 1/2	5.5	CFW701A07P0T2DBN1C3		CFW501A07P0T2NB20C3 ⁷	CFW500A07P0T2NB20G2	CFW110007T20N1Z
	3	10	2	8.0	CFW701A10P0T2DBN1C3		CFW501A09P6T2NB20C3 ⁷	CFW500A09P6T2NB20G2	CFW110010T20N1Z
	5	13	3	11	CFW701A13P0T2DBN1C3		CFW501A12P2T2NB20C3 ⁷	CFW500B16P0T2DB20G2	CFW110013T20N1Z
	5	16	5	13	CFW701A16P0T2DBN1C3		CFW501B16P0T2DB20C3	CFW500B16P0T2DB20G2	CFW110016T20N1Z
	7 1/2	24	7 1/2	20	CFW701B24P0T2DBN1C3		CFW501C24P0T2DB20C3	CFW500C24P0T2DB20G2	CFW110024T20N1Z
	10	28	10	24	CFW701B28P0T2DBN1C3		-	CFW500D28P0T2DB20G2	CFW110028T20N1Z
	10	34	10	28	CFW701B33P5T2DBN1C3		-	CFW500D33P0T2DB20G2	CFW110033T20N1Z
	15	45	15	36	CFW701C45P0T2DBN1C3		-	CFW500D47P0T2DB20G2	CFW110045T20N1Z
	20	54	20	45	CFW701C54P0T2DBN1C3		-	CFW500E56P0T2DB20G2	CFW110054T20N1Z
	25	70	20	56	CFW701C70P0T2DBN1C3		-	CFW500F77P0T2DB20G2	CFW110070T20N1Z
	30	86	25	70	CFW701D86P0T2DBN1C3		-	CFW500F88P0T2DB20G2	CFW110086T20N1Z
	40	105	30	86	CFW701D0105T2DBN1C3		-	CFW500F0105T2DB20G2	CFW110105T20N1Z
	Input Power Supply: 3/200–240 VAC without Dynamic Braking Transistor								
	50	142	40	115	CFW701E0142T2NBN1C3		-	CFW500G0145T2NB20G2	CFW110142T20N1Z
	60	180	50	142	CFW701E0180T2NBN1C3		-	CFW500G0180T2NB20G2	CFW110180T20N1Z
	75	211	60	180	CFW701E0211T2NBN1C3		-	CFW500G0211T2NB20G2	CFW110211T20N1Z
3/460 VAC	Input Power Supply: 3/380–480 VAC with Dynamic Braking Transistor								
	2	3.6	2	3.6	CFW701A03P6T4DBN1C3		CFW501B04P3T4DB20C3	CFW500B04P3T4DB20G2	CFW110003T40N1Z
	3	5	3	5	CFW701A05P0T4DBN1C3		CFW501B06P5T4DB20C3	CFW500B06P5T4DB20G2	CFW110005T40N1Z
	5	7	3	5.5	CFW701A07P0T4DBN1C3		CFW501B10P0T4DB20C3	CFW500B10P0T4DB20G2	CFW110007T40N1Z
	7 1/2	10	5	10	CFW701A10P0T4DBN1C3		CFW501B10P0T4DB20C3	CFW500B10P0T4DB20G2	CFW110010T40N1Z
	10	13.5	7 1/2	11	CFW701A13P5T4DBN1C3		CFW501C14P0T4DB20C2	CFW500C14P0T4DB20G2	CFW110013T40N1Z
	10	17	10	13.5	CFW701B17P0T4DBN1C3		CFW501C16P0T4DB20C2	CFW500C16P0T4DB20G2	CFW110017T40N1Z
	15	24	10	19	CFW701B24P0T4DBN1C3		CFW501D24P0T4DB20C3	CFW500D24P0T4DB20G2	CFW110024T40N1Z
	20	31	15	25	CFW701B31P0T4DBN1C3		CFW501D31P0T4DB20C3	CFW500D31P0T4DB20G2	CFW110031T40N1Z
	25	38	20	33	CFW701C38P0T4DBN1C3		-	CFW500E39P0T4DB20G2	CFW110038T40N1Z
	30	45	25	38	CFW701C45P0T4DBN1C3		-	CFW500E39P0T4DB20G2 ⁸	CFW110045T40N1Z
	40	58.5	30	47	CFW701C58P5T4DBN1C3		-	CFW500E49P0T4DB20G2 ⁸	CFW110058T40N1Z
	50/60	70.5	40	61	CFW701D70P5T4DBN1C3		-	CFW500F77P0T4DB20G2	CFW110070T40N1Z
	60/75	88	50	73	CFW701D88P0T4DBN1C3		-	CFW500F88P0T4DB20G2	CFW110088T40N1Z

