

WEG Standard Product Catalog

Variable Frequency Drives | Parts | Modifications



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(for complete line of products see WEG's Automation Catalogs)

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CFW300

The CFW300 variable frequency drive is a high-performance VFD for three-phase induction motors. It is ideal for applications on machines or equipment that require precise control with easy setup and operation.

The CFW300 features a compact size with contactor-style electrical connections (top in / bottom out). The VFD's performance can be scaled to match the application by selecting WEG vector control (VVW) or scalar control (V/F). The CFW300 includes 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 CFW300 a flexible and cost effective solution for your variable speed requirements.



Standard Features

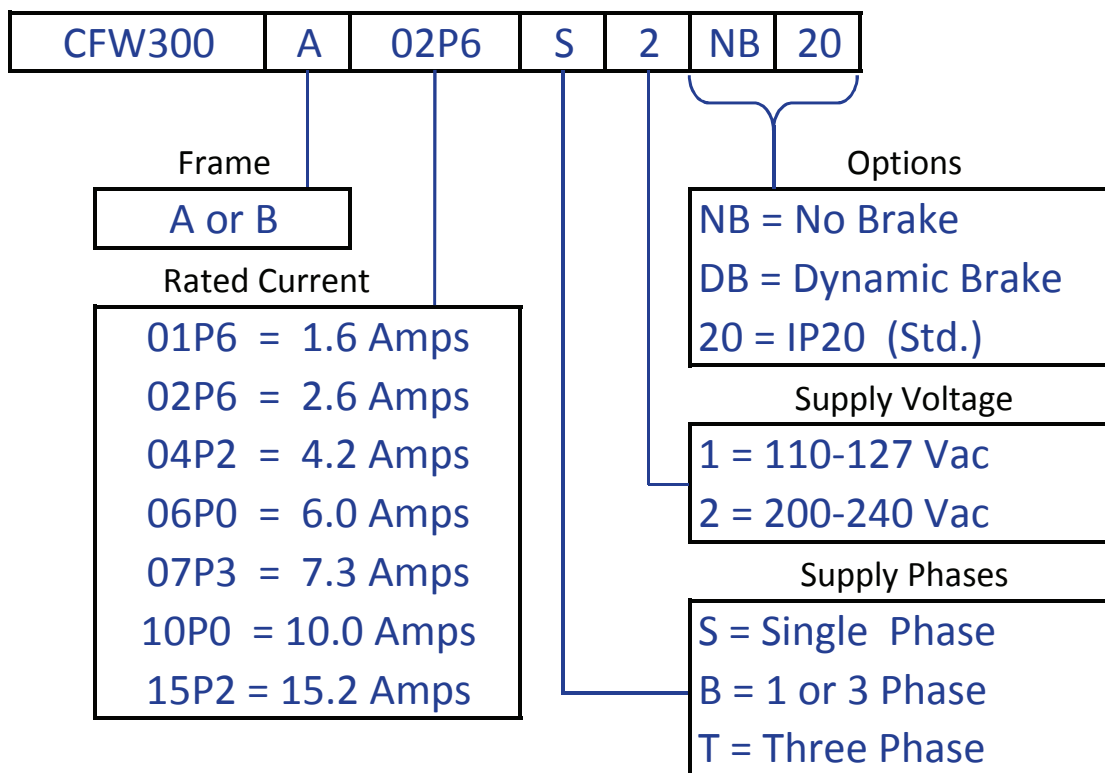
- Single and three-phase voltage supply
- Din rail or surface mounting with screws
- Voltage range: • 110-127 Vac and 200-240 Vac for single-phase models
- 200-240 Vac for three-phase models
- Current / Power range: up to 15.2 Amps / 3.7 kW (5 HP)
- Control mode: Scalar (V/Hz) or Voltage Vector (VVW)
- Switching frequency: 2.5, 5, 10 or 15kHz
- Overload capacity: 150% for 60 sec. every 10min, 200% for 3 sec. every 10min.
- Degree of protection: IP20
- Operating temperature: 14 • 122°F (50°C); up to 140°F (60°C) with current derating (2% per 1°C above 50°C)
- Altitude: 0 • 3300 ft. (1000m); up to 13,200 ft. (4000m) with current derating (1% per 100m above 1000m)
- Humidity: 5 to 95% non-condensing
- Integrated brake chopper for frame size B (not available for size A)
- Local keypad supplied as standard

VFDs and
Enclosed Motor
Controls

Applications

- | | |
|---------------------|---------------------|
| • Centrifugal pumps | • Conveyors |
| • Fans / Blowers | • Roller Tables |
| • Blenders / Mixers | • Granulators |
| • Centrifuges | • Commercial Dryers |
| • Compressors | • Rotary Filters |

CFW300 Catalog Number Sequence





IP20 Enclosure

CFW300

Motor Voltage	Motor HP ¹	Drive Output Amps ²	Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) HxWxD	Approx. Weight Lbs. (kg)	List Price	Multiplier Symbol
230 Vac / 3 Phase	Input Power Supply: Single-Phase 110-127 Vac								
	1/4 or 1/3	1.6	CFW300A01P6S1NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$361	V1
	3/4	2.6	CFW300A02P6S1NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$394	
	1	4.2	CFW300A04P2S1NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$420	
	2	6.0	CFW300A06P0S1NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$507	
	Input Power Supply: Single-Phase 200-240 Vac								
	1/4 or 1/3	1.6	CFW300A01P6S2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$323	V1
	3/4	2.6	CFW300A02P6S2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$348	
	1	4.2	CFW300A04P2S2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$371	
	2	6.0	CFW300A06P0S2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$461	
	2	7.3	CFW300A07P3S2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$543	
	3	10.0	CFW300B10P0B2DB20 ³	Yes	B	8.1 x 2.8 x 6.3	3.0 (1.4)	\$648	
	Input Power Supply: Three-Phase 200-240 Vac								
	1/4 or 1/3	1.6	CFW300A01P6T2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$343	V1
	3/4	2.6	CFW300A02P6T2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$376	
	1	4.2	CFW300A04P2T2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$399	
	2	6.0	CFW300A06P0T2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$484	
	2	7.3	CFW300A07P3T2NB20	No	A	6.3 x 2.8 x 5.9	2.0 (0.9)	\$571	
	3	10.0	CFW300B10P0B2DB20 ³	Yes	B	8.1 x 2.8 x 6.3	3.0 (1.4)	\$648	
	5	15.2	CFW300B15P2T2DB20	Yes	B	8.1 x 2.8 x 6.3	3.0 (1.4)	\$792	

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) CFW300B10P0B2DB20 is capable of Single-Phase input without derating.
 For other technical data please refer to WEG product manual.

Options and Accessories¹

Type	CATALOG NUMBER	Description	Approx. Wt. (lbs.)	List Price	Multiplier Symbol
I/O ²	CFW300-IOAR	I/O Expansion Module; 1 AI, 1 AO, 3 DOR, +10vdc	0.2	\$141	V1
I/O ²	CFW300-IODR	I/O Expansion Module; 4 DI, 3 DOR	0.2	\$108	
I/O ²	CFW300-IOAENC	I/O and Encoder Module; 1 AI, 2 AO, +10vdc, 1 Incremental Encoder Input, +5vdc	0.2	\$143	
I/O ²	CFW300-IOADR	I/O Expansion Module; 1 NTC Sensor Input, 3 DOR	0.2	\$207	
RS485 Card	CFW300-CRS485	RS-485 Module; 1 RS-485 Input (Modbus-RTU), 1 Mini USB for Remote Keypad	0.2	\$82	
USB Card	CFW300-CUSB	USB Communication Module w/ 2-meter Cable; 1 Mini USB	0.2	\$87	
RS232 Card	CFW300-CRS232	RS-232 Communication Module (Modbus-RTU); 1 RS232	0.2	\$82	
CANopen Card	CFW300-CCAN	CANopen/DeviceNet Comm. Module; 1 CAN/DeviceNet, External 24vdc Power	0.2	\$100	
Profibus DP Card	CFW300-CPDP	Profibus DP Communication Module; 1 Profibus DP 9-Pin Connector	0.2	\$294	
Remote Keypad	CFW300-KHMIR	Remote Keypad; Includes CFW300-CRS485 and 3-meter Cable	0.4	\$256	
Flash Memory Module	CFW300-MMF	Flash Memory Module for saving program and parameters to/from drive.	0.2	\$210	
RFI Filter Kit – Fr. A	CFW300-KFA	CFW300 RFI Filter Kit – Frame Size A - SINGLE PHASE INPUT MODELS ONLY	0.3	\$90	
RFI Filter Kit – Fr. B	CFW300-KFB	CFW300 RFI Filter Kit – Frame Size B - SINGLE PHASE INPUT MODELS ONLY	0.3	\$105	

Notes:

- 1) Up to Qty. (1) I/O Expansion Module plus Qty. (1) Communication Module can be added to the CFW300 VFD.
 2) Option card I/O is in addition to the standard CFW300 I/O which includes: 4 DI, 1 AI, 1 DOR.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

A-325

CFW300

Option Card and I/O Table

CFW 300 Option Modules	DI ¹	AI	AO	DOR	Encoder	Infrared	RS485	RS232	USB	CANopen	Profibus-DP
CFW300-IOAR	4	1	1	3							
CFW300-IODR	4 + 4			3							
CFW300-IOAENC	4	1	2		1						
CFW300-IOADR	4	1		3		1					
CFW300-CRS485	4						1				
CFW300-CRS232	4							1			
CFW300-CUSB	4								1		
CFW300-CCAN	4									1	
CFW300-CPDP											1

Notes: 1) CFW300 Drive includes 4DI as standard. Option Modules provide suplimental I/O as shown in this table.

Dimensions

Rear view

Front view

Side View



VFDs and
Enclosed Motor
Controls

Frame Size IP20	Height in. (mm)	Width in. (mm)	Depth in. (mm)	Weight Lbs. (kg)
A (w/o RFI)	6.3 (157.9)	2.8 (70.0)	5.9 (148.4)	2.0 (0.9)
A (w/RFI)	7.8 (196.0)	2.8 (70.0)	7.5 (190.1)	2.9 (1.3)
B (w/o RFI)	8.1 (198.9)	2.8 (70.0)	6.3 (158.4)	3.0 (1.4)
B (w/ RFI)	9.4 (237.0)	2.8 (70.0)	7.9 (200.1)	4.0 (1.8)

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit [http:// www.weg.net](http://www.weg.net)

Technical Data

Power Supply	Voltage	Single Phase	110-127 Vac (+10%, -15%)
		Single Phase or Three Phase	200-240 Vac (+10%, -15%)
	Frequency	50 / 60Hz +/- 2Hz	
Output	Voltage	0-230 Vac Three Phase	
	Frequency	0-400 Hz, 0.1Hz Resolution	
Control	Control Modes	Volts per Hertz (Scalar)	
		Sensorless Voltage Vector	
		Sinusoidal PWM (Space Vector Modulation)	
	Switching Frequency	2.5, 5, 10 or 15kHz	
	Frequency Range	0-400 Hz	
	Overload Capacity	150% for 60 seconds, repeatable every 10 min.	
Control Inputs	4 programmable isolated digital inputs, NPN or 24Vdc logic (PNP)		
	1 programmable differential analog input; programmable for current or voltage		
Control Outputs	1 programmable relay output: One NO/NC (Form C) 250 Vac / 0.5 A		
Communication	Field Bus	Optional modules for RS-485, RS-232, CANopen, DeviceNet, Profibus-DP, USB	
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	
Enclosure	Degree of Protection	IP20	
	Mounting	Surface mounting with screws or DIN rail mounting	
Ambient	Temperature	14 - 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	0-3300 ft (1000m) Up to 13,200 ft (4000m) with 1% / 330ft (100m) output current derating	
Regulatory Conformance	EMC Directive 89 / 336 / EEC	Electromagnetic compatibility – Industrial Environment EMC Emission and Immunity with optional filter	
	ENC61800-2, 3, 5-1 ENC61800-4-2, 3, 4, 5, 6		
	LVD 73/23/EEC	Low Voltage Directive	
	UL 508C, UL 840, UL 50	Electrical Equipment standards	
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 LCD display and 4 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), fault and status messages		

CFW500

Developed for fast commissioning, the CFW500 VFD is perfect for machines. Extremely compact and cost-effective, it meets the needs of machine manufacturers, system integrators, panel installers and users. 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.

Standard Features

- Compatible - wide range of accessories
- Single and Three phase input voltage
- 200 - 240v, 380 - 480v or 500 - 600v in put range
- v/hz and sensorless vector control
- Flexible - application functions
- Robust - 150% overload for one minute
- Efficient - provides optimal speed for production
- Reliable - 100% are tested with rated load at the factory
- Integrable - Fieldbus networks



Applications

- | | |
|------------------------|---------------------|
| • Centrifugal pumps | • Commercial dryers |
| • Compressors | • Extruders |
| • Process dosing pumps | • Conveyor belts |
| • Fans/ventilators | • Elevators |
| • Mixers/blenders | • General machinery |

CFW500 Catalog Number Sequence

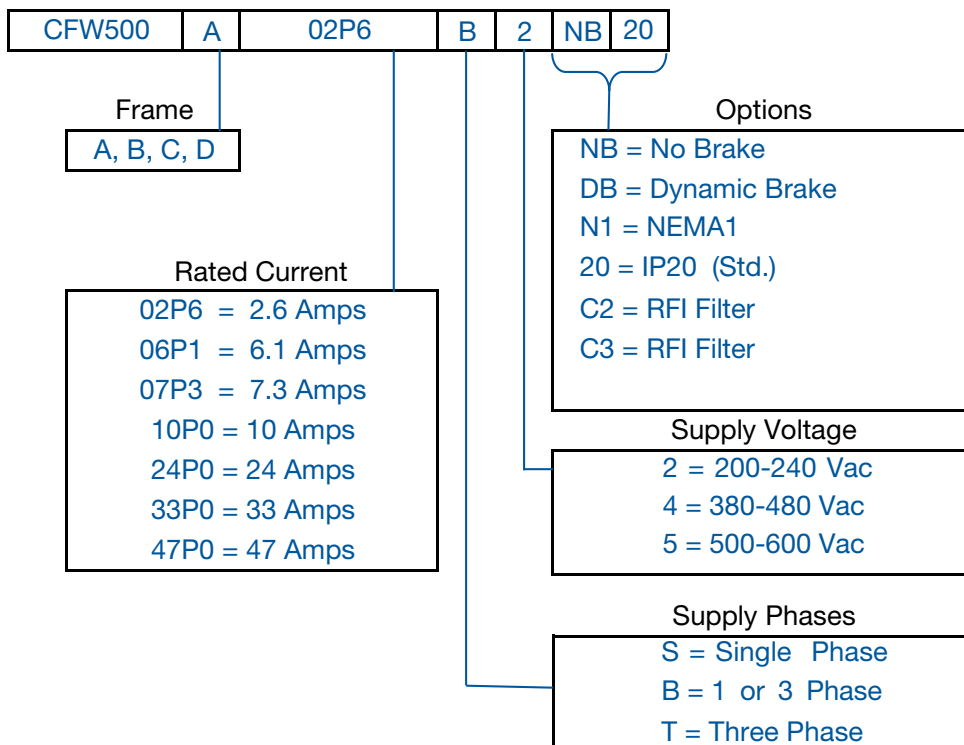


Table intended as reference and not to create part numbers.

CFW500

IP20 Finger Safe Enclosure

Motor Voltage	Motor HP ¹	Drive Amps ²	Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) HxWxD	Approx. Weight (lbs.)	List Price	Multiplier
230 Vac/3 Phase	Input Power Supply: Single-Phase 200-240 Vac								
	1/3	1.6	CFW500A01P6S2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$451	V1
	3/4	2.6	CFW500A02P6S2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$463	V1
	1 1/2	4.3	CFW500A04P3S2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$499	V1
	2	7.3	CFW500A07P0S2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$633	V1
	Input Power Supply: Single or Three-Phase 200-240 Vac								
	1/3	1.6	CFW500A01P6B2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$456	V1
	3/4	2.6	CFW500A02P6B2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$467	V1
	1 1/2	4.3	CFW500A04P3B2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$506	V1
	2	7.3	CFW500B07P3B2DB20	Yes	B	7.9 x 4.0 x 6.3	2.6	\$678	V1
	3	10.0	CFW500B10P0B2DB20	Yes	B	7.9 x 4.0 x 6.3	2.6	\$789	V1
	Input Power Supply: Three-Phase 200-240 Vac								
	2	7.0	CFW500A07P0T2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$628	V1
	3	9.6	CFW500A09P6T2NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$773	V1
	5	16	CFW500B16P0T2DB20	Yes	B	7.9 x 4.0 x 6.3	2.6	\$842	V1
	7 1/2	24	CFW500C24P0T2DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,427	V1
	10	28	CFW500D28P0T2DB20	Yes	D	12.1 x 7.1 x 6.6	9.5	\$1,777	V1
	10	33	CFW500D33P0T2DB20	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,146	V1
	15	47	CFW500D47P0T2DB20	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,910	V1
	20	56	CFW500E56P0T2DB20	Yes	E	13.8 x 8.7 x 7.6	22.1	\$3,380	V1
460 Vac/3 Phase	Input Power Supply: Three-Phase 380-480 Vac								
	1/2	1.0	CFW500A01P0T4NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$582	V1
	1	1.6	CFW500A01P6T4NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$604	V1
	2	2.6	CFW500A02P6T4NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$649	V1
	3	4.3	CFW500A04P3T4NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$799	V1
	3	6.1	CFW500A06P1T4NB20	No	A	7.5 x 3.0 x 5.9	1.8	\$982	V1
	2	2.6	CFW500B02P6T4DB20	Yes	B	7.9 x 4.0 x 6.3	2.6	\$708	V1
	3	4.3	CFW500B04P3T4DB20	Yes	B	7.9 x 4.0 x 6.3	2.6	\$892	V1
	5	6.5	CFW500B06P5T4DB20	Yes	B	7.9 x 4.0 x 6.3	2.6	\$1,067	V1
	7 1/2	10	CFW500B10P0T4DB20	Yes	B	7.9 x 4.0 x 6.3	2.6	\$1,207	V1
	10	14	CFW500C14P0T4DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,495	V1
	10	16	CFW500C16P0T4DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,684	V1
	15	24	CFW500D24P0T4DB20	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,229	V1
	25	31	CFW500D31P0T4DB20	Yes	D	12.1 x 7.1 x 6.6	9.5	\$2,783	V1
	30	39	CFW500E39P0T4DB20	Yes	E	13.8 x 8.7 x 7.6	22.1	\$3,346	V1
	40	49	CFW500E49P0T4DB20	Yes	E	13.8 x 8.7 x 7.6	22.1	\$4,214	V1
575 Vac ³ /3 Phase	Input Power Supply: Three-Phase 500-600 Vac								
	1 1/2	1.7	CFW500C01P7T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$910	V1
	3	3.0	CFW500C03P0T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$954	V1
	3	4.3	CFW500C04P3T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,073	V1
	7 1/2	7.0	CFW500C07P0T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,276	V1
	10	10.0	CFW500C10P0T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,621	V1
	10	12.0	CFW500C12P0T5DB20	Yes	C	8.3 x 5.3 x 6.5	4.4	\$1,813	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) All 575V drives are non-stocked items. Consult WEG for availability.