Notes:

- 1) ND (Normal Duty) / VT (Variable Torque): 110% overload for 60 seconds; HD (Heavy Duty) / CT (Constant Torque): 150% overload for 60 seconds.
- 2) "HP" rating based on WEG W22 motors "average FLA values." Use as a guide only.
- 3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.
- 4) A careful consideration must be given to the application requirements when selecting the replacement drive.
- 5) The CFW500 (230 VAC and 460 VAC) is General Purpose/Machinery/Industrial drive with BACnet communication capability. The CFW500 – 575 VAC drives do not have BACnet communication.
- 6) The CFW11 VFDs are direct mechanical replacement for the corresponding CFW701 VFDs. The position of control terminal blocks may differ from CFW701 to CFW11. The CFW11 is standard industrial drive with BACnet communication capability with special FM.
- 7) These drives do not have built in dynamic braking transistor.
- 8) 40°C maximum ambient temperature surrounding the VFD.

CFW701  **Replace with**  **CFW501 (IP20) or CFW500-G2 (IP20) or CFW11 (NEMA 1) Enclosure**

Motor Voltage	ND/VT ¹		HD/CT ¹		CFW701 (NEMA 1) Catalog Number ⁴		CFW501 (IP20) Catalog Number	CFW500-G2 (IP20) Catalog Number ⁵	CFW11 (NEMA 1) Catalog Number ⁶
	Motor HP ²	Drive Amps ³	Motor HP ²	Drive Amps ³					
3/460 VAC	Input Power Supply: 3/380–480 VAC without Dynamic Braking Transistor								
	75	105	75	88	CFW701E0105T4NBN1C3		-	CFW500F0105T4DB20G2	CFW110105T40N1Z
	100/125	142	75	115	CFW701E0142T4NBN1C3		-	CFW500G0142T4NB20G2	CFW110142T40N1Z
	150	180	100	142	CFW701E0180T4NBN1C3		-	CFW500G0180T4NB20G2	CFW110180T40N1Z
	175	211	150	180	CFW701E0211T4NBN1C3		-	CFW500G0211T4NB20G2	CFW110211T40N1Z
3/575 VAC ⁸	Input Power Supply: 3/500–600 VAC with Dynamic Braking Transistor								
	2	2.9	2	2.7	CFW701B02P9T5DBN1C3		-	CFW500C03P0T5DB20	CFW110002T50N1NFZ
	3	4.2	3	3.8	CFW701B04P2T5DBN1C3		-	CFW500C04P3T5DB20	CFW110004T50N1NFZ
	7 1/2	7	5	6.5	CFW701B07P0T5DBN1C3		-	CFW500C07P0T5DB20	CFW110007T50N1NFZ
	10	10	7 1/2	9	CFW701B10P0T5DBN1C3		-	CFW500C10P0T5DB20	CFW110010T50N1NFZ
	10	12	10	10	CFW701B12P0T5DBN1C3		-	CFW500C12P0T5DB20	CFW110012T50N1NFZ
	15	17	15	17	CFW701B17P0T5DBN1C3		-	-	CFW110017T50N1NFZ
	Input Power Supply: 3/500–600 VAC without Dynamic Braking Transistor								
	20	22	20	19	CFW701D22P0T5NBN1C3		-	-	CFW110022T50N1NFZ ⁷
	25	27	20	22	CFW701D27P0T5NBN1C3		-	-	CFW110027T50N1NFZ ⁷
	30	32	25	27	CFW701D32P0T5NBN1C3		-	-	CFW110032T50N1NFZ ⁷
	40	44	30	36	CFW701D44P0T5NBN1C3		-	-	CFW110044T50N1NFZ ⁷
	50	53	40	44	CFW701E53P0T5NBN1C3		-	-	CFW110053T60N1NBYZ
	60	63	50	53	CFW701E63P0T5NBN1C3		-	-	CFW110063T60N1NBYZ
	75	80	75	66	CFW701E80P0T5NBN1C3		-	-	CFW110080T60N1NBYZ
	100	107	100	90	CFW701E0107T5NBN1C3		-	-	CFW110107T60N1NBYZ
	125	125	100	107	CFW701E0125T5NBN1C3		-	-	CFW110125T60N1NBYZ
	150	150	125	122	CFW701E0150T5NBN1C3		-	-	CFW110150T60N1NBYZ