For other technical data please refer to WEG product manual.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Options and Accessories

Type	CATALOG NUMBER	Description	Apprx. Shpg. Wt. (lbs.)	List Price	Multiplier Symbol
I/O	CFW500-IOS¹	CFW500 I/O Module; 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 1 RS485, 10vdc, 24vdc	0.2	\$110	V1
I/O	CFW500-IOD	CFW500 I/O Module; 8 DI, 1 AI, 1 AO, 1 DOR, 4 DOT, 1 RS485, 10vdc, 24vdc	0.2	\$141	V1
I/O	CFW500-IOAD	CFW500 I/O Module; 6 DI, 3 AI, 2 AO, 1 DOR, 3 DOT, 1 RS485, 10vdc, 24vdc	0.2	\$182	V1
I/O	CFW500-IOR	CFW500 I/O Module; 5 DI, 1 AI, 1 AO, 4 DOR, 1 DOT, 1 RS485, 10vdc, 24vdc	0.2	\$125	V1
Encoder Input	CFW500-ENC	CFW500 Encoder Module; Quad Input A & B, 1 RS485, 5 DI, 1 AI, 1 AO, 3 DOR, 1 DOT, 24vdc	0.2	\$210	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	V1
RS232 Card	CFW500-CRS232	CFW500 Comm. Module; 1 RS232, 1 RS485, 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 24vdc	0.2	\$138	V1
RS485 Card	CFW500-CRS485	CFW500 Comm. Module; 2 RS485, 4 DI, 2 AI, 1 AO, 2 DOR, 1 DOT, 10vdc, 24vdc	0.2	\$143	V1
CANopen Card	CFW500-CCAN	CFW500 Comm. Module; 1 CAN/DeviceNet, 1 RS485, 2 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 10vdc, 24vdc	0.2	\$138	V1
Profibus DP Card	CFW500-CPDP	CFW500 Comm. Module; 2 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 1 Profibus DP, 1 RS485, 24vdc	0.2	\$405	V1
Profibus DP & DP-V1 Module	CFW500-CPDP2	CFW500 Comm. Module; 1-Profibus DP & DP-V1 100BASE TX RJ-45 Port, 1-RS485, 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 24vdc	0.2	\$445	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, 24vdc	0.2	\$499	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, 24vdc	0.2	\$499	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, 24vdc	0.2	\$499	V1
Flash Memory Module	CFW500-MMF	CFW500 Flash Memory Module for saving and reloading program and parameters to / from the drive	0.2	\$189	V1
Remote Keypad	CFW500-HMIR²	CFW500 Remote Keypad for mounting through enclosure door	0.6	\$169	V1
Remote Oper. Station	CSW-SP3PBS	Remote Operator Station-includes 22mm Start PB, Stop PB, 1-NC and 1-NO contact block, 5k-ohm Potentiometer and legends (replaces CFW-REM)	5.0	\$460	Z5
Remote Oper. Station	CSW30-SP3PBS	Remote Operator Station-includes 30mm Start PB, Stop PB, 1-NC and 1-NO contact block, 5k-ohm Potentiometer and legends (replaces CFW-REM)	5.0	\$535	Z5
HMI Cable 1M	CFW500-CCHMIR01M	3.3 ft (1 meter) Remote Keypad Cable	0.5	\$23	V1
HMI Cable 2M	CFW500-CCHMIR02M	6.6 ft (2 meter) Remote Keypad Cable	0.7	\$31	V1
HMI Cable 3M	CFW500-CCHMIR03M	9.9 ft (3 meter) Remote Keypad Cable	1.0	\$41	V1
HMI Cable 5M	CFW500-CCHMIR05M	16 ft (5 meter) Remote Keypad Cable	1.2	\$51	V1
HMI Cable 7.5M	CFW500-CCHMIR075M	25 ft (7.5 meter) Remote Keypad Cable	1.5	\$61	V1
HMI Cable 10M	CFW500-CCHMIR010M	33 ft (10 meter) Remote Keypad Cable	2.0	\$72	V1
USB Comm. Cable 2M	CFW500-USB02M	USB Communication Cable, 6.6 ft (2 meter) length	0.7	\$50	V1
NEMA1 Conduit Kit	CFW500-KN1A	NEMA 1 kit – Frame Size A	0.6	\$28	V1
NEMA1 Conduit Kit	CFW500-KN1B	NEMA 1 kit – Frame Size B	0.7	\$33	V1
NEMA1 Conduit Kit	CFW500-KN1C	NEMA 1 kit – Frame Size C	0.7	\$44	V1
NEMA1 Conduit Kit	CFW500-KN1D	NEMA 1 kit – Frame Size D	0.8	\$59	V1
NEMA1 Conduit Kit	CFW500-KN1E	NEMA 1 kit – Frame Size E	0.9	\$64	V1
Cable Shield Clamp Kit	CFW500-KPCSA	Cable Shield Clamp Kit for Frame A	1.0	\$41	V1
Cable Shield Clamp Kit	CFW500-KPCSB	Cable Shield Clamp Kit for Frame B	1.0	\$44	V1
Cable Shield Clamp Kit	CFW500-KPCSC	Cable Shield Clamp Kit for Frame C	1.1	\$46	V1
Cable Shield Clamp Kit	CFW500-KPCSD	Cable Shield Clamp Kit for Frame D	1.1	\$51	V1

Notes:

1) CFW500-IOS Card is included as standard with CFW500 Drives

2) CFW500-HMIR Remote Keypad requires Qty. (1) CFW500-CCHIR0xM cable. ("x" represents the cable length in meters)

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

CFW500

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	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	4	2	1	2	1					2					
CFW500-CCAN	2	1	1	1	1					1	1				
CFW500-CPDP	2	1	1	1	1							1			
CFW500-CPDP2	2	1	1	1	1							1 & 1			
CFW500-CEMB-TCP	2	1	1	1	1								1		
CFW500-CEPN-IO	2	1	1	1	1									1	
CFW500-CETH-IP	2	1	1	1	1										1

Notes:

1) CFW500 Drive includes 4DI as standard. Option Modules provide suplimental I/O as shown in this table.

Technical Data

Power Supply	Voltage	Single phase or Three Phase	200-240V (+10%, -15%)
		Three phase	380-480V (+10%, -15%)
	Frequency	50 / 60Hz +/- 2Hz	
	Displacement Power Factor (Cos)	Greater than 0.98	
Enclosure	Degree of Protection	IP20	
	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 15kHz	
	Frequency Range	0-300 Hz	
	Overload Capacity	150% for 60 seconds, repeatable every 10 min.	
Control Inputs	4 programmable isolated digital inputs, NPN or 24Vdc logic (PNP)		
	2 programmable differential analog inputs; programmable for current or voltage Can be set as DI or as PTC input (0-10V, 4-20mA or 0-20mA)		
Control Outputs	2 programmable relay outputs: One NO (Form A) and one NC (Form B): 240 V / 0.5 A		
	1 Analog Output; programmable for voltage (0-10V) or current (0-20 mA or 4-20 mA) and with 0.25% linearity error		
Communication	Serial	Optional RS-232 serial interface, RS-485 with external RS-232/485 converter	
	Field Bus	Modbus RTU with external RS-232/485 converter	
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 (50°C), up to 140°F (60°C) with 2% / 1.8°F (1°C) output current derating	
	Humidity	5-90% Non Condensing	
	Altitude	0-3300 ft (1000m), up to 13,200 ft (4000m) with 10% / 3300ft (1000m) 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, PID Controller		
Keypad	4 digit display, 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		

Please refer to back cover for description of “NOTES”

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Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

CFW700

The WEG CFW700 Series was designed to exceed industry expectations. Based on the robust CFW11 platform the CFW700 is designed and optimized for variable torque applications such as pumps and fans.

The CFW700 is the optimal drive for pump and fan control. The drive includes features such as built in PID controllers that can be programmed in engineering units for ease of understanding and set up. The drive also features an integrated power supply to be used with external transducers to measure flow or pressure.

These features combined with the drive's keypad based start up guide, make installation and parameter set up fast and easy.

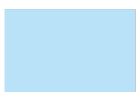
Standard Features

- Simplicity – same programming as all other WEG drives
- Dual DC Bus chokes for longer VFD lifetime (6% equivalent), reduces harmonics eliminating the need for external line reactors
- Plenum Rated - Meets UL94 Requirements
- 24VDC Power Supply for process transducers - Standard
- Soft-PLC with free programming software
- Encoder Input - Standard
- RS-485 Modbus RTU - Standard
- Conformal Coated boards for harsh industrial environments
- Rated 50 °C (122 °F) – up to 60 °C (140 °F) with derating
- Self-tuning function automatically matches VFD with motor
- UL, cUL, CE, C-Tick, GOST, IRAM approved
- SuperDrive G2 compatible



Applications

- | | |
|------------------------|------------------|
| • Pumps | • Fans/Blowers |
| • Conveyers | • Compressors |
| • Agitators and Mixers | • Extruders |
| • Grizzly Feeders | • Centrifuges |
| • Cranes and Hoists | • Rollout Tables |
| • Presses | • Saws |



CFW700 Catalog Number Sequence

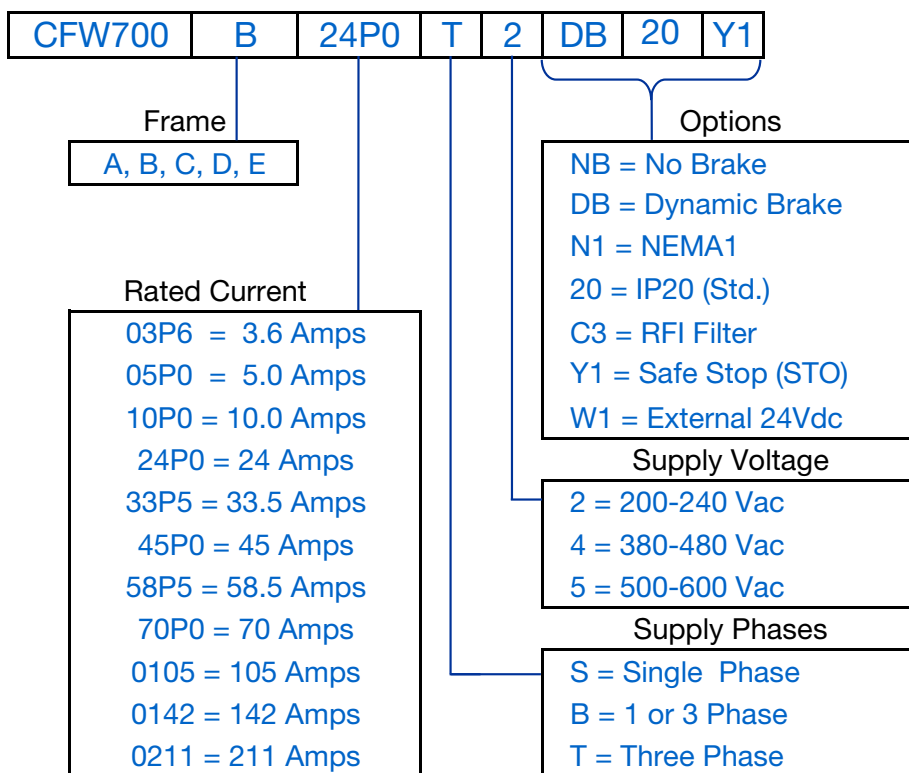


Table intended as reference only and not to create part numbers.

Variable Frequency Drives



CFW700

IP20 Enclosure (Use NEMA1 kit, part # KN1x-01/02, to convert IP20 rated CFW700 to UL TYPE 1 / NEMA1)

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) HxWxD ⁶	Approx. Weight (lbs.) ⁶	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	CFW700A06P0B2DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,370	V1
	2	7.0	2	7.0	CFW700A07P0B2DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,430	V1
	Input Power Supply: Single-Phase 200-240 Vac with Dynamic Braking Transistor										
	3	10	3	10	CFW700A10P0S2DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,510	V1
	Input Power Supply: Three-Phase 200-240 Vac with Dynamic Braking Transistor										
	2	7.0	1 1/2	5.5	CFW700A07P0T2DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,350	V1
	3	10	2	8.0	CFW700A10P0T2DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,410	V1
	5	13	3	11	CFW700A13P0T2DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,440	V1
	5	16	5	13	CFW700A16P0T2DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,542	V1
	7 1/2	24	7 1/2	20	CFW700B24P0T2DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,020	V1
	10	28	10	24	CFW700B28P0T2DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,201	V1
	10	33.5	10	28	CFW700B33P5T2DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,600	V1
	15	45	15	36	CFW700C45P0T2DB20	Yes	C	17.7 x 8.7 x 11.5	44.6	\$2,900	V1
	20	54	20	45	CFW700C54P0T2DB20	Yes	C	17.7 x 8.7 x 11.5	44.6	\$3,700	V1
	25	70	20	56	CFW700C70P0T2DB20	Yes	C	17.7 x 8.7 x 11.5	44.6	\$4,880	V1
	30	86	25	70	CFW700D86P0T2DBN1	Yes	D	19.9 x 11.9 x 12.0	120.2	\$6,101	V1
	40	105	30	86	CFW700D105T2DBN1	Yes	D	19.9 x 11.9 x 12.0	120.2	\$8,100	V1
	50	142	40	115	CFW700E142T2DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$11,500	V1
	60	180	50	142	CFW700E180T2DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$15,500	V1
	75	211	60	180	CFW700E211T2DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$21,222	V1
	Input Power Supply: Three-Phase 200-240 Vac without Dynamic Braking Transistor										
	50	142	40	115	CFW700E142T2NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$10,101	V1
	60	180	50	142	CFW700E180T2NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$12,999	V1
	75	211	60	180	CFW700E211T2NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$18,555	V1

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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) Dimensions and weights are provided for estimating purposes only.
- For other technical data please refer to WEG product manual.

VFDs and Enclosed Motor Controls

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>



IP20 Enclosure (Use NEMA1 kit, part # KN1x-01/02, to convert IP20 rated CFW700 to UL TYPE 1 / NEMA1)

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) HxWxD ⁶	Approx. Weight (lbs.) ⁶	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	CFW700A03P6T4DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,350	V1
	3	5.0	3	5.0	CFW700A05P0T4DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,444	V1
	5	7.0	3	5.5	CFW700A07P0T4DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,510	V1
	7 1/2	10	5	10	CFW700A10P0T4DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,600	V1
	10	13.5	7 1/2	11	CFW700A13P5T4DB20	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,711	V1
	10	17	10	13.5	CFW700B17P0T4DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,055	V1
	15	24	10	19	CFW700B24P0T4DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,455	V1
	20	31	15	25	CFW700B31P0T4DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$3,450	V1
	25	38	20	33	CFW700C38P0T4DB20	Yes	C	17.7 x 8.7 x 11.5	44.6	\$3,888	V1
	30	45	25	38	CFW700C45P0T4DB20	Yes	C	17.7 x 8.7 x 11.5	44.6	\$5,000	V1
	40	58.5	30	47	CFW700C58P5T4DB20	Yes	C	17.7 x 8.7 x 11.5	44.6	\$5,800	V1
	50/60	70.5	40	61	CFW700D70P5T4DBN1	Yes	D	19.9 x 11.9 x 12.0	120.2	\$6,888	V1
	60/75	88	50	73	CFW700D88P0T4DBN1	Yes	D	19.9 x 11.9 x 12.0	120.2	\$8,100	V1
	75	105	75	88	CFW700E105T4DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$11,989	V1
	100/125	142	75	115	CFW700E142T4DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$14,989	V1
	150	180	100	142	CFW700E180T4DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$20,989	V1
	175	211	150	180	CFW700E211T4DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$25,989	V1
	Input Power Supply: Three-Phase 380-480 Vac without Dynamic Braking Transistor										
	75	105	75	88	CFW700E105T4NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$9,999	V1
	100/125	142	75	115	CFW700E142T4NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$12,000	V1
	150	180	100	142	CFW700E180T4NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$15,400	V1
	175	211	150	180	CFW700E0211T4NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$18,787	V1

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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) Dimensions and weights are provided for estimating purposes only.
- For other technical data please refer to WEG product manual.

CFW700

IP20 Enclosure (Use NEMA1 kit, part # KN1x-01/02, to convert IP20 rated CFW700 to UL TYPE 1 / NEMA1)

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) HxWxD ⁶	Approx. Weight (lbs.) ⁶	List Price	Multiplier
	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	CFW700B02P9T5DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$1,689	V1
	3	4.2	3	3.8	CFW700B04P2T5DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$1,759	V1
	7 1/2	7.0	5	6.5	CFW700B07P0T5DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$1,874	V1
	10	10	7 1/2	9.0	CFW700B10P0T5DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,048	V1
	10	12	10	10	CFW700B12P0T5DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,171	V1
	15	17	15	17	CFW700B17P0T5DB20	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,552	V1
	20	22	20	19	CFW700C22P0T5DB20	Yes	C	19.9 x 11.9 x 12.0	120.2	\$4,235	V1
	25	27	20	22	CFW700C27P0T5DB20	Yes	C	19.9 x 11.9 x 12.0	120.2	\$4,506	V1
	30	32	25	27	CFW700C32P0T5DB20	Yes	C	19.9 x 11.9 x 12.0	120.2	\$6,486	V1
	40	44	30	36	CFW700C44P0T5DB20	Yes	C	19.9 x 11.9 x 12.0	120.2	\$7,309	V1
	50	53	40	44	CFW700E53P0T5DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$9,118	V1
	60	63	50	53	CFW700E63P0T5DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$11,580	V1
	75	80	75	66	CFW700E80P0T5DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$12,091	V1
	100	107	100	90	CFW700E107T5DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$16,240	V1
	125	125	100	107	CFW700E125T5DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$16,910	V1
	150	150	125	122	CFW700E150T5DB20C3	Yes	E ⁵	26.6 x 13.2 x 14.1	143	\$23,456	V1
	Input Power Supply: Three-Phase 500-600 Vac without Dynamic Braking Transistor										
	20	22	20	19	CFW700D22P0T5NBN1	No	D	26.6 x 13.2 x 14.1	120.2	\$3,921	V1
	25	27	20	22	CFW700D27P0T5NBN1	No	D	26.6 x 13.2 x 14.1	120.2	\$4,450	V1
	30	32	25	27	CFW700D32P0T5NBN1	No	D	26.6 x 13.2 x 14.1	120.2	\$5,763	V1
	40	44	30	36	CFW700D44P0T5NBN1	No	D	26.6 x 13.2 x 14.1	120.2	\$6,768	V1
	50	53	40	44	CFW700E53P0T5NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$8,446	V1
	60	63	50	53	CFW700E63P0T5NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$10,728	V1
	75	80	75	66	CFW700E80P0T5NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$11,200	V1
	100	107	100	90	CFW700E107T5NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$15,042	V1
	125	125	100	107	CFW700E125T5NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$15,662	V1
	150	150	125	122	CFW700E150T5NB20C3	No	E ⁵	26.6 x 13.2 x 14.1	143	\$21,723	V1

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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) Dimensions and weights are provided for estimating purposes only.
- For other technical data please refer to WEG product manual.

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Options and Accessories

Type	Catalog Number	Description	List Price	Multiplier
Communication	CAN-01	CAN interface module (CANopen/DeviceNet) (CFW11 & CFW700)	\$410	V1
	PROFIBUS DP-01	Profibus DP-V1 interface module (CFW11 & CFW700)	\$520	V1
I/O	CCK-01	Relay Output Module for CFW700 and CFW701, 2 Form C Relay Outputs	\$105	V1
Flash Memory	MMF-02	Flash Memory Module for CFW700 and CFW701	\$71	V1
Keypad and Accessories	HMI-02	CFW700 Standard Keypad with USB	\$320	V1
	RHMIF-02	CFW700 Remote Keypad Frame Kit	\$69	V1
	HMI-03	CFW701 Standard Keypad with USB	\$320	V1
	RHMIF-03	CFW701 Remote Keypad Frame Kit	\$69	V1
	HMID-01	Blank Keypad Cover for Keypad Slot (CFW11, CFW700 & CFW701)	\$54	V1
Remote Keypad Cable	IHM-CAB-RS-1M	3.3 ft (1 meter) Remote Keypad Cable (CFW11 & CFW700)	\$54	V1
	IHM-CAB-RS-2M	6.6 ft (2 meter) Remote Keypad Cable (CFW11 & CFW700)	\$60	V1
	IHM-CAB-RS-3M	9.9 ft (3 meter) Remote Keypad Cable (CFW11 & CFW700)	\$66	V1
	IHM-CAB-RS-5M	16 ft (5 meter) Remote Keypad Cable (CFW11 & CFW700)	\$75	V1
	IHM-CAB-RS-7.5M	25 ft (7.5 meter) Remote Keypad Cable (CFW11 & CFW700)	\$90	V1
	IHM-CAB-RS-10M	33 ft (10 meter) Remote Keypad Cable (CFW11 & CFW700)	\$102	V1
Remote Oper. Station	CSW-SP3PBS	Remote Operator Station-includes 22mm Start PB, Stop PB, 1-NC and 1-NO contact block, 5k-ohm Potentiometer and legends (replaces CFW-REM)	\$460	Z5
	CSW30-SP3PBS	Remote Operator Station-includes 30mm Start PB, Stop PB, 1-NC and 1-NO contact block, 5k-ohm Potentiometer and legends (replaces CFW-REM)	\$535	Z5
Conduit Kit	KN1A-02	Conduit Kit for frame size A with power cables shielding	\$125	V1
	KN1B-02	Conduit Kit for frame size B with power cables shielding	\$125	V1
	KN1C-02	Conduit Kit for frame size C with power cables shielding	\$142	V1
	KN1E-01	Top cover kit for frame size E (105 & 142A)	\$78	V1
	KN1E-02	Top cover kit plus Conduit kit for frame size E (180 & 211A)	\$213	V1
	KIP21D-01	IP21 Kit for Frame size D (top cover) (CFW11 & CFW700)	\$120	V1
Cable Shield Kit	PCSA-01	Power Cables Shielding Kit for frame size A (CFW11 & CFW700)	\$48	V1
	PCSB-01	Power Cables Shielding Kit for frame size B (CFW11 & CFW700)	\$51	V1
	PCSC-01	Power Cables Shielding Kit for frame size C (CFW11 & CFW700)	\$54	V1
	PCSD-01	Power Cables Shielding Kit for frame size D (CFW11 & CFW700)	\$56	V1
	PCSE-01	Power Cables Shielding Kit for frame size E (CFW11 & CFW700)	\$76	V1