Notes:

- 1) ND (Normal Duty) / VT (Variable Torque): 110% overload for 60 seconds; HD (Heavy Duty) / CT (Constant Torque): 150% overload for 60 seconds.
- 2) "HP" rating based on WEG W22 motors "average FLA values." Use as a guide only.
- 3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of drive.
- 4) A careful consideration must be given to the application requirements when selecting the replacement drive.
- 5) The CFW500 (230 VAC and 460 VAC) is General Purpose/Machinery/Industrial drive with BACnet communication capability. The CFW500 – 575 VAC drives do not have BACnet communication.
- 6) The CFW11 VFDs are direct mechanical replacement for the corresponding CFW701 VFDs. The position of control terminal blocks may differ from CFW701 to CFW11. The CFW11 is standard industrial drive with BACnet communication capability with special FM.
- 7) Not a direct mechanical replacement for corresponding CF-W701 drives.
- 8) All 575V drives are non-stocked items, consult WEG for availability.

SSW06 Soft Starters

SSW900 Soft Starters

Motor Voltage	Motor HP ¹	Starter Amps ²	Duty Cycle	SSW06 Catalog Number		Motor HP ¹	Starter Amps ²	Duty Cycle	SSW900 Catalog Number	List Price	Multiplier New (old)
Three-Phase / 230 VAC	Input Power Supply: Three-Phase 200–240 VAC										
	3	10	300%, 30 sec., 10 starts/hr, 55°C	SSW060010T2257ESZ		3	10	300%, 30 sec., 10 starts/hr, 55°C	SSW900A0010T5E2B	\$1,386	E19 (E1)
	5	16		SSW060016T2257ESZ		5	17		SSW900A0017T5E2B	\$1,429	E19 (E1)
	7.5	23		SSW060023T2257ESZ		7.5	24		SSW900A0024T5E2B	\$1,572	E19 (E1)
	10	30		SSW060030T2257ESZ		10	30		SSW900A0030T5E2B	\$1,703	E19 (E1)
	15	45		SSW060045T2257ESZ		15	45		SSW900B0045T5E2B ³	\$1,976	E19 (E1)
	20	60		SSW060060T2257ESZ		20	61		SSW900B0061T5E2B ³	\$2,181	E19 (E1)
	25 / 30	85		SSW060085T2257ESZ		25 / 30	85		SSW900B0085T5E2B ³	\$2,771	E19 (E1)
	-	-		-		40	105		SSW900B0105T5E2B ³	\$3,160	E19 (E1)
	50	130		SSW060130T2257ESZ		50	130		SSW900C0130T5E2B ³	\$3,547	E19 (E1)
	60	170		SSW060170T2257ESZ		60	171		SSW900C0171T5E2B ³	\$4,270	E19 (E1)
	75	205		SSW060205T2257ESZ		75	200		SSW900C0200T5E2B ³	\$5,354	E19 (E1)
	100	255		SSW060255T2257ESZ		100	255		SSW900D0255T5E3B	\$7,188	E19 (E1)
	125	312		SSW060312T2257ESZ		125	312		SSW900D0312T5E3B	\$7,896	E19 (E1)
	150	365		SSW060365T2257ESZ		150	365		SSW900D0365T5E3B	\$8,721	E19 (E1)
	150	412		SSW060412T2257ESZ		150	412		SSW900D0412T5E3B	\$9,465	E19 (E1)