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

A-339

CFW700

Technical Data

Power Supply	Voltage	Single Phase or Three Phase	200-240V (+10%, -15%)
		Three phase	380-480V (+10%, -15%)
	Frequency	50 / 60Hz +/- 2Hz	
	Displacement Power Factor (Cos)	Greater than 0.98	
Enclosure	Degree of Protection	IP2	
Control	Control Modes	Volts per Hertz (Scalar)	Voltage Vector (VVW)
		Sensorless 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 / 60 sec. VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.	
Control Inputs	8 programmable isolated digital inputs, 24Vdc logic		
	2 isolated programmable differential analog inputs 11 bit; programmable for current or voltage (0-10V, 4-20mA or 0-20mA)		
	Motor thermistor - PTC/PT100/KTY84		
	Incremental encoder input – 5 to 12V		
Control Outputs	1 programmable relay output; NO/NC (Form C); 240Vac, 30Vdc / 0.75 A		
	4 programmable isolated open collector digital outputs; 24Vdc, 80mA max.		
	2 non-isolated programmable analog outputs 10 bit; programmable for current or voltage (0-10V, 4-20mA or 0-20mA)		
Communication	Serial	Optional RS-232 serial interface, RS-485 with external RS-232/485 converter	
	Field Bus	Isolated RS-485 / Modbus RTU (standard)	
		CAN interface module (CANopen/DeviceNet)	
		Profibus DP interface 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 (50°C), up to 140°F (60°C) with 2% / 1.8°F (1°C) output current derating	
	Humidity	5-90% Non Condensing	
	Altitude	0-3300 ft (1000m), up to 13,200 ft (4000m) with 1% output current derating per 330ft (100m) above 3300 ft (1000m).	
Regulatory / Safety Conformance	IEC 60146	Semiconductor converters	
	UL 508 C	Power Conversion Equipment	
	UL 840	Insulation coordination including clearances and creepage distances for electrical equipment.	
	UL 94	Plenum Rated - Meets UL94 Standard for Tests for Flammability	
	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, 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, max. and min. adjustable frequency limits, adjustable output current, PID Controller		
Keypad	Backlit LCD display with 9 operator keys, remote mounting option available		
	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		

Please refer to back cover for description of “NOTES”

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>



Line Reactors

3% Z (Impedance) – NEMA 1 Enclosure

Motor Voltage	Motor HP	Reactor Amps	Catalog Number	Dimensions (in.) ¹ HxWxD	Approx. Weight (lbs.) ¹	List Price	Multiplier
230 Vac	Input Power Supply: Three-Phase 230 Vac						
	3	12	LRW012D3N1	8 x 8 x 6	16	\$436	V1
	5	18	LRW018D3N1	8 x 8 x 6	16	\$512	V1
	7 1/2	25	LRW025D3N1	13 x 13.3 x 13.1	42	\$590	V1
	10	35	LRW035D3N1	13 x 13.3 x 13.1	45	\$634	V1
	15	45	LRW045D3N1	13 x 13.3 x 13.1	54	\$756	V1
	20	55	LRW055D3N1	13 x 13.3 x 13.1	55	\$890	V1
	25 / 30	80	LRW080D3N1	13 x 13.3 x 13.1	74	\$905	V1
	40	100	LRW100D3N1	13 x 13.3 x 13.1	78	\$1,086	V1
	50	130	LRW130D3N1	13 x 13.3 x 13.1	60	\$1,175	V1
	60	160	LRW160D3N1	13 x 13.3 x 13.1	71	\$1,424	V1
	75	200	LRW200D3N1	13 x 13.3 x 13.1	79	\$1,488	V1
460 Vac	Input Power Supply: Three-Phase 460 Vac						
	1 1/2	2	LRW002G3N1	8 x 8 x 6	11	\$387	V1
	2 , 3	4	LRW004G3N1	8 x 8 x 6	11	\$394	V1
	5	8	LRW008G3N1	8 x 8 x 6	14	\$415	V1
	7 1/2	12	LRW012G3N1	8 x 8 x 6	16	\$452	V1
	10	18	LRW018G3N1	8 x 8 x 6	16	\$519	V1
	15	25	LRW025G3N1	13 x 13.3 x 13.1	42	\$601	V1
	20 / 25	35	LRW035G3N1	13 x 13.3 x 13.1	45	\$715	V1
	30	45	LRW045G3N1	13 x 13.3 x 13.1	54	\$841	V1
	40	55	LRW055G3N1	13 x 13.3 x 13.1	55	\$987	V1
	50 / 60	80	LRW080G3N1	13 x 13.3 x 13.1	60	\$1,179	V1
	75	100	LRW100G3N1	13 x 13.3 x 13.1	71	\$1,450	V1
	100	130	LRW130G3N1	13 x 13.3 x 13.1	74	\$1,750	V1
	125	160	LRW160G3N1	13 x 13.3 x 13.1	48	\$2,060	V1
	150	200	LRW200G3N1	13 x 13.3 x 13.1	79	\$2,400	V1
	200	250	LRW250G3N1	24 x 18.4 x 16.8	99	\$2,990	V1
	250	320	LRW320G3N1	24 x 18.4 x 16.8	155	\$3,700	V1
	300	400	LRW400G3N1	24 x 18.4 x 16.8	155	\$4,962	V1
	350 / 400	500	LRW500G3N1	47 x 26.5 x 24.9	165	\$6,446	V1
	450 / 500	600	LRW600G3N1	47 x 26.5 x 24.9	205	\$7,950	V1
	750 / 800	1000	LRW1000G3N1	Consult Factory		\$9,788	V1

Notes:

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

VFDs and
Enclosed Motor
Controls

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

The WEG CFW500 Wash series is a redesign of our most successful CFW500 series product line. Engineer improvements have produced one of the most compact and full featured washdown drive in the market.

The new version with IP66/NEMA 4X protection rating increases the product robustness, ensuring protection against the ingress of dust and water jets from any direction, which allows its use and installation both indoors and outdoors. The new IP66 models of the CFW500 line have the following characteristics.

Standard Features

- Same programming as other WEG VFDs including CFW500-IP20.
- Built-in SoftPLC.
- Scalar, Vector Control (Senseless and closed loop with encoder feedback) & VVW PM (suitable for fan, Pump and compressor).
- NEMA 4X(IP66) Enclosure.
- Available with and without disconnect switch.
- Suitable for indoor and Outdoor use.
- 200-240V, 380-480V or 500-600 input voltage.
- Heavy Duty rated - 150% current overload capacity.
- 0 to 500 Hz output frequency.
- 2.5 to 15 kHz adjustable switching frequency (5 kHz standard)
- Built-in 24Vdc Power supply (max. 150 mA).
- Built-in RS-485 (Modbus RTU) communication.
- Four isolated programmable digital inputs.
- One programmable relay output (1NO, 1NC, 240vac 0.5A).
- One programmable transistor output.
- One isolated programmable analog input (0-10V, 0/4-20mA).
- One isolated programmable analog output (0-10V, 0/4-20mA).
- Protective features: Over current (Phase-Phase short circuit in the output or phase-ground short circuit in the output), Under/overvoltage, overtemperature in heatsink, motor overload, IGBT overload and external fault.
- Control features: Linear and "S" ramp acceleration and deceleration, local/remote control, DC braking, torque boost, motor slip compensation, electronic pot, preset speeds, adjustable V/Hz profile, maximum and minimum adjustable frequency limits, two skip frequencies, adjustable output current limit, JOG, ride-thru, flying start and PID regulator.
- Same keypad with backlight as of CFW500 product line with Main display line, secondary display line and bar graph display.
- Ambient: 14°F (-10°C) to 104°F (40°C), 3300ft (1000m) altitude, 5-95% humidity, non-condensing.
- WLP and WPS (only 230VAC and 460VAC Models) compatible.

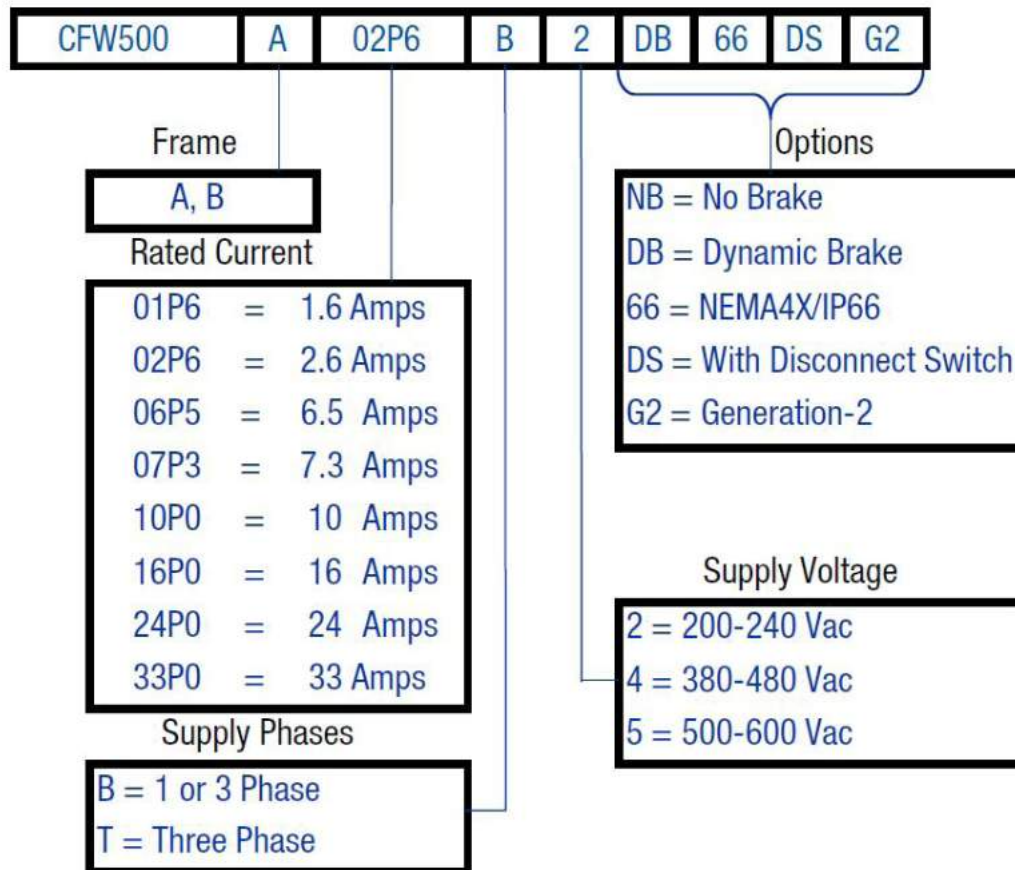
For Indoor / Outdoor Use



Applications NEMA 4X

- Pumps
- Fans
- Blowers
- Conveyors
- Rollout tables
- Agitators
- Mixers
- Any washdown applications

CFW500-N4X/IP66 Catalog Number Sequence



CFW500 WASH

CFW500 - N4X/IP66 VFD W/O DISCONNECT SWITCH

Motor Voltage	HD - Motor HP ¹	HD - Drive Amps ²	Catalog Number	Braking Transistor	Frame Size ⁴	Dimensions (in.) HxWxD	Approx. Weight (lbs.)	List Price	Multiplier New (Old)
230 Vac / 3 Phase	Input Power Supply: Single or Three-Phase 200-240 Vac								
	1/3	1.6	CFW500A01P6B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$775	V1G (V1)
	3/4	2.6	CFW500A02P6B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$800	V1G (V1)
	1 1/2	4.3	CFW500A04P3B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$850	V1G (V1)
	2	7.3	CFW500A07P3B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,015	V1G (V1)
	3	10.0	CFW500A10P0B2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,095	V1G (V1)
	Input Power Supply: Three-Phase 200-240 Vac								
	5	16	CFW500A16P0T2DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,350	V1G (V1)
	7 1/2	24	CFW500B24P0T2DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$1,950	V1G (V1)
	10	28	CFW500B28P0T2DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,275	V1G (V1)
	10	33	CFW500B33P0T2DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,675	V1G (V1)
460 Vac / 3 Phase	Input Power Supply: Three-Phase 380-480 Vac								
	1/2	1.0	CFW500A01P0T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$950	V1G (V1)
	1	1.6	CFW500A01P6T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$975	V1G (V1)
	2	2.6	CFW500A02P6T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$990	V1G (V1)
	3	4.3	CFW500A04P3T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,175	V1G (V1)
	5	6.5	CFW500A06P5T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,400	V1G (V1)
	7 1/2	10	CFW500A10P0T4DB66G2	Yes	A	10.4 x 6.5 x 8.9	22.0	\$1,650	V1G (V1)
	10	14	CFW500B14P0T4DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,050	V1G (V1)
	10	16	CFW500B16P0T4DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,275	V1G (V1)
	15	24	CFW500B24P0T4DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$3,025	V1G (V1)
	25	31	CFW500B31P0T4DB66G2	Yes	B	13.4 x 8.5 x 8.9	26.5	\$3,650	V1G (V1)
575 Vac / 3 Phase ³	Input Power Supply: Three-Phase 500-600 Vac								
	1 1/2	1.7	CFW500B01P7T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$1,590	V1G (V1)
	3	3.0	CFW500B03P0T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$1,670	V1G (V1)
	3	4.3	CFW500B04P3T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$1,890	V1G (V1)
	7 1/2	7.0	CFW500B07P0T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,115	V1G (V1)
	10	10.0	CFW500B10P0T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,330	V1G (V1)
	10	12.0	CFW500B12P0T5DB66	Yes	B	13.4 x 8.5 x 8.9	26.5	\$2,615	V1G (V1)

Notes:

- 1) HP rating based on WEG W22 motors 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) All 575V drives are non-stocked items and are still Generation-1 drives, consult WEG for availability.
- 4) Frame Size A & B are rated for 40°C ambient temperature.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit [http:// www.weg.net](http://www.weg.net)

Data subject to change without notice.



CFW500 - N4X/IP66 VFD With DISCONNECT SWITCH

Motor Voltage	HD - Motor HP ¹	HD - Drive Amps ²	Catalog Number	Braking Transistor	Frame Size ⁴	Dimensions (in.) HxWxD	Approx. Weight (lbs.)	List Price	Multiplier New (Old)
230 Vac / 3 Phase	Input Power Supply: Single or Three-Phase 200-240 Vac								
	1/3	1.6	CFW500A01P6B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$895	V1G (V1)
	3/4	2.6	CFW500A02P6B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$920	V1G (V1)
	1 1/2	4.3	CFW500A04P3B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$980	V1G (V1)
	2	7.3	CFW500A07P3B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,170	V1G (V1)
	3	10.0	CFW500A10P0B2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,255	V1G (V1)
	Input Power Supply: Three-Phase 200-240 Vac								
	5	16	CFW500A16P0T2DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,555	V1G (V1)
	7 1/2	24	CFW500B24P0T2DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,245	V1G (V1)
	10	28	CFW500B28P0T2DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,620	V1G (V1)
	10	33	CFW500B33P0T2DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$3,080	V1G (V1)
460 Vac / 3 Phase	Input Power Supply: Three-Phase 380-480 Vac								
	1/2	1.0	CFW500A01P0T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,095	V1G (V1)
	1	1.6	CFW500A01P6T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,125	V1G (V1)
	2	2.6	CFW500A02P6T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,140	V1G (V1)
	3	4.3	CFW500A04P3T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,350	V1G (V1)
	5	6.5	CFW500A06P5T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,610	V1G (V1)
	7 1/2	10	CFW500A10P0T4DB66DSG2	Yes	A	10.4 x 6.5 x 9.9	22.0	\$1,900	V1G (V1)
	10	14	CFW500B14P0T4DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,360	V1G (V1)
	10	16	CFW500B16P0T4DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,620	V1G (V1)
	15	24	CFW500B24P0T4DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$3,480	V1G (V1)
	25	31	CFW500B31P0T4DB66DSG2	Yes	B	13.4 x 8.5 x 9.9	26.5	\$4,200	V1G (V1)
575 Vac / 3 Phase 3	Input Power Supply: Three-Phase 500-600 Vac								
	1 1/2	1.7	CFW500B01P7T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$1,830	V1G (V1)
	3	3.0	CFW500B03P0T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$1,925	V1G (V1)
	3	4.3	CFW500B04P3T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,175	V1G (V1)
	7 1/2	7.0	CFW500B07P0T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,435	V1G (V1)
	10	10.0	CFW500B10P0T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$2,680	V1G (V1)
	10	12.0	CFW500B12P0T5DB66DS	Yes	B	13.4 x 8.5 x 9.9	26.5	\$3,005	V1G (V1)

Notes:

- 1) HP rating based on WEG W22 motors 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) All 575V drives are non-stocked items and are still Generation-1 drives, consult WEG for availability.
- 4) Frame Size A & B are rated for 40°C ambient temperature.

CFW500 WASH

Options and Accessories

Type	CATALOG NUMBER	Description	Apprx. Shpg. Wt. (lbs.)
I/O	CFW500-IOS ¹	CFW500 I/O Module; 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 1 RS485, 10vdc, 24vdc	0.2
I/O	CFW500-IOD	CFW500 I/O Module; 8 DI, 1 AI, 1 AO, 1 DOR, 4 DOT, 1 RS485, 10vdc, 24vdc	0.2
I/O	CFW500-IOAD	CFW500 I/O Module; 6 DI, 3 AI, 2 AO, 1 DOR, 3 DOT, 1 RS485, 10vdc, 24vdc	0.2
I/O	CFW500-IOR-B	CFW500 I/O Module; 5 DI, 1 AI, 1 AO, 4 DOR, 1 DOT, 1 RS485, 10vdc, 24vdc	0.2
Encoder Input	CFW500-ENC	CFW500 Encoder Module; Quad Input A & B, 1 RS485, 5 DI, 1 AI, 1 AO, 3 DOR, 1 DOT, 24vdc	0.2
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
RS232 Card	CFW500-CRS232	CFW500 Comm. Module; 1 RS232, 1 RS485, 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 24vdc	0.2
RS485 Card	CFW500-CRS485-B	CFW500 Comm. Module; 2 RS485, 4 DI, 2 AI, 1 AO, 2 DOR, 1 DOT, 10vdc, 24vdc	0.2
CANopen Card	CFW500-CCAN	CFW500 Comm. Module; 1 CAN/DeviceNet, 1 RS485, 2 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 10vdc, 24vdc	0.2
Profibus DP & DP-V1 Module	CFW500-CPDP2	CFW500 Comm. Module; 1-Profibus DP & DP-V1 100BASE TX RJ-45 Port, 1-RS485, 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 24vdc (Terminal Block Connector)	0.2
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, 24vdc	0.2
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, 24vdc	0.2
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, 24vdc	0.2
STO Module	CFW500-SFY2 ²	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
STO Module Plug	CFW50X-STO-JMP	CFW50x STO module plug	0.2
Flash Memory Module	CFW500-MMF	CFW500 Flash Memory Module for saving and reloading program and parameters to / from the drive.	0.2
Remote Keypad - Non Text	CFW500-HMIR ³	CFW500 Remote non-text Keypad for mounting through enclosure door (Mounting Frame Kit is not required).	0.6
Remote Keypad - Advanced Text	HMI-01 ⁴	CFW500 Remote Advanced Text Keypad for mounting through enclosure door (Mounting Frame Kit is required).	0.4
Remote Keypad - Advanced Text Frame Kit	CFW500-RHMIF	CFW500 Remote Advanced Text Keypad enclosure door mounting frame kit	0.5
HMI Cable 1M	CFW500-CCHMIR01M	3.3 ft (1 meter) Remote Keypad Cable	0.5
HMI Cable 2M	CFW500-CCHMIR02M	6.6 ft (2 meter) Remote Keypad Cable	0.7
HMI Cable 3M	CFW500-CCHMIR03M	9.9 ft (3 meter) Remote Keypad Cable	1.0
HMI Cable 5M	CFW500-CCHMIR05M	16 ft (5 meter) Remote Keypad Cable	1.2
HMI Cable 7.5M	CFW500-CCHMIR075M	25 ft (7.5 meter) Remote Keypad Cable	1.5
HMI Cable 10M	CFW500-CCHMIR010M	33 ft (10 meter) Remote Keypad Cable	2.0

Notes:

1. CFW500-IOS Card is included as standard with CFW500-IP66 Drives.
2. The Safety Function Module can be installed in the CFW500-IP66 drives in addition to the IOS module / any other I/O module / communication module. This model only works with 230VAC and 460VAC drives.
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 & Qty. (1) CFW500-CCHIR0xM cable. ("x" represents the cable length in meters). This keypad only works with 230VAC and 460VAC drives.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit [http:// www.weg.net](http://www.weg.net)

CFW500 Technical Data

Power Supply	Voltage	Single phase or Three Phase	200-240 Vac (+10%, -15%)
		Three phase	380-480 Vac, 500-600 Vac (+10%, -15%)
	Frequency	50 / 60Hz +/- 2Hz	
Enclosure	Degree of Protection	NEMA 4X / IP66	
	Mounting	Indoor / Outdoor	
Control	Control Modes	Volts per Hertz (Scalar)	VVW: Voltage vector control
		Sensorless Voltage Vector	Vector control with encoder
	Power Output	Sinusoidal PWM (Space Vector Modulation)	
		IGBT Transistors	
	Switching Frequency	2.5kHz to 15kHz	
	Frequency Range	0-500 Hz, resolution of 0.015 Hz	
	Overload Capacity	150% for 60 seconds, repeatable every 10 min.	
Inputs	4 programmable isolated digital inputs, 24V DC, NPN (Active Low) or PNP (Active High)		
	1 programmable isolated analog input; programmable for current or voltage (0-10V, 4-20mA or 0-20mA)		
Outputs	1 programmable relay output: Form C (One NO & NC contact), 240 V / 0.5 A		
	1 programmable isolated open collector digital output (transistor Output); 24Vdc.		
	1 programmable isolated analog output; programmable for current or voltage (0-10V, 4-20mA or 0-20mA)		
Power Supply	24 Vdc, +/- 20%, Max. 150 mA		
	10 Vdc, Max. 2 mA		
Communication	Isolated RS485 (One Port)		
	Modbus-RTU with max. communication of 38.4 kbps		
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 - 104°F (-10 to 40°C), up to 122°F (50°C) with 2% / 1.8°F (1°C) output current derating.	
	Humidity	5-95% Non Condensing	
	Altitude	0-3300 ft (1000m), up to 13,200 ft (4000m) with 1% / 328ft (100 m) output current derating.	
Regulatory Conformance	Safety Standards	UL 508C, UL 840, IEN/EN 61800-5-1, EN 50178, IEC/EN 60204-1, IEC/EN 60146, IEC/EN 61800-2	
	Electromagnetic Compatibility (EMC)	IEC/EN 61800-3, CISPR 11, IEC/EN 61000-4-2/3/4/5/6.	
	Mechanical Construction	IEC/EN 60529, UL 50, IEC/EN 60721-3-3	
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, Dc bus regulaiton, Speed/Torque Control, PID		
Keypad	Three lines of Display (Main display, Secondary display & Bar display) displaying three patematers, LDC; 9 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		

EDP11

The Enclosed VFD Panel is an industrial general purpose AC motor control and protection package. It is designed for simple and quick installation and start-up, requiring only input power and output motor connections. There are two enclosure variants available such as NEMA 12 ventilated and NEMA 3R for Outdoor Installations.

The Enclosed VFD Panel is built to complement the ruggedness and reliability of WEG motors, providing a complete, simple, and cost effective AC motor control, monitor and protection solution.



NEMA 12 Features

- CFW11 Drive
- Indoor Rated
- Wall mounted
- Circuit Breaker with through door handle
- CFW11 VFD (Dual DC choke built-in)
- Fused 480V/120V CPT
- Internal Fan
- Heat sink through the back
- Motor Terminal Block
- Door mounted keypad
- Start / Stop Pushbuttons
- Run/Fault Pilot Lights
- Keypad cover - same as GPH2
- Drive and controls mounted in NEMA 4 section of panel; heat sink is external and rated NEMA 12

NEMA 3R Features

- NEMA 12 features plus:
- Outdoor Rated
- ED1-ED4: non-ventilated and wall mounted
- ED5: non-ventilated and floor mounted
- ED6-ED9: ventilated and floor mounted
- Weather kit (rain/sun/snow shield)
- Panel space heater + thermostat
- Lightning arrestor
- Service entrance rated

3-Contactor Bypass Option

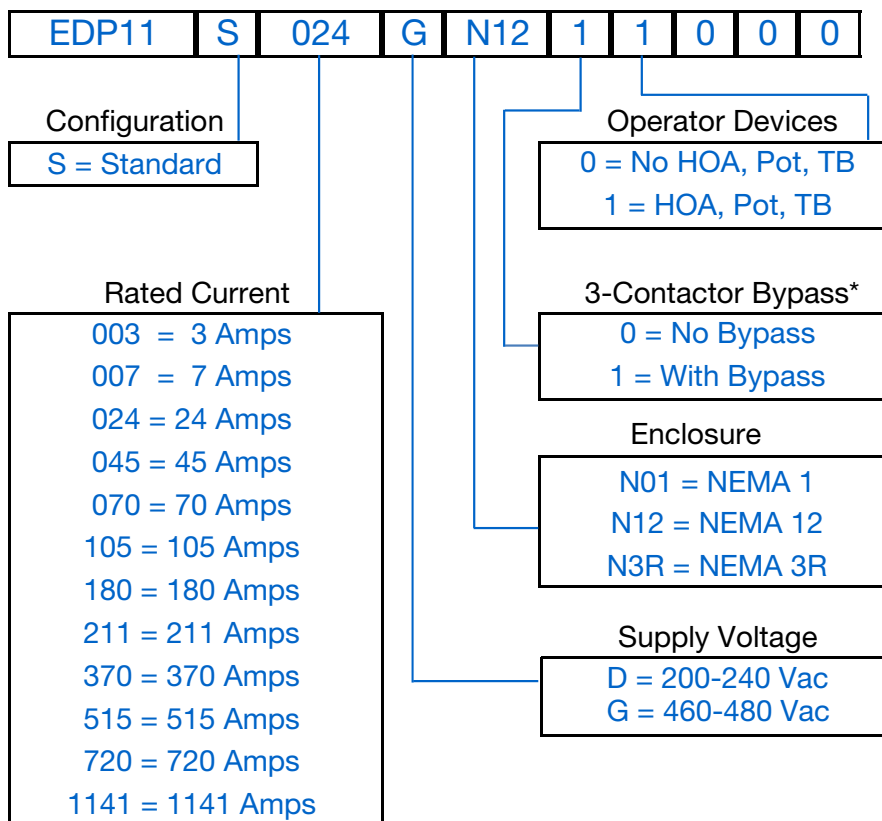
- NEMA 12 or NEMA 3R version
- AC3 full rated by-pass contactor
- Drive input and output contactors
- Motor overload relay
- E-Stop Mushroom style pushbutton
- Enclosure size to be determined

HOA/POT/TB Option

- HOA = Hand-OFF-Auto
- POT = Potentiometer for speed reference of PID setpoint
- TB = Auxiliary control terminal block for remote command



EDP11 Catalog Number Sequence



Enclosed Motor Controls



EDP11 - ENGINEERED DRIVE PANEL

Enclosed VFD Panel - NEMA 12 Enclosure (no By-Pass)

Motor Voltage	ND / VT¹		HD / CT¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Dimensions (in.) HxWxD ⁷	Approx. Weight (lbs.) ⁷	List Price	Multiplier
	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	ED1	24 x 20 x 11.5	36	\$6,690	V1
	3	10	2	8.0	EDP11S010DN12	Yes	A	ED1	24 x 20 x 11.5	36	\$6,756	V1
	5	13	3	11	EDP11S013DN12	Yes	A	ED1	24 x 20 x 11.5	41	\$6,855	V1
	5	16	5	13	EDP11S016DN12	Yes	A	ED1	24 x 20 x 11.5	42	\$7,123	V1
	7 1/2	24	7 1/2	20	EDP11S024DN12	Yes	B	ED1	24 x 20 x 11.5	56	\$7,664	V1
	10	28	10	24	EDP11S028DN12	Yes	B	ED1	24 x 20 x 11.5	56	\$8,408	V1
	10	33.5	10	28	EDP11S033DN12	Yes	B	ED1	24 x 20 x 11.5	56	\$9,108	V1
	15	45	15	36	EDP11S045DN12	Yes	C	ED2	30 x 24 x 14	88	\$10,214	V1
	20	54	20	45	EDP11S054DN12	Yes	C	ED2	30 x 24 x 14	90	\$11,491	V1
	25	70	20	56	EDP11S070DN12	Yes	C	ED2	30 x 24 x 14	100	\$12,162	V1
	30	86	25	70	EDP11S086DN12	Yes	D	ED3	36 x 30 x 14	230	\$14,321	V1
	40	105	30	86	EDP11S105DN12	Yes	D	ED3	36 x 30 x 14	240	\$17,164	V1
	50	142	40	115	EDP11S142DN12	No	E⁵	ED4	48 x 30 x 17.5	300	\$19,793	V1
	60	180	50	142	EDP11S180DN12	No	E⁵	ED4	48 x 30 x 17.5	300	\$25,116	V1
	75	211	60	180	EDP11S211DN12	No	E⁵	ED4	48 x 30 x 17.5	300	\$28,326	V1
460 Vac	Input Power Supply: Three-Phase 460-480 Vac											
	2	3.6	2	3.6	EDP11S003GN12	Yes	A	ED1	24 x 20 x 11.5	36	\$6,510	V1
	3	5.0	3	5.0	EDP11S005GN12	Yes	A	ED1	24 x 20 x 11.5	36	\$6,626	V1
	5	7.0	3	5.5	EDP11S007GN12	Yes	A	ED1	24 x 20 x 11.5	41	\$6,690	V1
	7 1/2	10	5	10	EDP11S010GN12	Yes	A	ED1	24 x 20 x 11.5	42	\$6,756	V1
	10	13.5	7 1/2	11	EDP11S013GN12	Yes	A	ED1	24 x 20 x 11.5	42	\$6,855	V1
	10	17	10	13.5	EDP11S017GN12	Yes	B	ED1	24 x 20 x 11.5	56	\$7,269	V1
	15	24	10	19	EDP11S024GN12	Yes	B	ED1	24 x 20 x 11.5	56	\$7,821	V1
	20	31	15	25	EDP11S031GN12	Yes	B	ED1	24 x 20 x 11.5	56	\$8,580	V1
	25	38	20	33	EDP11S038GN12	Yes	C	ED2	30 x 24 x 14	90	\$9,293	V1
	30	45	25	38	EDP11S045GN12	Yes	C	ED2	30 x 24 x 14	104	\$10,422	V1
	40	58.5	30	47	EDP11S058GN12	Yes	C	ED2	30 x 24 x 14	110	\$12,026	V1
	50/60	70.5	40	61	EDP11S070GN12	Yes	D	ED3	36 x 30 x 14	240	\$12,729	V1
	75	88	50	73	EDP11S088GN12	Yes	D	ED3	36 x 30 x 14	245	\$14,988	V1
	75	105	75	88	EDP11S105GN12	No	E⁵	ED4	48 x 30 x 17.5	300	\$17,964	V1
	100/125	142	75	115	EDP11S142GN12	No	E⁵	ED4	48 x 30 x 17.5	300	\$20,715	V1
	150	180	100	142	EDP11S180GN12	No	E⁵	ED4	48 x 30 x 17.5	300	\$26,286	V1
	175	211	125	180	EDP11S211GN12	No	E⁵	ED4	48 x 30 x 17.5	300	\$29,645	V1
	200	242	150	211	EDP11S242GN12	No	F⁵	ED6	83 x 32 x 37	700	\$40,755	V1
	250	312	200	242	EDP11S312GN12	No	F⁵	ED6	83 x 32 x 37	720	\$45,114	V1
	300	370	250	312	EDP11S370GN12	No	F⁵	ED6	83 x 32 x 37	750	\$47,743	V1
	400	477	300	370	EDP11S477GN12	No	F⁵	ED6	83 x 32 x 37	775	\$54,585	V1
	450	515	400	477	EDP11S515GN12	No	G⁵	ED8	83 x 56 x 37	1100	\$66,023	V1
	500	601	450	515	EDP11S601GN12	No	G⁵	ED8	83 x 56 x 37	1120	\$71,875	V1
	600	720	500	560	EDP11S720GN12	No	G⁶	ED8	83 x 56 x 37	1150	\$88,556	V1

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
- 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 and wall-mounted; ED6 - ED9 enclosures are ventilated and floor mounted.
- 5) Maximum 45°C ambient temperature without derating
- 6) Maximum 40°C ambient temperature without derating
- 7) 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.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>



Enclosed VFD Panel - NEMA 12 Enclosure with By-Pass

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Dimensions (in.) HxWxD ⁷	Approx. Weight (lbs.) ⁷	List Price	Multiplier
	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	ED2	30 x 24 x 14	36	\$8,200	V1
	3	10	2	8.0	EDP11S010DN1210000	Yes	A	ED2	30 x 24 x 14	36	\$8,276	V1
	5	13	3	11	EDP11S013DN1210000	Yes	A	ED2	30 x 24 x 14	41	\$8,375	V1
	5	16	5	13	EDP11S016DN1210000	Yes	A	ED2	30 x 24 x 14	42	\$8,643	V1
	7 1/2	24	7 1/2	20	EDP11S024DN1210000	Yes	B	ED2	30 x 24 x 14	56	\$9,262	V1
	10	28	10	24	EDP11S028DN1210000	Yes	B	ED2	30 x 24 x 14	56	\$10,200	V1
	10	33.5	10	28	EDP11S033DN1210000	Yes	B	ED2	30 x 24 x 14	56	\$11,011	V1
	15	45	15	36	EDP11S045DN1210000	Yes	C	ED3	36 x 30 x 14	88	\$12,316	V1
	20	54	20	45	EDP11S054DN1210000	Yes	C	ED3	36 x 30 x 14	90	\$13,738	V1
	25	70	20	56	EDP11S070DN1210000	Yes	C	ED3	36 x 30 x 14	100	\$14,857	V1
	30	86	25	70	EDP11S086DN1210000	Yes	D	ED4	48 x 30 x 17.5	230	\$17,016	V1
	40	105	30	86	EDP11S105DN1210000	Yes	D	ED4	48 x 30 x 17.5	240	\$20,052	V1
	50	142	40	115	EDP11S142DN1210000	No	E ⁵	ED5	72 x 36 x 18	300	\$24,778	V1
	60	180	50	142	EDP11S180DN1210000	No	E ⁵	ED5	72 x 36 x 18	300	\$31,111	V1
	75	211	60	180	EDP11S211DN1210000	No	E ⁵	ED5	72 x 36 x 18	300	\$35,651	V1
460 Vac	Input Power Supply: Three-Phase 460-480 Vac											
	2	3.6	2	3.6	EDP11S003GN1210000	Yes	A	ED2	30 x 24 x 14	36	\$8,020	V1
	3	5.0	3	5.0	EDP11S005GN1210000	Yes	A	ED2	30 x 24 x 14	36	\$8,136	V1
	5	7.0	3	5.5	EDP11S007GN1210000	Yes	A	ED2	30 x 24 x 14	41	\$8,200	V1
	7 1/2	10	5	10	EDP11S010GN1210000	Yes	A	ED2	30 x 24 x 14	42	\$8,276	V1
	10	13.5	7 1/2	11	EDP11S013GN1210000	Yes	A	ED2	30 x 24 x 14	42	\$8,375	V1
	10	17	10	13.5	EDP11S017GN1210000	Yes	B	ED2	30 x 24 x 14	56	\$8,867	V1
	15	24	10	19	EDP11S024GN1210000	Yes	B	ED2	30 x 24 x 14	56	\$9,613	V1
	20	31	15	25	EDP11S031GN1210000	Yes	B	ED2	30 x 24 x 14	56	\$10,483	V1
	25	38	20	33	EDP11S038GN1210000	Yes	C	ED3	36 x 30 x 14	90	\$11,395	V1
	30	45	25	38	EDP11S045GN1210000	Yes	C	ED3	36 x 30 x 14	104	\$12,669	V1
	40	58.5	30	47	EDP11S058GN1210000	Yes	C	ED3	36 x 30 x 14	110	\$14,721	V1
	50/60	70.5	40	61	EDP11S070GN1210000	Yes	D	ED4	48 x 30 x 17.5	240	\$15,424	V1
	75	88	50	73	EDP11S088GN1210000	Yes	D	ED4	48 x 30 x 17.5	245	\$17,876	V1
	75	105	75	88	EDP11S105GN1210000	No	E ⁵	ED5	72 x 36 x 18	300	\$21,308	V1
	100/125	142	75	115	EDP11S142GN1210000	No	E ⁵	ED5	72 x 36 x 18	300	\$25,700	V1
	150	180	100	142	EDP11S180GN1210000	No	E ⁵	ED5	72 x 36 x 18	300	\$32,281	V1
	175	211	125	180	EDP11S211GN1210000	No	E ⁵	ED5	72 x 36 x 18	300	\$36,970	V1
	200	242	150	211	EDP11S242GN1210000	No	F ⁵	ED7	83 x 64 x 37	700	\$53,334	V1
	250	312	200	242	EDP11S312GN1210000	No	F ⁵	ED7	83 x 64 x 37	720	\$59,257	V1
	300	370	250	312	EDP11S370GN1210000	No	F ⁵	ED7	83 x 64 x 37	750	\$62,146	V1
	400	477	300	370	EDP11S477GN1210000	No	F ⁵	ED7	83 x 64 x 37	775	\$76,618	V1
	450	515	400	477	EDP11S515GN1210000	No	G ⁵	ED9	83 x 95 x 37	1100	\$88,056	V1
	500	601	450	515	EDP11S601GN1210000	No	G ⁵	ED9	83 x 95 x 37	1120	\$99,447	V1
	600	720	500	560	EDP11S720GN1210000	No	G ⁶	ED9	83 x 95 x 37	1150	\$119,944	V1

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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 and wall-mounted; ED6 - ED9 enclosures are ventilated and floor mounted.
 - 5) Maximum 45°C ambient temperature without derating
 - 6) Maximum 40°C ambient temperature without derating
 - 7) 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.
Please refer to back cover for description of NOTES

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

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A-351

EDP11 - ENGINEERED DRIVE PANEL

Enclosed VFD Panel - NEMA 12 Enclosure (no By-Pass) with HOA / Pot / TB

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Dimensions (in.) HxWxD ⁷	Approx. Weight (lbs.) ⁷	List Price	Multiplier	
	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	ED1	30 x 24 x 14	36	\$7,453	V1	
	3	10	2	8.0	EDP11S010DN1201000	Yes	A	ED1	30 x 24 x 14	36	\$7,519	V1	
	5	13	3	11	EDP11S013DN1201000	Yes	A	ED1	30 x 24 x 14	41	\$7,618	V1	
	5	16	5	13	EDP11S016DN1201000	Yes	A	ED1	30 x 24 x 14	42	\$7,886	V1	
	7 1/2	24	7 1/2	20	EDP11S024DN1201000	Yes	B	ED1	30 x 24 x 14	56	\$8,427	V1	
	10	28	10	24	EDP11S028DN1201000	Yes	B	ED1	30 x 24 x 14	56	\$9,171	V1	
	10	33.5	10	28	EDP11S033DN1201000	Yes	B	ED1	30 x 24 x 14	56	\$9,871	V1	
	15	45	15	36	EDP11S045DN1201000	Yes	C	ED2	36 x 30 x 14	88	\$10,977	V1	
	20	54	20	45	EDP11S054DN1201000	Yes	C	ED2	36 x 30 x 14	90	\$12,254	V1	
	25	70	20	56	EDP11S070DN1201000	Yes	C	ED2	36 x 30 x 14	100	\$12,925	V1	
	30	86	25	70	EDP11S086DN1201000	Yes	D	ED3	48 x 30 x 17.5	230	\$15,084	V1	
	40	105	30	86	EDP11S105DN1201000	Yes	D	ED3	48 x 30 x 17.5	240	\$17,927	V1	
	50	142	40	115	EDP11S142DN1201000	No	E ⁵	ED4	72 x 36 x 18	300	\$20,556	V1	
	60	180	50	142	EDP11S180DN1201000	No	E ⁵	ED4	72 x 36 x 18	300	\$25,879	V1	
75	211	60	180	EDP11S211DN1201000	No	E ⁵	ED4	72 x 36 x 18	300	\$29,089	V1		
460 Vac	Input Power Supply: Three-Phase 460-480 Vac												
	2	3.6	2	3.6	EDP11S003GN1201000	Yes	A	ED1	30 x 24 x 14	36	\$7,273	V1	
	3	5.0	3	5.0	EDP11S005GN1201000	Yes	A	ED1	30 x 24 x 14	36	\$7,389	V1	
	5	7.0	3	5.5	EDP11S007GN1201000	Yes	A	ED1	30 x 24 x 14	41	\$7,453	V1	
	7 1/2	10	5	10	EDP11S010GN1201000	Yes	A	ED1	30 x 24 x 14	42	\$7,519	V1	
	10	13.5	7 1/2	11	EDP11S013GN1201000	Yes	A	ED1	30 x 24 x 14	42	\$7,618	V1	
	10	17	10	13.5	EDP11S017GN1201000	Yes	B	ED1	30 x 24 x 14	56	\$8,032	V1	
	15	24	10	19	EDP11S024GN1201000	Yes	B	ED1	30 x 24 x 14	56	\$8,584	V1	
	20	31	15	25	EDP11S031GN1201000	Yes	B	ED1	30 x 24 x 14	56	\$9,343	V1	
	25	38	20	33	EDP11S038GN1201000	Yes	C	ED2	36 x 30 x 14	90	\$10,056	V1	
	30	45	25	38	EDP11S045GN1201000	Yes	C	ED2	36 x 30 x 14	104	\$11,185	V1	
	40	58.5	30	47	EDP11S058GN1201000	Yes	C	ED2	36 x 30 x 14	110	\$12,789	V1	
	50/60	70.5	40	61	EDP11S070GN1201000	Yes	D	ED3	48 x 30 x 17.5	240	\$13,492	V1	
	75	88	50	73	EDP11S088GN1201000	Yes	D	ED3	48 x 30 x 17.5	245	\$15,751	V1	
	75	105	75	88	EDP11S105GN1201000	No	E ⁵	ED4	48 x 30 x 17.5	300	\$18,727	V1	
	100/125	142	75	115	EDP11S142GN1201000	No	E ⁵	ED4	48 x 30 x 17.5	300	\$21,478	V1	
	150	180	100	142	EDP11S180GN1201000	No	E ⁵	ED4	48 x 30 x 17.5	300	\$27,049	V1	
	175	211	125	180	EDP11S211GN1201000	No	E ⁵	ED4	48 x 30 x 17.5	300	\$30,408	V1	
	200	242	150	211	EDP11S242GN1201000	No	F ⁵	ED6	83 x 64 x 37	700	\$41,613	V1	
	250	312	200	242	EDP11S312GN1201000	No	F ⁵	ED6	83 x 64 x 37	720	\$45,972	V1	
	300	370	250	312	EDP11S370GN1201000	No	F ⁵	ED6	83 x 64 x 37	750	\$48,601	V1	
	400	477	300	370	EDP11S477GN1201000	No	F ⁵	ED6	83 x 64 x 37	775	\$55,443	V1	
	450	515	400	477	EDP11S515GN1201000	No	G ⁵	ED8	83 x 95 x 37	1100	\$66,881	V1	
	500	601	450	515	EDP11S601GN1201000	No	G ⁵	ED8	83 x 95 x 37	1120	\$72,733	V1	
	600	720	500	560	EDP11S720GN1201000	No	G ⁶	ED8	83 x 95 x 37	1150	\$89,414	V1	