	200	480		SSW060480T2257ESZ		200	480	SSW900E0480T5E3B ⁴	\$11,730	E19 (E1)	
	250	604		SSW060604T2257ESZ		250	604	SSW900E0604T5E3B ⁴	\$13,082	E19 (E1)	
	250	670		SSW060670T2257ESZ		250	670	SSW900E0670T5E3B ⁴	\$14,878	E19 (E1)	
	350	820		SSW060820T2257ESZ		350	820	SSW900F0820T5E3B ⁴	\$17,573	E19 (E1)	
	400	950	300%, 30 sec., 5 starts/hr, 40°C	SSW060950T2257ESH1Z	400	950	SSW900F0950T5E3B	\$26,592	E19 (E1)		
	450	1100		SSW061100T2257ESH2Z	450	1100	SSW900G1100T5E3B	\$33,351	E19 (E1)		
	550	1400		SSW061400T2257ESH2Z	550	1400	SSW900G1400T5E3B	\$42,863	E19 (E1)		
Three-Phase / 460 VAC	Input Power Supply: Three-Phase 460 VAC										
	5	10	300%, 30 sec., 10 starts/hr, 55°C	SSW060010T2257ESZ		5	10	300%, 30 sec., 10 starts/hr, 55°C	SSW900A0010T5E2B	\$1,386	E19 (E1)
	10	16		SSW060016T2257ESZ		10	17		SSW900A0017T5E2B	\$1,429	E19 (E1)
	15	23		SSW060023T2257ESZ		15	24		SSW900A0024T5E2B	\$1,572	E19 (E1)
	20	30		SSW060030T2257ESZ		20	30		SSW900A0030T5E2B	\$1,703	E19 (E1)
	30	45		SSW060045T2257ESZ		30	45		SSW900B0045T5E2B ³	\$1,976	E19 (E1)
	40	60		SSW060060T2257ESZ		40	61		SSW900B0061T5E2B ³	\$2,181	E19 (E1)
	50/60/75	85		SSW060085T2257ESZ		50/60/75	85		SSW900B0085T5E2B ³	\$2,771	E19 (E1)
	-	-		-		75	105		SSW900B0105T5E2B ³	\$3,160	E19 (E1)
	100	130		SSW060130T2257ESZ		100	130		SSW900C0130T5E2B ³	\$3,547	E19 (E1)
	125	170		SSW060170T2257ESZ		125	171		SSW900C0171T5E2B ³	\$4,270	E19 (E1)
	150	205		SSW060205T2257ESZ		150	200		SSW900C0200T5E2B ³	\$5,354	E19 (E1)
	200	255		SSW060255T2257ESZ		200	255		SSW900D0255T5E3B	\$7,188	E19 (E1)
	250	312		SSW060312T2257ESZ		250	312		SSW900D0312T5E3B	\$7,896	E19 (E1)
	300	365		SSW060365T2257ESZ		300	365		SSW900D0365T5E3B	\$8,721	E19 (E1)
	350	412		SSW060412T2257ESZ		350	412		SSW900D0412T5E3B	\$9,465	E19 (E1)
	400	480		SSW060480T2257ESZ		400	480	SSW900E0480T5E3B ⁴	\$11,730	E19 (E1)	
	500	604		SSW060604T2257ESZ		500	604	SSW900E0604T5E3B ⁴	\$13,082	E19 (E1)	
	550	670		SSW060670T2257ESZ		600	670	SSW900E0670T5E3B ⁴	\$14,878	E19 (E1)	
	700	820		SSW060820T2257ESZ		700	820	SSW900F0820T5E3B ⁴	\$17,573	E19 (E1)	
	800	950	300%, 30 sec., 5 starts/hr, 40°C	SSW060950T2257ESH1Z	800	950	SSW900F0950T5E3B	\$26,592	E19 (E1)		
	900	1100		SSW061100T2257ESH2Z	900	1100	SSW900G1100T5E3B	\$33,351	E19 (E1)		
	1200	1400		SSW061400T2257ESH2Z	1200	1400	SSW900G1400T5E3B	\$42,863	E19 (E1)		

Notes:

1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.