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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 and wall-mounted; ED6 - ED9 enclosures are ventilated and floor mounted.
 - 5) Maximum 45°C ambient temperature without derating
 - 6) Maximum 40°C ambient temperature without derating
 - 7) 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.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>



Enclosed VFD Panel - NEMA 12 Enclosure with By-Pass and HOA / Pot / TB

Motor Voltage	ND / VT1		HD / CT1		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Dimensions (in.) HxWxD ⁷	Approx. Weight (lbs.) ⁷	List Price	Multiplier
	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	ED2	30 x 24 x 14	36	\$8,963	V1
	3	10	2	8.0	EDP11S010DN1211000	Yes	A	ED2	30 x 24 x 14	36	\$9,039	V1
	5	13	3	11	EDP11S013DN1211000	Yes	A	ED2	30 x 24 x 14	41	\$9,138	V1
	5	16	5	13	EDP11S016DN1211000	Yes	A	ED2	30 x 24 x 14	42	\$9,406	V1
	7 1/2	24	7 1/2	20	EDP11S024DN1211000	Yes	B	ED2	30 x 24 x 14	56	\$10,025	V1
	10	28	10	24	EDP11S028DN1211000	Yes	B	ED2	30 x 24 x 14	56	\$10,963	V1
	10	33.5	10	28	EDP11S033DN1211000	Yes	B	ED2	30 x 24 x 14	56	\$11,774	V1
	15	45	15	36	EDP11S045DN1211000	Yes	C	ED3	36 x 30 x 14	88	\$13,079	V1
	20	54	20	45	EDP11S054DN1211000	Yes	C	ED3	36 x 30 x 14	90	\$14,501	V1
	25	70	20	56	EDP11S070DN1211000	Yes	C	ED3	36 x 30 x 14	100	\$15,620	V1
	30	86	25	70	EDP11S086DN1211000	Yes	D	ED4	48 x 30 x 17.5	230	\$17,779	V1
	40	105	30	86	EDP11S105DN1211000	Yes	D	ED4	48 x 30 x 17.5	240	\$20,815	V1
	50	142	40	115	EDP11S142DN1211000	No	E ⁵	ED5	72 x 36 x 18	300	\$25,541	V1
	60	180	50	142	EDP11S180DN1211000	No	E ⁵	ED5	72 x 36 x 18	300	\$31,874	V1
	75	211	60	180	EDP11S211DN1211000	No	E ⁵	ED5	72 x 36 x 18	300	\$36,414	V1
460 Vac	Input Power Supply: Three-Phase 460-480 Vac											
	2	3.6	2	3.6	EDP11S003GN1211000	Yes	A	ED2	30 x 24 x 14	36	\$8,783	V1
	3	5.0	3	5.0	EDP11S005GN1211000	Yes	A	ED2	30 x 24 x 14	36	\$8,899	V1
	5	7.0	3	5.5	EDP11S007GN1211000	Yes	A	ED2	30 x 24 x 14	41	\$8,963	V1
	7 1/2	10	5	10	EDP11S010GN1211000	Yes	A	ED2	30 x 24 x 14	42	\$9,039	V1
	10	13.5	7 1/2	11	EDP11S013GN1211000	Yes	A	ED2	30 x 24 x 14	42	\$9,138	V1
	10	17	10	13.5	EDP11S017GN1211000	Yes	B	ED2	30 x 24 x 14	56	\$9,630	V1
	15	24	10	19	EDP11S024GN1211000	Yes	B	ED2	30 x 24 x 14	56	\$10,376	V1
	20	31	15	25	EDP11S031GN1211000	Yes	B	ED2	30 x 24 x 14	56	\$11,246	V1
	25	38	20	33	EDP11S038GN1211000	Yes	C	ED3	36 x 30 x 14	90	\$12,158	V1
	30	45	25	38	EDP11S045GN1211000	Yes	C	ED3	36 x 30 x 14	104	\$13,432	V1
	40	58.5	30	47	EDP11S058GN1211000	Yes	C	ED3	36 x 30 x 14	110	\$15,484	V1
	50/60	70.5	40	61	EDP11S070GN1211000	Yes	D	ED4	48 x 30 x 17.5	240	\$16,187	V1
	75	88	50	73	EDP11S088GN1211000	Yes	D	ED4	48 x 30 x 17.5	245	\$18,639	V1
	75	105	75	88	EDP11S105GN1211000	No	E ⁵	ED5	72 x 36 x 18	300	\$22,071	V1
	100/125	142	75	115	EDP11S142GN1211000	No	E ⁵	ED5	72 x 36 x 18	300	\$26,463	V1
	150	180	100	142	EDP11S180GN1211000	No	E ⁵	ED5	72 x 36 x 18	300	\$33,044	V1
	175	211	125	180	EDP11S211GN1211000	No	E ⁵	ED5	72 x 36 x 18	300	\$37,733	V1
	200	242	150	211	EDP11S242GN1211000	No	F ⁵	ED7	83 x 64 x 37	700	\$54,097	V1
	250	312	200	242	EDP11S312GN1211000	No	F ⁵	ED7	83 x 64 x 37	720	\$60,115	V1
	300	370	250	312	EDP11S370GN1211000	No	F ⁵	ED7	83 x 64 x 37	750	\$63,004	V1
	400	477	300	370	EDP11S477GN1211000	No	F ⁵	ED7	83 x 64 x 37	775	\$77,476	V1
	450	515	400	477	EDP11S515GN1211000	No	G ⁵	ED9	83 x 95 x 37	1100	\$88,914	V1
	500	601	450	515	EDP11S601GN1211000	No	G ⁵	ED9	83 x 95 x 37	1120	\$100,305	V1
	600	720	500	560	EDP11S720GN1211000	No	G ⁶	ED9	83 x 95 x 37	1150	\$120,802	V1

Notes:
1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
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 and wall-mounted; ED6 - ED9 enclosures are ventilated and floor mounted.
5) Maximum 45°C ambient temperature without derating.
6) Maximum 40°C ambient temperature without derating.
7) 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.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

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A-353

EDP11 - ENGINEERED DRIVE PANEL

Enclosed VFD Panel - NEMA 3R Enclosure (no By-Pass)

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Dimensions (in.) HxWxD ⁷	Approx. Weight (lbs.) ⁷	List Price	Multiplier
	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	26.5 x 20 x 11.5	36	\$8,521	V1
	3	10	2	8.0	EDP11S010DN3R	Yes	A ⁵	ED1	26.5 x 20 x 11.5	36	\$8,587	V1
	5	13	3	11	EDP11S013DN3R	Yes	A ⁵	ED1	26.5 x 20 x 11.5	41	\$8,686	V1
	5	16	5	13	EDP11S016DN3R	Yes	A ⁵	ED1	26.5 x 20 x 11.5	42	\$8,918	V1
	7 1/2	24	7 1/2	20	EDP11S024DN3R	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$9,459	V1
	10	28	10	24	EDP11S028DN3R	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$10,202	V1
	10	33.5	10	28	EDP11S033DN3R	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$10,902	V1
	15	45	15	36	EDP11S045DN3R	Yes	C ⁵	ED2	32.5 x 24 x 14	88	\$12,122	V1
	20	54	20	45	EDP11S054DN3R	Yes	C ⁵	ED2	32.5 x 24 x 14	90	\$13,400	V1
	25	70	20	56	EDP11S070DN3R	Yes	C ⁵	ED2	32.5 x 24 x 14	100	\$14,162	V1
	30	86	25	70	EDP11S086DN3R	Yes	D ⁵	ED3	38.5 x 30 x 14	230	\$16,320	V1
	40	105	30	86	EDP11S105DN3R	Yes	D ⁵	ED3	38.5 x 30 x 14	240	\$19,338	V1
	50	142	40	115	EDP11S142DN3R	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$21,967	V1
	60	180	50	142	EDP11S180DN3R	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$27,290	V1
	75	211	60	180	EDP11S211DN3R	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$30,499	V1
460 Vac	Input Power Supply: Three-Phase 460-480 Vac											
	2	3.6	2	3.6	EDP11S003GN3R	Yes	A ⁵	ED1	26.5 x 20 x 11.5	36	\$8,341	V1
	3	5.0	3	5.0	EDP11S005GN3R	Yes	A ⁵	ED1	26.5 x 20 x 11.5	36	\$8,457	V1
	5	7.0	3	5.5	EDP11S007GN3R	Yes	A ⁵	ED1	26.5 x 20 x 11.5	41	\$8,521	V1
	7 1/2	10	5	10	EDP11S010GN3R	Yes	A ⁵	ED1	26.5 x 20 x 11.5	42	\$8,587	V1
	10	13.5	7 1/2	11	EDP11S013GN3R	Yes	A ⁵	ED1	26.5 x 20 x 11.5	42	\$8,686	V1
	10	17	10	13.5	EDP11S017GN3R	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$9,100	V1
	15	24	10	19	EDP11S024GN3R	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$9,652	V1
	20	31	15	25	EDP11S031GN3R	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$10,411	V1
	25	38	20	33	EDP11S038GN3R	Yes	C ⁵	ED2	32.5 x 24 x 14	90	\$11,125	V1
	30	45	25	38	EDP11S045GN3R	Yes	C ⁵	ED2	32.5 x 24 x 14	104	\$12,369	V1
	40	58.5	30	47	EDP11S058GN3R	Yes	C ⁵	ED2	32.5 x 24 x 14	110	\$13,673	V1
	50/60	70.5	40	61	EDP11S070GN3R	Yes	D ⁵	ED3	38.5 x 30 x 14	240	\$14,451	V1
	75	88	50	73	EDP11S088GN3R	Yes	D ⁵	ED3	38.5 x 30 x 14	245	\$16,653	V1
	75	105	75	88	EDP11S105GN3R	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$19,733	V1
	100/125	142	75	115	EDP11S142GN3R	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$22,415	V1
	150	180	100	142	EDP11S180GN3R	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$27,847	V1
	175	211	125	180	EDP11S211GN3R	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$31,122	V1
	200	242	150	211	EDP11S242GN3R	No	F ⁶	ED6	83 x 32 x 41	700	\$45,693	V1
	250	312	200	242	EDP11S312GN3R	No	F ⁶	ED6	83 x 32 x 41	720	\$50,053	V1
	300	370	250	312	EDP11S370GN3R	No	F ⁶	ED6	83 x 32 x 41	750	\$52,682	V1
	400	477	300	370	EDP11S477GN3R	No	F ⁶	ED6	83 x 32 x 41	775	\$59,523	V1
	450	515	400	477	EDP11S515GN3R	No	G ⁶	ED8	83 x 56 x 37	1100	\$71,976	V1
	500	601	450	515	EDP11S601GN3R	No	G ⁶	ED8	83 x 56 x 37	1120	\$77,828	V1
	600	720	500	560	EDP11S720GN3R	No	G ⁷	ED8	83 x 56 x 37	1150	\$94,509	V1

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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 - ED4 enclosures are non-ventilated and wall-mounted; ED6 - ED9 enclosures are ventilated and floor mounted.
 - 5) Maximum 45°C ambient temperature without derating
 - 6) Maximum 40°C ambient temperature without derating
 - 7) Maximum 38°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.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>



Enclosed VFD Panel - NEMA 3R Enclosure with By-Pass

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Dimensions (in.) HxWxD ⁷	Approx. Weight (lbs.) ⁷	List Price	Multiplier
	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	26.5 x 20 x 11.5	36	\$10,031	V1
	3	10	2	8.0	EDP11S010DN3R10000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	36	\$10,107	V1
	5	13	3	11	EDP11S013DN3R10000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	41	\$10,206	V1
	5	16	5	13	EDP11S016DN3R10000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	42	\$10,438	V1
	7 1/2	24	7 1/2	20	EDP11S024DN3R10000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$11,057	V1
	10	28	10	24	EDP11S028DN3R10000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$11,994	V1
	10	33.5	10	28	EDP11S033DN3R10000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$12,805	V1
	15	45	15	36	EDP11S045DN3R10000	Yes	C ⁵	ED3	32.5 x 24 x 14	88	\$14,224	V1
	20	54	20	45	EDP11S054DN3R10000	Yes	C ⁵	ED3	32.5 x 24 x 14	90	\$15,647	V1
	25	70	20	56	EDP11S070DN3R10000	Yes	C ⁵	ED3	32.5 x 24 x 14	100	\$16,857	V1
	30	86	25	70	EDP11S086DN3R10000	Yes	D ⁵	ED4	38.5 x 30 x 14	230	\$19,015	V1
	40	105	30	86	EDP11S105DN3R10000	Yes	D ⁵	ED4	38.5 x 30 x 14	240	\$22,226	V1
	50	142	40	115	EDP11S142DN3R10000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$26,952	V1
	60	180	50	142	EDP11S180DN3R10000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$33,285	V1
	75	211	60	180	EDP11S211DN3R10000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$37,824	V1
460 Vac	Input Power Supply: Three-Phase 460-480 Vac											
	2	3.6	2	3.6	EDP11S003GN3R10000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	36	\$9,851	V1
	3	5.0	3	5.0	EDP11S005GN3R10000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	36	\$9,967	V1
	5	7.0	3	5.5	EDP11S007GN3R10000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	41	\$10,031	V1
	7 1/2	10	5	10	EDP11S010GN3R10000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	42	\$10,107	V1
	10	13.5	7 1/2	11	EDP11S013GN3R10000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	42	\$10,206	V1
	10	17	10	13.5	EDP11S017GN3R10000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$10,698	V1
	15	24	10	19	EDP11S024GN3R10000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$11,444	V1
	20	31	15	25	EDP11S031GN3R10000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$12,314	V1
	25	38	20	33	EDP11S038GN3R10000	Yes	C ⁵	ED3	32.5 x 24 x 14	90	\$13,227	V1
	30	45	25	38	EDP11S045GN3R10000	Yes	C ⁵	ED3	32.5 x 24 x 14	104	\$14,616	V1
	40	58.5	30	47	EDP11S058GN3R10000	Yes	C ⁵	ED3	32.5 x 24 x 14	110	\$16,368	V1
	50/60	70.5	40	61	EDP11S070GN3R10000	Yes	D ⁵	ED4	38.5 x 30 x 14	240	\$17,146	V1
	75	88	50	73	EDP11S088GN3R10000	Yes	D ⁵	ED4	38.5 x 30 x 14	245	\$19,541	V1
	75	105	75	88	EDP11S105GN3R10000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$23,077	V1
	100/125	142	75	115	EDP11S142GN3R10000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$27,400	V1
	150	180	100	142	EDP11S180GN3R10000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$33,842	V1
	175	211	125	180	EDP11S211GN3R10000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$38,447	V1
	200	242	150	211	EDP11S242GN3R10000	No	F ⁶	ED7	83 x 32 x 41	700	\$58,272	V1
	250	312	200	242	EDP11S312GN3R10000	No	F ⁶	ED7	83 x 32 x 41	720	\$64,196	V1
	300	370	250	312	EDP11S370GN3R10000	No	F ⁶	ED7	83 x 32 x 41	750	\$67,085	V1
	400	477	300	370	EDP11S477GN3R10000	No	F ⁶	ED7	83 x 32 x 41	775	\$81,556	V1
	450	515	400	477	EDP11S515GN3R10000	No	G ⁶	ED9	83 x 56 x 37	1100	\$94,009	V1
	500	601	450	515	EDP11S601GN3R10000	No	G ⁶	ED9	83 x 56 x 37	1120	\$105,400	V1
	600	720	500	560	EDP11S720GN3R10000	No	G ⁷	ED9	83 x 56 x 37	1150	\$125,897	V1

VFDs and Enclosed Motor Controls

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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 - ED4 enclosures are non-ventilated and wall-mounted; ED6 - ED9 enclosures are ventilated and floor mounted.
 - 5) Maximum 45°C ambient temperature without derating
 - 6) Maximum 40°C ambient temperature without derating
 - 7) Maximum 38°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.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Enclosed VFD Panel - NEMA 3R Enclosure (no By-Pass) with HOA / Pot / TB

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Dimensions (in.) HxWxD ⁷	Approx. Weight (lbs.) ⁷	List Price	Multiplier
	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	26.5 x 20 x 11.5	36	\$9,284	V1
	3	10	2	8.0	EDP11S010DN3R01000	Yes	A ⁵	ED1	26.5 x 20 x 11.5	36	\$9,350	V1
	5	13	3	11	EDP11S013DN3R01000	Yes	A ⁵	ED1	26.5 x 20 x 11.5	41	\$9,449	V1
	5	16	5	13	EDP11S016DN3R01000	Yes	A ⁵	ED1	26.5 x 20 x 11.5	42	\$9,681	V1
	7 1/2	24	7 1/2	20	EDP11S024DN3R01000	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$10,222	V1
	10	28	10	24	EDP11S028DN3R01000	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$10,965	V1
	10	33.5	10	28	EDP11S033DN3R01000	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$11,665	V1
	15	45	15	36	EDP11S045DN3R01000	Yes	C ⁵	ED2	32.5 x 24 x 14	88	\$12,885	V1
	20	54	20	45	EDP11S054DN3R01000	Yes	C ⁵	ED2	32.5 x 24 x 14	90	\$14,163	V1
	25	70	20	56	EDP11S070DN3R01000	Yes	C ⁵	ED2	32.5 x 24 x 14	100	\$14,925	V1
	30	86	25	70	EDP11S086DN3R01000	Yes	D ⁵	ED3	38.5 x 30 x 14	230	\$17,083	V1
	40	105	30	86	EDP11S105DN3R01000	Yes	D ⁵	ED3	38.5 x 30 x 14	240	\$20,101	V1
	50	142	40	115	EDP11S142DN3R01000	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$22,730	V1
	60	180	50	142	EDP11S180DN3R01000	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$28,053	V1
	75	211	60	180	EDP11S211DN3R01000	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$31,262	V1
460 Vac	Input Power Supply: Three-Phase 460-480 Vac											
	2	3.6	2	3.6	EDP11S003GN3R01000	Yes	A ⁵	ED1	26.5 x 20 x 11.5	36	\$9,104	V1
	3	5.0	3	5.0	EDP11S005GN3R01000	Yes	A ⁵	ED1	26.5 x 20 x 11.5	36	\$9,220	V1
	5	7.0	3	5.5	EDP11S007GN3R01000	Yes	A ⁵	ED1	26.5 x 20 x 11.5	41	\$9,284	V1
	7 1/2	10	5	10	EDP11S010GN3R01000	Yes	A ⁵	ED1	26.5 x 20 x 11.5	42	\$9,350	V1
	10	13.5	7 1/2	11	EDP11S013GN3R01000	Yes	A ⁵	ED1	26.5 x 20 x 11.5	42	\$9,449	V1
	10	17	10	13.5	EDP11S017GN3R01000	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$9,863	V1
	15	24	10	19	EDP11S024GN3R01000	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$10,415	V1
	20	31	15	25	EDP11S031GN3R01000	Yes	B ⁵	ED1	26.5 x 20 x 11.5	56	\$11,174	V1
	25	38	20	33	EDP11S038GN3R01000	Yes	C ⁵	ED2	32.5 x 24 x 14	90	\$11,888	V1
	30	45	25	38	EDP11S045GN3R01000	Yes	C ⁵	ED2	32.5 x 24 x 14	104	\$13,132	V1
	40	58.5	30	47	EDP11S058GN3R01000	Yes	C ⁵	ED2	32.5 x 24 x 14	110	\$14,436	V1
	50/60	70.5	40	61	EDP11S070GN3R01000	Yes	D ⁵	ED3	38.5 x 30 x 14	240	\$15,214	V1
	75	88	50	73	EDP11S088GN3R01000	Yes	D ⁵	ED3	38.5 x 30 x 14	245	\$17,416	V1
	75	105	75	88	EDP11S105GN3R01000	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$20,496	V1
	100/125	142	75	115	EDP11S142GN3R01000	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$23,178	V1
	150	180	100	142	EDP11S180GN3R01000	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$28,610	V1
	175	211	125	180	EDP11S211GN3R01000	No	E ⁶	ED4	50.5 x 30 x 17.5	300	\$31,885	V1
	200	242	150	211	EDP11S242GN3R01000	No	F ⁶	ED6	83 x 32 x 41	700	\$46,456	V1
	250	312	200	242	EDP11S312GN3R01000	No	F ⁶	ED6	83 x 32 x 41	720	\$50,911	V1
	300	370	250	312	EDP11S370GN3R01000	No	F ⁶	ED6	83 x 32 x 41	750	\$53,540	V1
	400	477	300	370	EDP11S477GN3R01000	No	F ⁶	ED6	83 x 32 x 41	775	\$60,381	V1
	450	515	400	477	EDP11S515GN3R01000	No	G ⁶	ED8	83 x 56 x 37	1100	\$72,834	V1
	500	601	450	515	EDP11S601GN3R01000	No	G ⁶	ED8	83 x 56 x 37	1120	\$78,686	V1
	600	720	500	560	EDP11S720GN3R01000	No	G ⁷	ED8	83 x 56 x 37	1150	\$95,367	V1

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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 - ED4 enclosures are non-ventilated and wall-mounted; ED6 - ED9 enclosures are ventilated and floor mounted.
 - 5) Maximum 45°C ambient temperature without derating
 - 6) Maximum 40°C ambient temperature without derating
 - 7) Maximum 38°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.