2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of the starter.

3) Must be used with ventilation kit.

4) Please note duty cycle and ambient temperature rating difference between SSW06 and SSW900 models. The SSW06 is rated for 300%, 30 sec., 10 starts/hr at 55°C and SSW900 is rated for 300%, 30 sec., 5 starts/hr at 40°C.

SSW06 Soft Starters

SSW900 Soft Starters

Motor Voltage	Motor HP ¹	Starter Amps ²	Duty Cycle	SSW06 Catalog Number		Motor HP ¹	Starter Amps ²	Duty Cycle	SSW900 Catalog Number	List Price	Multiplier New (old)
Three-Phase / 575 VAC	Input Power Supply: Three-Phase 575 VAC										
	7.5	10	300%, 30 sec., 10 starts/hr, 55°C	SSW060010T2257ESZ		7.5	10	300%, 30 sec., 10 starts/hr, 55°C	SSW900A0010T5E2B	\$1,386	E19 (E1)
	15	16		SSW060016T2257ESZ		15	17		SSW900A0017T5E2B	\$1,429	E19 (E1)
	20	23		SSW060023T2257ESZ		20	24		SSW900A0024T5E2B	\$1,572	E19 (E1)
	30	30		SSW060030T2257ESZ		30	30		SSW900A0030T5E2B	\$1,703	E19 (E1)
	40	45		SSW060045T2257ESZ		40	45		SSW900B0045T5E2B ³	\$1,976	E19 (E1)
	60	60		SSW060060T2257ESZ		60	61		SSW900B0061T5E2B ³	\$2,181	E19 (E1)
	75	85		SSW060085T2257ESZ		75	85		SSW900B0085T5E2B ³	\$2,771	E19 (E1)
	-	-		-		100	105		SSW900B0105T5E2B ³	\$3,160	E19 (E1)
	125	130		SSW060130T2257ESZ		125	130		SSW900C0130T5E2B ³	\$3,547	E19 (E1)
	150	170		SSW060170T2257ESZ		150	171		SSW900C0171T5E2B ³	\$4,270	E19 (E1)
	200	205		SSW060205T2257ESZ		200	200		SSW900C0200T5E2B ³	\$5,354	E19 (E1)
	250	255		SSW060255T2257ESZ		250	255		SSW900D0255T5E3B	\$7,188	E19 (E1)
	300	312		SSW060312T2257ESZ		300	312		SSW900D0312T5E3B	\$7,896	E19 (E1)
	350	365		SSW060365T2257ESZ		350	365		SSW900D0365T5E3B	\$8,721	E19 (E1)
	450	412		SSW060412T2257ESZ		450	412		SSW900D0412T5E3B	\$9,465	E19 (E1)
	500	480	300%, 30 sec., 5 starts/hr, 40°C	SSW060480T2257ESZ		500	480	SSW900E0480T5E3B ⁵	\$11,730	E19 (E1)	
	650	604		SSW060604T2257ESZ		650	604	SSW900E0604T5E3B ⁵	\$13,082	E19 (E1)	
	750	670		SSW060670T2257ESZ		750	670	SSW900E0670T5E3B ⁵	\$14,878	E19 (E1)	
	850	820		SSW060820T2257ESZ		850	820	SSW900F0820T5E3B ⁵	\$17,573	E19 (E1)	
	1050	950		SSW060950T2257ESH1Z		1050	950	SSW900F0950T5E3B	\$26,592	E19 (E1)	
	1200	1100		SSW061100T2257ESH2Z		1200	1100	SSW900G1100T5E3B	\$33,351	E19 (E1)	
1500	1400	SSW061400T2257ESH2Z			1500	1400	SSW900G1400T5E3B	\$42,863	E19 (E1)		
Three-Phase / 690 VAC	Input Power Supply: Three-Phase 690 VAC										
	50	45	300%, 30 sec., 10 starts/hr, 55°C	SSW060045T5769ESZ		-	-	-	-	-	-
	75	60		SSW060060T5769ESZ		-	-	-	-	-	-
	100	85		SSW060085T5769ESZ		-	-	-	-	-	-
	150	130		SSW060130T5769ESZ		150	130	300%, 30 sec., 10 starts/hr, 55°C	SSW900C0130T6E2B ³	\$4,529	E19 (E1)
	200	170		SSW060170T5769ESZ		200	171		SSW900C0171T6E2B ³	\$5,705	E19 (E1)
	250	205		SSW060205T5769ESZ		250	200		SSW900C0200T6E2B ³	\$7,172	E19 (E1)
	300	255		SSW060255T5769ESZ		300	255		SSW900D0255T6E3B	\$8,242	E19 (E1)
	400	312		SSW060312T5769ESZ		400	312		SSW900D0312T6E3B	\$8,948	E19 (E1)
	450	365		SSW060365T5769ESZ		450	365		SSW900D0365T6E3B	\$9,299	E19 (E1)
	550	412		SSW060412T5769ESZ		550	412		SSW900D0412T6E3B	\$11,181	E19 (E1)
	600	480	SSW060480T5769ESZ		600	480	300%, 30 sec., 5 starts/hr, 40°C	SSW900E0480T6E3B ⁵	\$13,841	E19 (E1)	
	750	604	SSW060604T5769ESZ		750	604		SSW900E0604T6E3B ⁵	\$15,439	E19 (E1)	
	850	670	SSW060670T5769ESZ		850	670		SSW900E0670T6E3B ⁵	\$14,932	E19 (E1)	
	1000	820	SSW060820T5769ESZ		1000	820		SSW900F0820T6E3B ⁵	\$17,646	E19 (E1)	
	1200	950	SSW060950T5769ESH1Z		1200	950		SSW900F0950T6E3B	\$28,794	E19 (E1)	
	1400	1100	SSW061100T5769ESH2Z		1400	1100		SSW900G1100T6E3B	\$34,673	E19 (E1)	
	1700	1400	SSW061400T5769ESH2Z		1700	1400		SSW900G1400T6E3B	\$44,509	E19 (E1)	