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.



Enclosed VFD Panel - NEMA 3R Enclosure with By-Pass and HOA / Pot / TB

Motor Voltage	ND / VT ¹		HD / CT ¹		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size ⁴	Dimensions (in.) HxWxD ⁷	Approx. Weight (lbs.) ⁷	List Price	Multiplier
	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	26.5 x 20 x 11.5	36	\$10,794	V1
	3	10	2	8.0	EDP11S010DN3R11000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	36	\$10,870	V1
	5	13	3	11	EDP11S013DN3R11000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	41	\$10,969	V1
	5	16	5	13	EDP11S016DN3R11000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	42	\$11,201	V1
	7 1/2	24	7 1/2	20	EDP11S024DN3R11000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$11,820	V1
	10	28	10	24	EDP11S028DN3R11000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$12,757	V1
	10	33.5	10	28	EDP11S033DN3R11000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$13,568	V1
	15	45	15	36	EDP11S045DN3R11000	Yes	C ⁵	ED3	32.5 x 24 x 14	88	\$14,987	V1
	20	54	20	45	EDP11S054DN3R11000	Yes	C ⁵	ED3	32.5 x 24 x 14	90	\$16,410	V1
	25	70	20	56	EDP11S070DN3R11000	Yes	C ⁵	ED3	32.5 x 24 x 14	100	\$17,620	V1
	30	86	25	70	EDP11S086DN3R11000	Yes	D ⁵	ED4	38.5 x 30 x 14	230	\$19,778	V1
	40	105	30	86	EDP11S105DN3R11000	Yes	D ⁵	ED4	38.5 x 30 x 14	240	\$22,989	V1
	50	142	40	115	EDP11S142DN3R11000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$27,715	V1
	60	180	50	142	EDP11S180DN3R11000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$34,048	V1
	75	211	60	180	EDP11S211DN3R11000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$38,587	V1
460 Vac	Input Power Supply: Three-Phase 460-480 Vac											
	2	3.6	2	3.6	EDP11S003GN3R11000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	36	\$10,614	V1
	3	5.0	3	5.0	EDP11S005GN3R11000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	36	\$10,730	V1
	5	7.0	3	5.5	EDP11S007GN3R11000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	41	\$10,794	V1
	7 1/2	10	5	10	EDP11S010GN3R11000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	42	\$10,870	V1
	10	13.5	7 1/2	11	EDP11S013GN3R11000	Yes	A ⁵	ED2	26.5 x 20 x 11.5	42	\$10,969	V1
	10	17	10	13.5	EDP11S017GN3R11000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$11,461	V1
	15	24	10	19	EDP11S024GN3R11000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$12,207	V1
	20	31	15	25	EDP11S031GN3R11000	Yes	B ⁵	ED2	26.5 x 20 x 11.5	56	\$13,077	V1
	25	38	20	33	EDP11S038GN3R11000	Yes	C ⁵	ED3	32.5 x 24 x 14	90	\$13,873	V1
	30	45	25	38	EDP11S045GN3R11000	Yes	C ⁵	ED3	32.5 x 24 x 14	104	\$15,233	V1
	40	58.5	30	47	EDP11S058GN3R11000	Yes	C ⁵	ED3	32.5 x 24 x 14	110	\$16,683	V1
	50/60	70.5	40	61	EDP11S070GN3R11000	Yes	D ⁵	ED4	38.5 x 30 x 14	240	\$17,909	V1
	75	88	50	73	EDP11S088GN3R11000	Yes	D ⁵	ED4	38.5 x 30 x 14	245	\$20,304	V1
	75	105	75	88	EDP11S105GN3R11000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$23,840	V1
	100/125	142	75	115	EDP11S142GN3R11000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$28,163	V1
	150	180	100	142	EDP11S180GN3R11000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$34,605	V1
	175	211	125	180	EDP11S211GN3R11000	No	E ⁶	ED5	50.5 x 30 x 17.5	300	\$39,210	V1
	200	242	150	211	EDP11S242GN3R11000	No	F ⁶	ED7	83 x 32 x 41	700	\$59,035	V1
	250	312	200	242	EDP11S312GN3R11000	No	F ⁶	ED7	83 x 32 x 41	720	\$65,054	V1
	300	370	250	312	EDP11S370GN3R11000	No	F ⁶	ED7	83 x 32 x 41	750	\$67,943	V1
	400	477	300	370	EDP11S477GN3R11000	No	F ⁶	ED7	83 x 32 x 41	775	\$82,414	V1
	450	515	400	477	EDP11S515GN3R11000	No	G ⁶	ED9	83 x 56 x 37	1100	\$94,867	V1
	500	601	450	515	EDP11S601GN3R11000	No	G ⁶	ED9	83 x 56 x 37	1120	\$106,258	V1
	600	720	500	560	EDP11S720GN3R11000	No	G ⁷	ED9	83 x 56 x 37	1150	\$126,755	V1

VFDs and Enclosed Motor Controls

Notes:

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
 - 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 - ED4 enclosures are non-ventilated and wall-mounted; ED6 - ED9 enclosures are ventilated and floor mounted.
 - 5) Maximum 45°C ambient temperature without derating
 - 6) Maximum 40°C ambient temperature without derating
 - 7) Maximum 38°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.

Please refer to back cover for description of "NOTES"

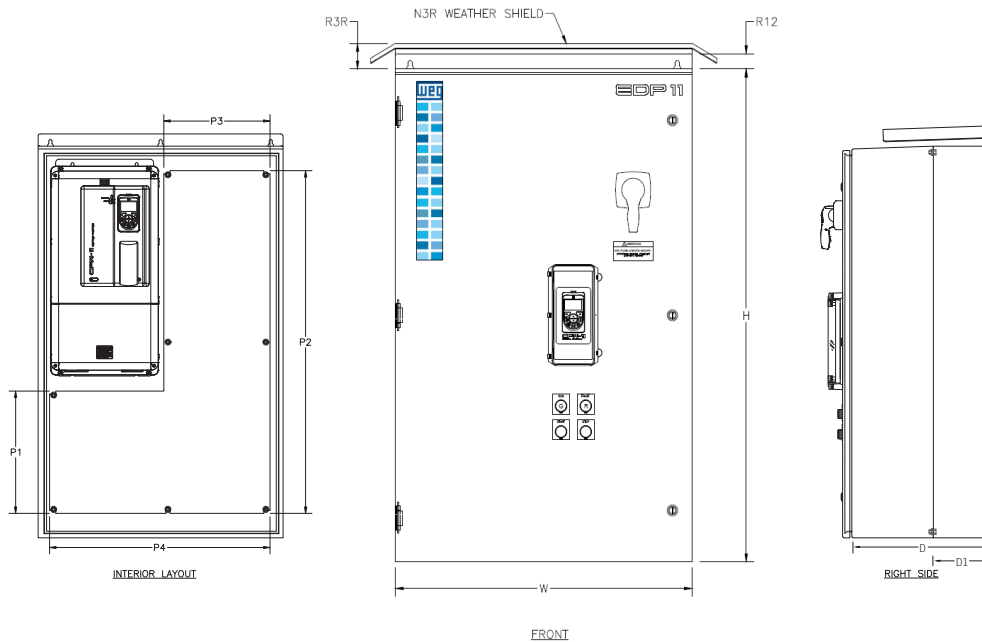
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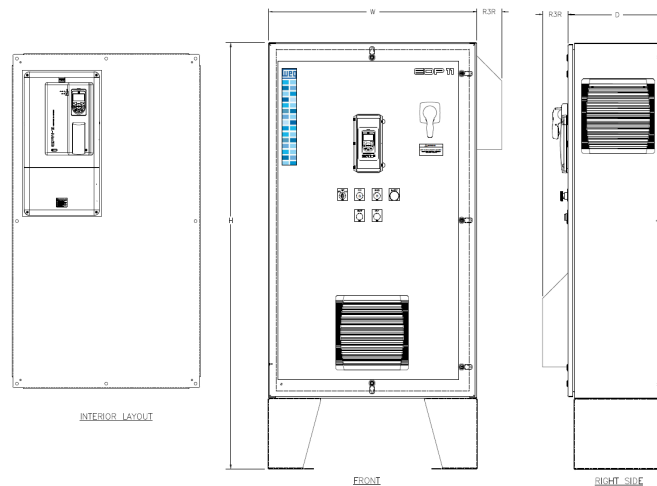
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A-357

ED 1, 2, 3, 4



ED 5



Dimensions ⁵

Frame	H	W	D	D1	R3R ¹	R12 ²
ED1 ⁴	24	20	11.5	2.8	2.5	1.5
ED2 ⁴	30	24	14	5.4	2.5	1.5
ED3 ⁴	36	30	14	5.5	2.5	1.5
ED4 ⁴	48	30	17.5	6.8	2.5	1.5
ED5 ³	72	36	16	N/A	4	N/A

NOTSE:

1) For NEMA 3R cabinet

2) For NEMA 12 Cabinet

3) ED5 "H" Dimension includes 12" for legs

4) ED1 - ED4 enclosures are non-ventilated and wall-mounted; ED5 enclosures are non-ventilated and floor mounted.

5) Dimensions are provided for estimating purposes only.

*For NEMA 3R cabinet **For NEMA 12 cabinet

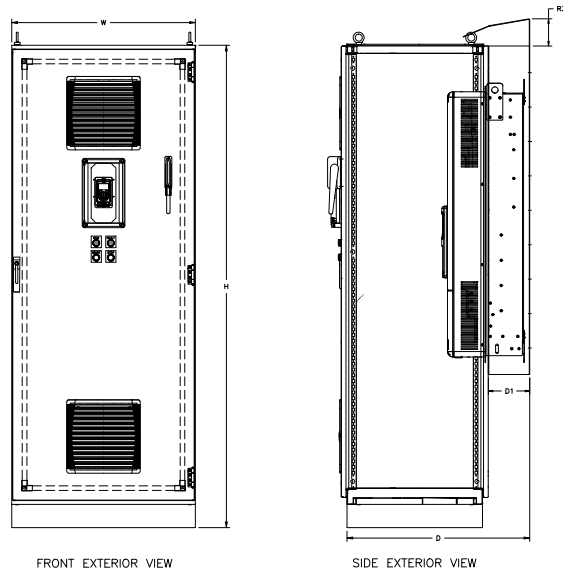
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For detailed specifications, data sheets, drawings and performance curves visit [http:// www.weg.net](http://www.weg.net)

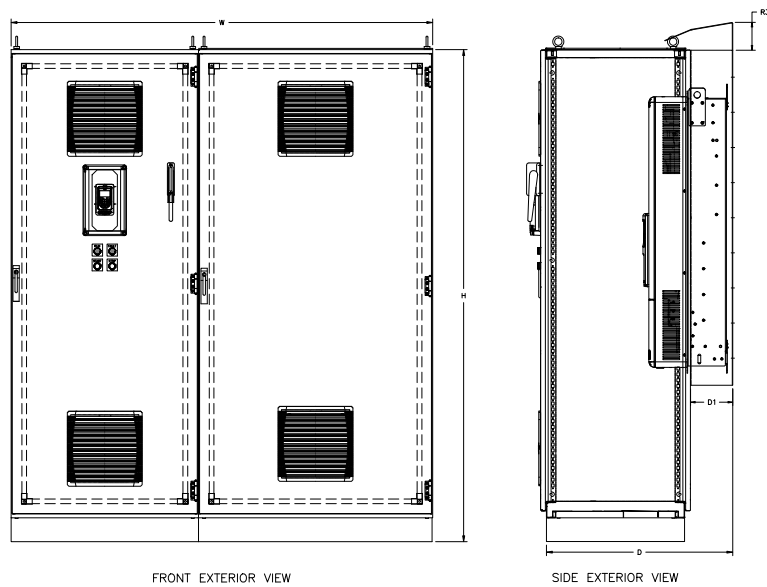
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Enclosure Frame Size

ED 6



ED 7, 8, 9



Dimensions

Frame	H	W	D(N12)	D(N3R)	D1(N12)	D1(N3R)	R3R	N12
ED6	83	32	31.4	41	6.2	11.4	2.5	1.5
ED7	83	63	31.4	41	6.2	11.4	2.5	1.5
ED8	83	56	31.9	41	7.5	11.4	2.5	1.5
ED9	83	95	31.9	41	7.5	11.4	2.5	1.5

NOTE: ED5 - ED9 enclosures are ventilated and floor-mounted

GPH2

The Combination Soft Starter is a NEMA 4/12 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 – 175HP at 230V
- 10 – 350HP at 460V
- Wall mounted enclosures for up to 125HP @ 230V; 250HP@460V
- Floor Mounted enclosure for up to 150 – 175HP @ 230V, and 300 – 350HP @ 460V
- Soft Starter
- SSW07 from 17 to 412Amps (all models with integrated AC1 by-pass)
- Circuit Breaker with Through Door Disconnect
- Control Power Transformer
- Start/Stop Pushbuttons
- Run/Fault Pilot Lights
- SuperDrive G2 Compatible

Note:
SSW07 models do not include keypad

Applications

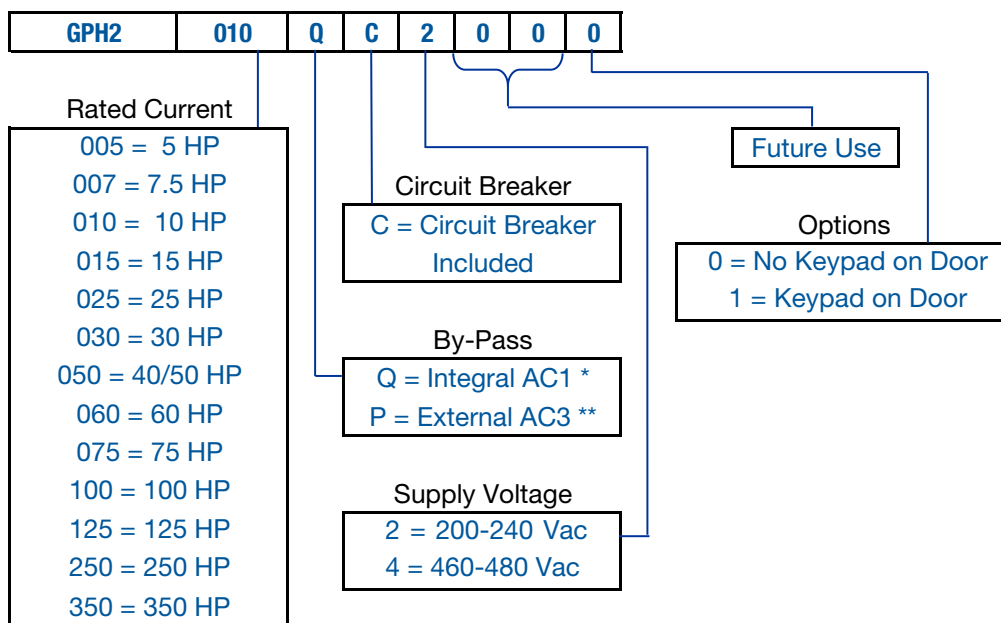
- Centrifugal Pumps
- Screw Compressors
- Centrifugal Fans
- Wood Chipper
- Veneer Lathe
- Saw
- Conveyor

Optional Features

- AC3 by-pass contactor and DOL Selector Switch
- Door mounted keypad
- 575V



GPH2 Catalog Number Sequence



* Bypass Contactor is 'Run Rated' and is integral to the soft starter

** Bypass Contactor is 'Full Rated' and mounted adjacent the soft starter inside the panel.

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

GHP2 - COMBINATION SOFT STARTER

**NEMA 4 / 12 Enclosure (Standard Version - with Circuit Breaker,
Integral AC1 By-Pass and no Keypad on Door)**

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

Please refer to back cover for description of "NOTES"

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Data subject to change without notice.



NEMA 4 / 12 Enclosure (with Circuit Breaker, Integral AC1 By-Pass and Keypad on Door)

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

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Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

GHP2 - COMBINATION SOFT STARTER

**NEMA 4 / 12 Enclosure (with Circuit Breaker,
External AC3 By-Pass and no Keypad on Door)**

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

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NEMA 4 / 12 Enclosure (with Circuit Breaker, External AC3 By-Pass and Keypad on Door)

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

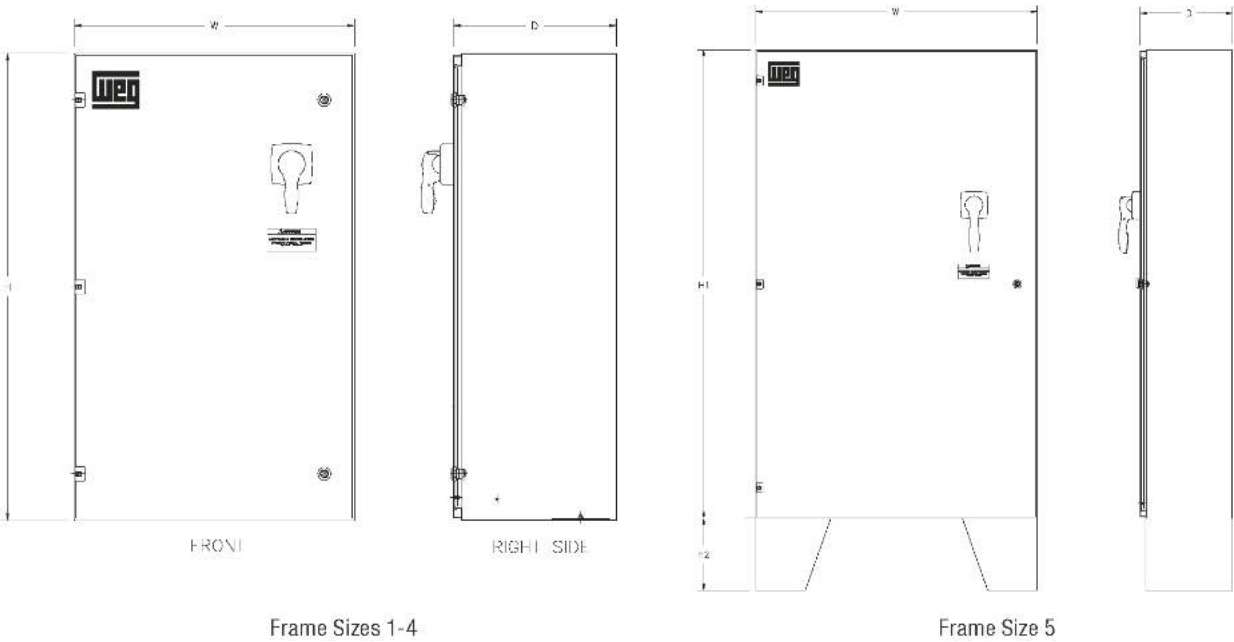
Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

GPH2 Dimensions



GPH Dimensions

Frame	W	D	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: H1 + H2 = overall height

Enclosed Starters

Operation and Protection of Motors up to 600Hp at 460Vac (800A)

WEG enclosed starters series were designed to meet the requirements and flexibility frequently demanded in industrial applications. Featuring components that meet IEC design standards and UL horsepower ratings, WEG enclosed starters are UL508A approved and cULus certified. This means your panels will fulfill the rigorous requirements of UL508A and will have the quality and performance as for all WEG products



Standard or Custom

By having most of the processes in WEG facilities we can manufacture not only the enclosed starters listed on this catalog, but also any other custom panel your application may require. Our Engineers will work together with you to provide the perfect solution for your application.



Perfect Solution

WEG offers options for both: Full Voltage Non-Reversing Non-Combination Starters and Full Voltage Non-Reversing Combination Starters up to 250Hp at 460Vac.

WEG's UL508A panel shops can manufacture any configuration of Non-Combination or Combination Starters for any low voltage horsepower ratings. Some examples are listed below:

- Enclosed Contactors
- Full Voltage Reversing Starters
- Reduced Voltage Magnetic Starters
(Part-Winding, Wye-Delta)
- Reduced Voltage Solid-State Starters
- Multi-Speed Starters
- Explosion Proof Starters

Whenever you need a reliable product to control & protect your application, WEG field specialists can help you find the best solution.

New Concepts

Smaller size components allow selection of smaller enclosures which translates to cost savings. A wide range of ratings and frames allow the components to be more closely matched to your application. Our overload relays provide phase loss sensitivity, ambient temperature compensated for -4F to +140F (eliminating the need for additional heaters), and automatic reset for remote applications.

A wide range of industrial applications are covered: Pumps, Industrial Washing Machines, Compressors, Blowers, Cutting Machines, Conveyors, Lumber Processing and many others.

VFDs and
Enclosed Motor
Controls



Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

NON-COMBINATION STARTERS

Type		ESW	PESW	ESWX-M	ESWX-M	ESWX
						
Maximum Horsepower Rating at 460Vac 60Hz	[Hp]	75	75	10	75	75
Maximum Rated Current I _{max} (Iu)	[A]	105	105	16	105	105
Rated Operational Voltage	[V]	600	600	600	600	600
Enclosure Type		Metallic Type 1	Non-Metallic Type 4X	Cast Aluminum NEMA 7/9 NEMA 4X	Cast Aluminum Type 7/9	Cast Aluminum Type 7/9
Protections provided						
Motor Disconnect				✓	✓	
Motor Branch Short Circuit				✓	✓	
Motor Controller		✓	✓	✓	✓	✓
Motor Overload		✓	✓	✓	✓	✓
Accessories						
Pushbuttons		N/A	N/A	N/A	N/A	
Pilot light		N/A	N/A	N/A	N/A	
Emergency Stop		N/A	N/A	N/A	N/A	
Selector Switch		N/A	N/A	N/A	N/A	
Control Transformer		N/A	N/A	N/A	N/A	(available as an option)
Timing Relays (RTW Series)		N/A	N/A	N/A	N/A	(available as an option)
Protector Relay (RPW Series)		N/A	N/A	N/A	N/A	(available as an option)
Level Relay (RNW Series)		N/A	N/A	N/A	N/A	(available as an option)

Product Line Overview

COMBINATION STARTERS

Type	ESWC	ESWE	ESWF
			
Maximum Horsepower Rating at 460Vac 60Hz [Hp]	250	20	75
Maximum Rated Current I_{max} (I_u) [A]	300	32	105
Rated Operational Voltage [V]	600	600	600
Enclosure Type	Metallic Type 1 Type 3R Type 4 / 12	Non-Metallic Type 4X	Metallic Type 4 / 12
Protections provided			
Motor Disconnect	✓	✓	✓
Motor Branch Short Circuit	✓	✓	✓
Motor Controller	✓	✓	✓
Motor Overload	✓	✓	✓

Accessories

Pushbuttons		
Pilot light		
Emergency Stop		
Selector Switch		
Control Transformer	(available as an option)	(available as an option)
Timing Relays (RTW Series)	(available as an option)	
Protector Relay (RPW Series)	(available as an option)	
Level Relay (RNW Series)	(available as an option)	

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

Non-Combination Starters

ESW/PESW



UL File No. E202315

WEG offers non-reversing and non-combination magnetic starters up to 75HP at 460Vac (105A). Featuring components that meet IEC design standards and UL horsepower ratings, incorporating WEG contactors and overload relays, the magnetic starters are ideal to protect and operate motors, ensuring smooth operation year-after year.

Three series are available:

- Metallic Type 1 – ESW Series
- Non-Metallic Type 4X – PESW Series
- Metallic Type NEMA 7/9 - ESWX Series (page A-386)

WEG ESW and PESW starters are pre-wired from the factory and recommended for all single and three phase applications where magnetic starters can be applied.

Standard Features

- High horsepower ratings in four compact sizes
- Fast acceleration and high initial torque
- Bimetallic Overload Relays – class 10
- Adjustable trip current
- Ambient temperature compensated
- Phase-loss sensitivity protection
- Selectable Manual or Automatic RESET
- Electrically isolated NO-NC auxiliary contacts
- Easy to install and setup



Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit [http:// www.weg.net](http://www.weg.net)

ESW Part Number Breakdown

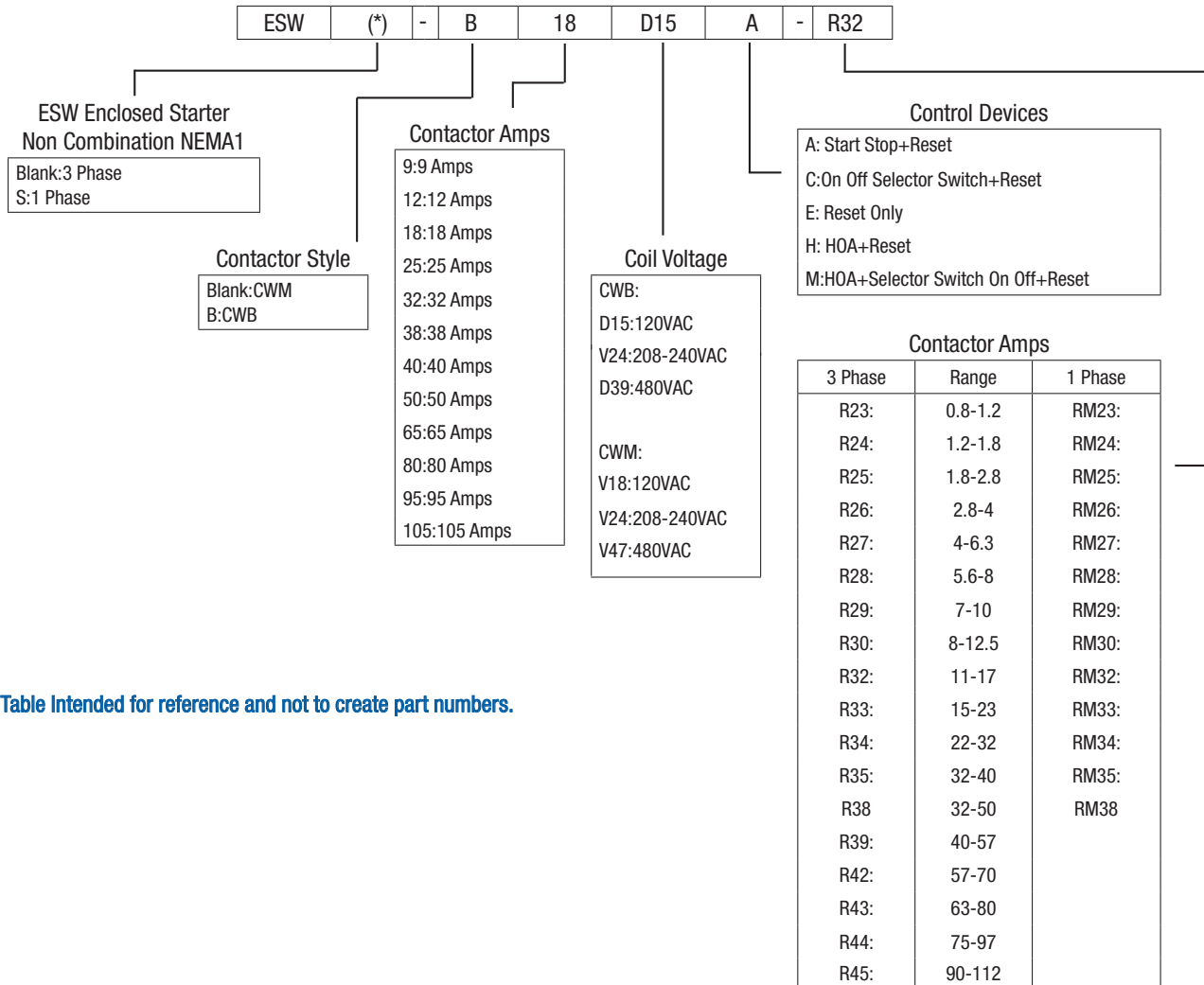


Table Intended for reference and not to create part numbers.

NEMA 1 Enclosure – Three Phase

ESW Series - Non-combination Across The Line Starter Three -Phase - Enclosure Type-1

Max. UL Horsepower				Box	Setting Range	Coil Voltage	RESET only		START/STOP + RESET		Multiplier		
200V	230V	460V	575V				Catalog Number	List Price	Catalog Number	List Price			
-	-	1/2	1/2	M04	0.8 - 1.2	120 208-240 480	ESW-B9D15E-R23 ESW-B9V24E-R23 ESW-B9D39E-R23	\$157	ESW-B9D15A-R23 ESW-B9V24A-R23 ESW-B9D39A-R23	\$210	Z3		
-	-	3/4	1	M04	1.2 - 1.8	120 208-240 480	ESW-B9D15E-R24 ESW-B9V24E-R24 ESW-B9D39E-R24		\$157			ESW-B9D15A-R24 ESW-B9V24A-R24 ESW-B9D39A-R24	\$210
1/2	1/2	1	2	M04	1.8 - 2.8	120 208-240 480	ESW-B9D15E-R25 ESW-B9V24E-R25 ESW-B9D39E-R25					\$157	
3/4	3/4	2	3	M04	2.8 - 4.0	120 208-240 480	ESW-B9D15E-R26 ESW-B9V24E-R26 ESW-B9D39E-R26	\$157		ESW-B9D15A-R26 ESW-B9V24A-R26 ESW-B9D39A-R26			
1	1-1/2	3	5	M04	4.0 -6.3	120 208-240 480	ESW-B9D15E-R27 ESW-B9V24E-R27 ESW-B9D39E-R27		\$157	ESW-B9D15A-R27 ESW-B9V24A-R27 ESW-B9D39A-R27			\$210
2	2	5	5	M04	5.6 - 8.0	120 208-240 480	ESW-B9D15E-R28 ESW-B9V24E-R28 ESW-B9D39E-R28			\$157		ESW-B9D15A-R28 ESW-B9V24A-R28 ESW-B9D39A-R28	
2	3	5	7-1/2	M04	7.0 - 10	120 208-240 480	ESW-B9D15E-R29 ESW-B9V24E-R29 ESW-B9D39E-R29	\$157				ESW-B9D15A-R29 ESW-B9V24A-R29 ESW-B9D39A-R29	
3	3	7-1/2	10	M04	8.0 - 12.5	120 208-240 480	ESW-B12D15E-R30 ESW-B12V24E-R30 ESW-B12D39E-R30		\$174			ESW-B12D15A-R30 ESW-B12V24A-R30 ESW-B12D39A-R30	\$227
3	5	10	15	M04	11 - 17	120 208-240 480	ESW-B18D15E-R32 ESW-B18V24E-R32 ESW-B18D39E-R32			\$188		ESW-B18D15A-R32 ESW-B18V24A-R32 ESW-B18D39A-R32	
5	7-1/2	15	15	M04	15 -23	120 208-240 480	ESW-B25D15E-R33 ESW-B25V24E-R33 ESW-B25D39E-R33	\$223				ESW-B25D15A-R33 ESW-B25V24A-R33 ESW-B25D39A-R33	
10	10	20	25	M04	22 -32	120 208-240 480	ESW-B32D15E-R34 ESW-B32V24E-R34 ESW-B32D39E-R34		\$245			ESW-B32D15A-R34 ESW-B32V24A-R34 ESW-B32D39A-R34	\$298
10	10	25	25	M04	32-40	120 208-240 480	ESW-B38D15E-R35 ESW-B38V24E-R35 ESW-B38D39E-R35			\$292		ESW-B38D15A-R35 ESW-B38V24A-R35 ESW-B38D39A-R35	
10	10	25	25	M06	32-40	120 208-240 480	ESW-40V18E-R35 ESW-40V24E-R35 ESW-40V47E-R35	\$292				ESW-40V18A-R35 ESW-40V24A-R35 ESW-40V47A-R35	
15	15	30	40	M06	32 - 50	120 208-240 480	ESW-50V18E-R38 ESW-50V24E-R38 ESW-50V47E-R38		\$350			ESW-50V18A-R38 ESW-50V24A-R38 ESW-50V47A-R38	\$403
15	20	40	50	M06	40 - 57	120 208-240 480	ESW-65V18E-R39 ESW-65V24E-R39 ESW-65V47E-R39			\$375		ESW-65V18A-R39 ESW-65V24A-R39 ESW-65V47A-R39	
20	25	50	60	M06	57 - 70	120 208-240 480	ESW-80V18E-R41 ESW-80V24E-R41 ESW-80V47E-R41	\$421				ESW-80V18A-R41 ESW-80V24A-R41 ESW-80V47A-R41	
25	30	60	75	M08	63 - 80	120 208-240 480	ESW-95V18E-R43 ESW-95V24E-R43 ESW-95V47E-R43		\$876			ESW-95V18A-R43 ESW-95V24A-R43 ESW-95V47A-R43	\$929
30	30	75	75	M08	75 - 97	120 208-240 480	ESW-105V18E-R44 ESW-105V24E-R44 ESW-105V47E-R44			\$975		ESW-105V18A-R44 ESW-105V24A-R44 ESW-105V47A-R44	
30	40	75	-	M08	90 - 112	120 208-240 480	ESW-105V18E-R45 ESW-105V24E-R45 ESW-105V47E-R45	\$975				ESW-105V18A-R45 ESW-105V24A-R45 ESW-105V47A-R45	

Notes:

- 1) Please contact your local WEG representative for starters with other control voltage.
- 2) 3-phase starters can be wired for single-phase applications (see page 241 for single phase conversion diagram)

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit [http:// www.weg.net](http://www.weg.net)



NEMA 1 Enclosure – Single Phase

ESW Series - Non-combination Across The Line Starter - Non Reversing Single Phase - Enclosure Type-1

Max. UL Horsepower		Box	Setting Range	Coil Voltage	RESET only		Start Stop Reset		Multiplier All Models
115V	230V				Catalog Number	List Price	Catalog Number	List Price	
—	—	M04	0.8-1.2	120	ESWS-B9D15E-RM23	\$135	ESWS-B9D15A-RM23	\$188	Z3
				208-240	ESWS-B9V24E-RM23		ESWS-B9V24A-RM23		
—	1/10	M04	1.2-1.8	120	ESWS-B9D15E-RM24	\$135	ESWS-B9D15A-RM24	\$188	
				208-240	ESWS-B9V24E-RM24		ESWS-B9V24A-RM24		
—	1/6	M04	1.8-2.8	120	ESWS-B9D15E-RM25	\$135	ESWS-B9D15A-RM25	\$188	
				208-240	ESWS-B9V24E-RM25		ESWS-B9V24A-RM25		
1/8	1/3	M04	2.8 - 4.0	120	ESWS-B9D15E-RM26	\$135	ESWS-B9D15A-RM26	\$188	
				208-240	ESWS-B9V24E-RM26		ESWS-B9V24A-RM26		
1/4	1/2	M04	4.0 - 6.3	120	ESWS-B9D15E-RM27	\$135	ESWS-B9D15A-RM27	\$188	
				208-240	ESWS-B9V24E-RM27		ESWS-B9V24A-RM27		
1/3	1	M04	5.6 - 8.0	120	ESWS-B9D15E-RM28	\$135	ESWS-B9D15A-RM28	\$188	
				208-240	ESWS-B9V24E-RM28		ESWS-B9V24A-RM28		
1/2	1-1/2	M04	7.0 - 10	120	ESWS-B9D15E-RM29	\$135	ESWS-B9D15A-RM29	\$188	
				208-240	ESWS-B9V24E-RM29		ESWS-B9V24A-RM29		
1/2	2	M04	8.0 - 12.5	120	ESWS-B12D15E-RM30	\$135	ESWS-B12D15A-RM30	\$227	
				208-240	ESWS-B12V24E-RM30		ESWS-B12V24A-RM30		
3/4	2	M04	10-15	120	ESWS-B18D15E-RM31	\$161	ESWS-B18D15A-RM31	\$241	
				208-240	ESWS-B18V24E-RM31		ESWS-B18V24A-RM31		
1	3	M04	11 - 17	120	ESWS-B18D15E-RM32	\$170	ESWS-B18D15A-RM32	\$241	
				208-240	ESWS-B18V24E-RM32		ESWS-B18V24A-RM32		
1-1/2	3	M04	15 -23	120	ESWS-B25D15E-RM33	\$180	ESWS-B25D15A-RM33	\$276	
				208-240	ESWS-B25V24E-RM33		ESWS-B25V24A-RM33		
2	5	M04	22 -32	120	ESWS-B32D15E-RM34	\$230	ESWS-B32D15A-RM34	\$276	
				208-240	ESWS-B32V24E-RM34		ESWS-B32V24A-RM34		
3	7-1/2	M04	32-40	120	ESWS-B38D15E-RM35	\$274	ESWS-B38D15A-RM35	\$327	
				208-240	ESWS-B38V24E-RM35		ESWS-B38V24A-RM35		
3	7-1/2	M06	25 - 40	120	ESWS-40V18E-RM35	\$274	ESWS-40V18A-RM35	\$351	
				208-240	ESWS-40V24E-RM35		ESWS-40V24A-RM35		
3	10	M06	32 - 50	120	ESWS-50V18E-RM38	\$330	ESWS-50V18A-RM38	\$423	
				208-240	ESWS-50V24E-RM38		ESWS-50V24A-RM38		

Notes: 1) OLR must be set at 115% of motor FLA

ESWS - Single-phase version - assembled with 2 pole contactor and 2 pole overload relays

Field Mod Kits for ESW/ESWS Series

Accessories		Field Kit Modifications			
Description	Structure		Catalog Number	List Price	Multiplier
	Top	Bottom			
No Pilot Device Metal Brackets - 2 x 22mm holes w/ plugs	PLUG	PLUG	KESWPP	\$25	Z3
Start / Stop Pushbutton	PLUG	START - STOP	KESWPS	\$80	
Hand-Off-Auto Selector Switch	HAND - OFF - AUTO	PLUG	KESWHP	\$80	
Off-On Selector Switch	OFF - ON	PLUG	KESWFP	\$80	
E-stop	PLUG	E-STOP	KESWPE	\$80	



KESWPP



KESWPS



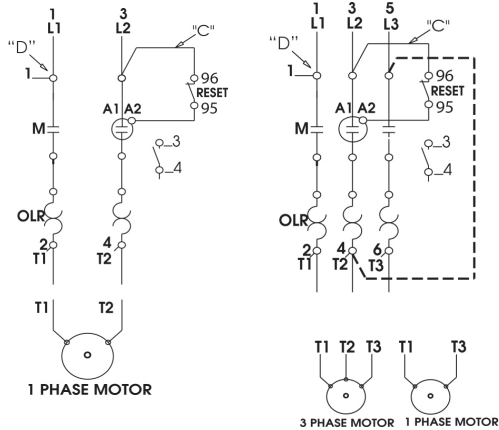
KESWHP



KESWFP

WIRING DIAGRAM

Single-phase Starter Three-phase Starter



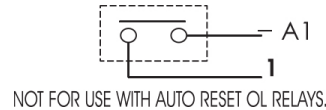
Conversion to single-phase,
add jumper wire from L3
to T2 (follow dotted line
connection above)

Separate Control

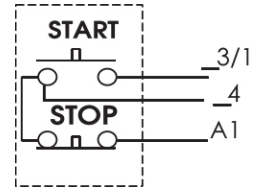
FOR SEPARATE CONTROL, REMOVE WIRES "C" AND "D" IF SUPPLIED AND CONNECT SEPARATE CONTROL LINES TO TERMINAL N° 96 ON THE OVERLOAD RELAY AND TO TERMINAL N° 3 ON THE AUX. CONTACT BLOCK (FOR 3 WIRE CONTROL) OR TO THE CONTACTOR COIL N° A1 (FOR 2 WIRE CONTROL).

Pilot Devices

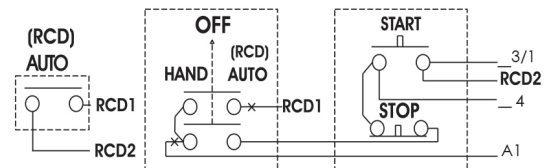
2 Wire Control



3 Wire Control



Hand-Off Auto Wire Control (For ESW Series Only)



DIMENSIONS

Provision for cable gland fitting	Standard			
	Top	Bottom	Side	Back
Box M04	2x (½" or ¾")	2x (½" or ¾")	4x (½" or ¾")	2x (½" or ¾")
	1x (¾" or 1")	1x (¾" or 1")	-	-
Box M06	1x (½" or ¾")	1x (½" or ¾")	3x (½" or ¾")	-
	2x (1" or 1-1/4")	2x (1" or 1-1/4")	4x (1" or 1-1/4")	-
Box M08	1x (1")	1x (1")	1x (1")	1x (1")
	1x (1-1/2")	1x (1-1/2")	4x (¾")	-

Dimensions (approx. inches)

Enclosed Starters	Enclosure Size			
	BOX	H	W	D
ESW(S) 9, 12, 18, 25, 32	M04	9.5	5.5	5.0
ESW(S) 40, 50, 65, 80	M06	13.0	7.5	5.6
ESW 95, 105	M08	17.8	9.5	6.7



VFDs and
Enclosed Motor
Controls

PESW Part Number Breakdown

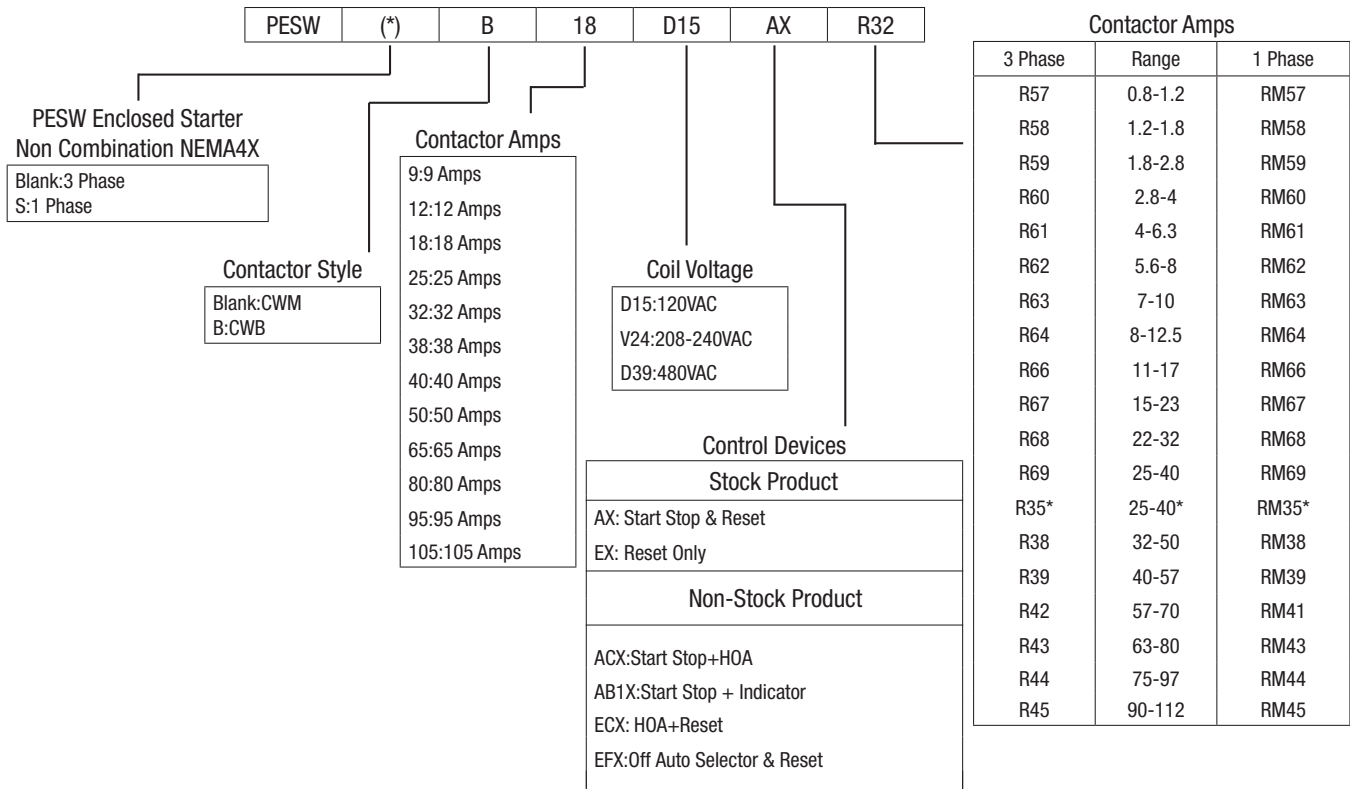


Table Intended for reference and not to create part numbers.