Notes:

- 1) "HP" rating based on FLA values from WEG W22, 2- and 4-pole, NEMA premium motors.
- 2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to nominal amps of the starter.
- 3) Must be used with ventilation kit.
- 4) The 690 VAC Soft Starters are not "UL Listed" and are non-stocked items. Please consult WEG for availability.
- 5) Please note duty cycle and ambient temperature rating difference between SSW06 and SSW900 models. The SSW06 is rated for 300%, 30 sec., 10 starts/hr at 55°C and SSW900 is rated for 300%, 30 sec., 5 starts/hr at 40°C.



Revision Control

Revision	Major Changes
US300.01.2024	1. CFW500-G1, CFW700 and CFW701 Drives removed. 2. CFW320 and CFW900 Drives added. 3. Pump Genius HMIs added. 4. Line and load reactors replaced with New Lines of Open Style and enclosed Style Line and Load Reactors. 5. Digital solution offering (MF1) revised with next generation products and better list pricing.
US300.07.2024	Minor changes.
US300.01.2025	Removed CFW300 and made some minor corrections.
US300.07.2025	Added CFW900 Extended HP.
US300.03.2026	EDP11 Series Expanded

INDEX
WARRANTY INFO
CFW100
CFW320
CFW500 G2
CFW11
CFW900
CFW11M
CFW501
PUMP GENIUS
REACTORS
SSW05
SSW07
SSW900
SSW7000
EDP11
GPH2
APS9
MEM





WEG Drives & Controls

www.weg.net

automationtech@weg.net