PESW Series - Non-combination Across the line starter Three-Phase Enclosure Type - 4X



Max. UL Horsepower				Box	Setting Range	Coil Voltage	RESET only		START/STOP + RESET		Multiplier
200V	230V	460V	575V				Catalog Number	List Price	Catalog Number	List Price	
-	-	1/2	1/2	05	0.8 - 1.2	120	PESW-B9D15EX-R57	\$157	PESW-B9D15AX-R57	\$210	Z3
						208-240	PESW-B9V24EX-R57		PESW-B9V24AX-R57		
						480	PESW-B9D39EX-R57		PESW-B9D39AX-R57		
-	-	3/4	1	05	1.2 - 1.8	120	PESW-B9D15EX-R58	\$157	PESW-B9D15AX-R58	\$210	
						208-240	PESW-B9V24EX-R58		PESW-B9V24AX-R58		
						480	PESW-B9D39EX-R58		PESW-B9D39AX-R58		
1/2	1/2	1	2	05	1.8 - 2.8	120	PESW-B9D15EX-R59	\$157	PESW-B9D15AX-R59	\$210	
						208-240	PESW-B9V24EX-R59		PESW-B9V24AX-R59		
						480	PESW-B9D39EX-R59		PESW-B9D39AX-R59		
3/4	3/4	2	3	05	2.8 - 4.0	120	PESW-B9D15EX-R60	\$157	PESW-B9D15AX-R60	\$210	
						208-240	PESW-B9V24EX-R60		PESW-B9V24AX-R60		
						480	PESW-B9D39EX-R60		PESW-B9D39AX-R60		
1	1-1/2	3	5	05	4.0 - 6.3	120	PESW-B9D15EX-R61	\$157	PESW-B9D15AX-R61	\$210	
						208-240	PESW-B9V24EX-R61		PESW-B9V24AX-R61		
						480	PESW-B9D39EX-R61		PESW-B9D39AX-R61		
2	2	5	5	05	5.6 - 8.0	120	PESW-B9D15EX-R62	\$157	PESW-B9D15AX-R62	\$210	
						208-240	PESW-B9V24EX-R62		PESW-B9V24AX-R62		
						480	PESW-B9D39EX-R62		PESW-B9D39AX-R62		
2	3	5	7-1/2	05	7.0 - 10	120	PESW-B9D15EX-R63	\$157	PESW-B9D15AX-R63	\$210	
						208-240	PESW-B9V24EX-R63		PESW-B9V24AX-R63		
						480	PESW-B9D39EX-R63		PESW-B9D39AX-R63		
3	3	7-1/2	10	05	8.0 - 12.5	120	PESW-B12D15EX-R64	\$174	PESW-B12D15AX-R64	\$227	
						208-240	PESW-B12V24EX-R64		PESW-B12V24AX-R64		
						480	PESW-B12D39EX-R64		PESW-B12D39AX-R64		
3	5	10	15	05	11 - 17	120	PESW-B18D15EX-R66	\$188	PESW-B18D15AX-R66	\$241	
						208-240	PESW-B18V24EX-R66		PESW-B18V24AX-R66		
						480	PESW-B18D39EX-R66		PESW-B18D39AX-R66		
5	7-1/2	15	15	05	15 - 23	120	PESW-B25D15EX-R67	\$223	PESW-B25D15AX-R67	\$276	
						208-240	PESW-B25V24EX-R67		PESW-B25V24AX-R67		
						480	PESW-B25D39EX-R67		PESW-B25D39AX-R67		
10	10	20	25	06	22 - 32	120	PESW-B32D15EX-R68	\$262	PESW-B32D15AX-R68	\$298	
						208-240	PESW-B32V24EX-R68		PESW-B32V24AX-R68		
						480	PESW-B32D39EX-R68		PESW-B32D39AX-R68		
10	10	25	25	06	25-40	120	PESW-B38D15EX-R69	\$321	PESW-B38D15AX-R69	\$345	
						208-240	PESW-B38V24EX-R69		PESW-B38V24AX-R69		
						480	PESW-B38D39EX-R69		PESW-B38D39AX-R69		

continued on next page

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

PESW

PESW Series - Non-combination Across the line starter - continued

Three-Phase Enclosure Type - 4X

Max. UL Horsepower				Box	Setting Range	Coil Voltage	RESET only		START/STOP + RESET		Multiplier
200V	230V	460V	575V				Catalog Number		List Price	Catalog Number	
10	10	25	25	06	25 - 40	120	PESW-40V18EX-R35	\$321	PESW-40V18AX-R35	\$345	Z3
						208-240	PESW-40V24EX-R35		PESW-40V24AX-R35		
						480	PESW-40V47EX-R35		PESW-40V47AX-R35		
15	15	30	40	08	32 - 50	120	PESW-50V18EX-R38	\$564	PESW-50V18AX-R38	\$579	
						208-240	PESW-50V24EX-R38		PESW-50V24AX-R38		
						480	PESW-50V47EX-R38		PESW-50V47AX-R38		
15	20	40	50	08	40 - 57	120	PESW-65V18EX-R39	\$589	PESW-65V18AX-R39	\$604	
						208-240	PESW-65V24EX-R39		PESW-65V24AX-R39		
						480	PESW-65V47EX-R39		PESW-65V47AX-R39		
20	25	50	60	08	57 -70	120	PESW-80V18EX-R41	\$635	PESW-80V18AX-R41	\$650	
						208-240	PESW-80V24EX-R41		PESW-80V24AX-R41		
						480	PESW-80V47EX-R41		PESW-80V47AX-R41		
25	30	60	75	10	63 - 80	120	PESW-95V18EX-R43	\$1,085	PESW-95V18AX-R43	\$1,100	
						208-240	PESW-95V24EX-R43		PESW-95V24AX-R43		
						480	PESW-95V47EX-R43		PESW-95V47AX-R43		
30	30	75	75	10	75 - 97	120	PESW-105V18EX-R44	\$1,184	PESW-105V18AX-R44	\$1,199	
						208-240	PESW-105V24EX-R44		PESW-105V24AX-R44		
						480	PESW-105V47EX-R44		PESW-105V47AX-R44		
30	40	75	-	10	90 -112	120	PESW-105V18EX-R45	\$1,184	PESW-105V18AX-R45	\$1,199	
						208-240	PESW-105V24EX-R45		PESW-105V24AX-R45		
						480	PESW-105V47EX-R45		PESW-105V47AX-R45		

Notes:

1) OLR must be set @115% of FLA

2) 3-phase starters with 120V coil are wired for separate control

3) 3-phase starters can be wired for single-phase applications (see diagram)

PESW Series - Non-combination Across the line starter Single Phase- Enclosure Type-4X



Max. UL Horsepower		Box	Setting Range	Coil Voltage	RESET only		START/STOP + RESET		Multiplier
115V	230V				Catalog Number	List Price	Catalog Number	List Price	
1/8	1/3	05	2.8 - 4.0	120	PESWS-B9D15EX-RM60	\$140	PESWS-B9D15AX-RM60	\$155	Z3
				208-240	PESWS-B9V24EX-RM60		PESWS-B9V24AX-RM60		
1/4	1/2	05	4.0 - 6.3	120	PESWS-B9D15EX-RM61	\$140	PESWS-B9D15AX-RM61	\$155	
				208-240	PESWS-B9V24EX-RM61		PESWS-B9V24AX-RM61		
1/3	1	05	5.6 - 8.0	120	PESWS-B9D15EX-RM62	\$140	PESWS-B9D15AX-RM62	\$155	
				208-240	PESWS-B9V24EX-RM62		PESWS-B9V24AX-RM62		
1/2	1-1/2	05	7.0 - 10	120	PESWS-B9D15EX-RM63	\$140	PESWS-B9D15AX-RM63	\$155	
				208-240	PESWS-B9V24EX-RM63		PESWS-B9V24AX-RM63		
1/2	2	05	8.0 - 12.5	120	PESWS-B12D15EX-RM64	\$140	PESWS-B12D15AX-RM64	\$155	
				208-240	PESWS-B12V24EX-RM64		PESWS-B12V24AX-RM64		
3/4	2	05	10 - 15	120	PESWS-B18D15EX-RM65	\$161	PESWS-B18D15AX-RM65	\$170	
				208-240	PESWS-B18V24EX-RM65		PESWS-B18V24AX-RM65		
1	3	05	11 - 17	120	PESWS-B18D15EX-RM66	\$170	PESWS-B18D15AX-RM66	\$182	
				208-240	PESWS-B18V24EX-RM66		PESWS-B18V24AX-RM66		
1-1/2	3	05	15 - 23	120	PESWS-B25D15EX-RM67	\$180	PESWS-B25D15AX-RM67	\$195	
				208-240	PESWS-B25V24EX-RM67		PESWS-B25V24AX-RM67		
2	5	05	22 - 32	120	PESWS-B32D15EX-RM68	\$180	PESWS-B32D15AX-RM68	\$195	
				208-240	PESWS-B32V24EX-RM68		PESWS-B32V24AX-RM68		
3	7-1/2	05	32-40	120	PESWS-B38D15EX-RM69	\$274	PESWS-B38D15AX-RM69	\$300	
				208-240	PESWS-B38V24EX-RM69		PESWS-B38V24AX-RM69		
3	7-1/2	06	25 - 40	120	PESWS-40V18EX-RM35	\$274	PESWS-40V18AX-RM35	\$300	
				208-240	PESWS-40V24EX-RM35		PESWS-40V24AX-RM35		
3	10	08	32 - 50	120	PESWS-50V18EX-RM38	\$430	PESWS-50V18AX-RM38	\$440	
				208-240	PESWS-50V24EX-RM38		PESWS-50V24AX-RM38		

Note: OLR must be set at 115% of motor FLA

Accessories - Mounting in Control Stations

Contact Block

Replacement Base Mount Contact Blocks for PESWS(B) 9-38

 0.015 kg ³⁾	Description	Contacts	Diagram	Standard packing	Catalog Number	Price	Multiplier
	Single contact blocks to mounting in control stations or DIN rail 35 mm	1NO		1 piece	BC10B-CSW	\$5.00	Z5

Please refer to back cover for description of "NOTES"

For detailed specifications, data sheets, drawings and performance curves visit <http://www.weg.net>

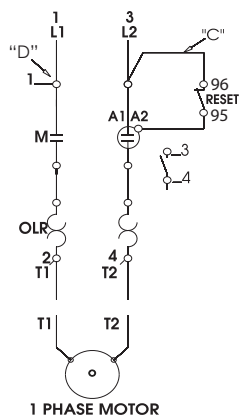
Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

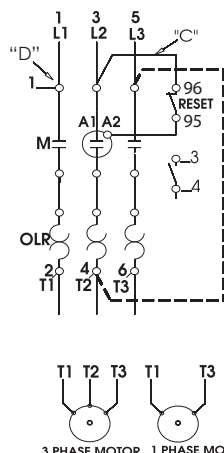
A-379

WIRING DIAGRAM

Single-phase Starter



Three-phase Starter



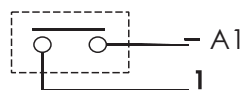
Conversion to single-phase,
add jumper wire from L3
to T2 (follow dotted line
connection above)

Separate Control

FOR SEPARATE CONTROL, REMOVE WIRES "C" AND "D" IF SUPPLIED AND CONNECT SEPARATE CONTROL LINES TO TERMINAL N° 96 ON THE OVERLOAD RELAY AND TO TERMINAL N° _3 ON THE AUX. CONTACT BLOCK (FOR 3 WIRE CONTROL) OR TO THE CONTACTOR COIL N° A1 (FOR 2 WIRE CONTROL).

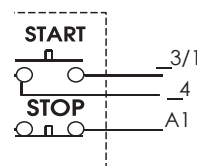
Pilot Devices

2 Wire Control



NOT FOR USE WITH AUTO RESET OL RELAYS.

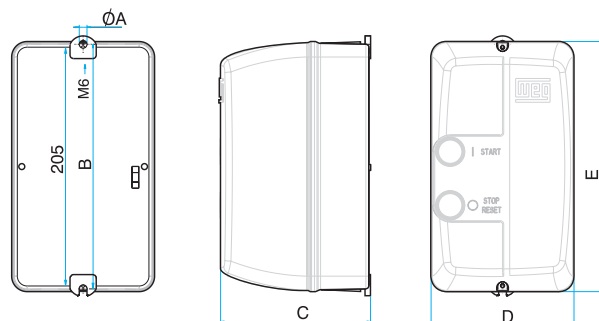
3 Wire Control



DIMENSIONS

SIZE 05 mm(in)	SIZE 06 mm (in)	SIZE 08 mm (in)	SIZE 10 mm (in)
øA = 5.5 (0.2165)	øA = 6.5 (0.3)	øA = 6.0 (0.2)	øA = 7.0 (0.3)
B = 219.0 (8.622)	B = 205 (8.1)	B = 275 (10.8)	B = 355 (14.0)
C = 112 (4.4331)	C = 126 (5.0)	C = 143 (5.6)	C = 167 (6.6)
D = 114.0 (4.4882)	D = 120 (4.7)	D = 180 (7.1)	D = 250 (9.9)
E = 217 (8.544)	E = 210 (8.3)	E = 280 (11.0)	E = 360 (14.2)

Provision for cable gland fitting	Standard		
	Top	Bottom	Back
Size 05	2 x 1/2" - 3/4" PG13.5	2 x 1/2" - 3/4" PG13.5	4 X 1/2" PG13.5
Size 06		2 x 1/2" and 3/4"	ø22mm (0.9in)
Size 08	2 x 3/4" and 1"	2 x 3/4" and 1"	-
Size 10	2 x 3/4" and 1"	2 x 3/4" and 1"	-
	1 x 1" and 1 1/4"	1 x 1" and 1 1/4"	-



For wall mounting on starters size 08 and 10, four screws with the following characteristics should be used:

- Pan, dome or rounded shaped head;
- Starter size 08:
 - Screws size 1/4 (or M6 – ISO Standard);
 - Dimensions: diameter thread shall be maximum 1/4 in and diameter head shall be maximum 15/64 in.
- Starter size 10:
 - Screws size 1/2 (or M5 – ISO Standard);
 - Dimensions: diameter thread shall be maximum 0.236 in and diameter head shall be maximum 0.394 in.

Please refer to back cover for description of "NOTES"

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Data subject to change without notice.

ESWC Series Combination Starters Type C with CPT

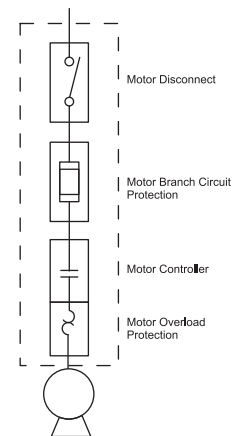
High performance and optimized solutions for motor starting and control. WEG offers full voltage non-reversing combination starters, ESWC series, up to 250 HP at 460VAC (300A) with control power transformers for three-phase applications.



Standard Features

- Multi-Rated Enclosure Type: 1/3R/4/12
- Multi-Voltage Transformer: primary 208V/230V/460V – secondary 120V
- Branch Disconnect: rotary through-the-door handle
- Short-Circuit Protection: molded case circuit breaker
- Motor Control: magnetic IEC contactor
- Overload Protection: solid-state overload relay
 - *Selectable trip class 10, 20, 30
 - *(5:1) ratio adjustable current setting
- Standard Control Devices: START, STOP and RESET pushbuttons
- Custom control options available upon request

UL Combination Starter Type	Device Used for Component Function			
	Motor Disconnect	Motor Branch Circuit Protection	Motor Controller	Motor OL Relay
C	UL489 Inverse Time Circuit Breaker		IEC Contactor	Solid-State Overload Relay



Types A through D combination starters

ESWC

ESWC Series - Combination Type-C Across The Line Starter

THREE-PHASE with Control Power Transformer

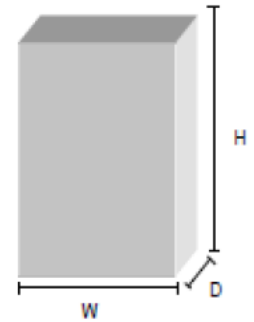
- Branch Disconnect: Rotary through-the-door Handle
- Short-Circuit Protection: Molded Case Circuit Breaker
- Motor Control: Magnetic Contactor
- Overload Protection: Solid State Overload Relay
- Control Devices: Start-Stop and Reset pushbutton
- Other enclosure options available on request

ESWC Series - Combination Type-C Across The Line Starter with CPT						
Motor HP Range (HP)	Overload Range (A)	FEEDER VOLTAGE	Metallic Enclosure Type 1/3R/4/12			Multiplier
			Catalog Number	List Price	Box Size	
0.5 - 1.5	1.6-8.0	208VAC	ESWC-9TM1A9-RE2	\$2,020	B-1	Z3
0.5 - 2		240VAC				
0.75 - 5		480VAC				
1 - 5		600VAC	ESWC-9T5A9-RE2			
1.5 - 3	5.0-25.0	208VAC	ESWC-12TM1A9-RE3	\$2,020	B-1	
1.5 - 3		240VAC				
5 - 7.5		480VAC				
5 - 10		600VAC	ESWC-12T5A9-RE3			
3 - 5	5.0-25.0	208VAC	ESWC-18TM1A9-RE3	\$2,070	B-1	
3 - 5		240VAC				
7.5 - 10		480VAC				
10 - 15		600VAC	ESWC-18T5A9-RE3			
5 - 7.5	8.0-40.0	208VAC	ESWC-25TM1A9-RE4	\$2,070	B-1	
5 - 7.5		240VAC				
7.5 - 15		480VAC				
15 - 20		600VAC	ESWC-25T5A9-RE4			
7.5 - 10	8.0-40.0	208VAC	ESWC-38TM1A9-RE4	\$2,255	B-1	
7.5 - 10		240VAC				
15 - 25		480VAC				
20 - 30		600VAC	ESWC-38T5A9-RE4			
10 - 20	28-112	208VAC	ESWC-65TM1A9-RE6	\$2,552	B-1	
10 - 20		240VAC				
25 - 40		480VAC				
30 - 60		600VAC	ESWC-65T5A9-RE6			
20 - 30	28-112	208VAC	ESWC105TM1A9-RE6	\$3,355	B-2	
20 - 30		240VAC				
40 - 75		480VAC				
50 - 100		600VAC	ESWC-105T5A9-RE6			
30 - 50	50-250	208VAC	ESWC-150TM1A9-RE7	\$5,400	B-3	
30 - 50		240VAC				
75 - 125		480VAC				
75 - 150		600VAC	ESWC-150T5A9-RE7			
50 - 60	50-250	208VAC	ESWC-180TM1A9-RE7	\$6,440	B-3	
50 - 60		240VAC				
100 - 150		480VAC				
125 - 175		600VAC	ESWC-180T5A9-RE7			
60 - 100	85-420	208VAC	ESWC-300TM1A9-RE8	\$7,500	B-3	
60 - 125		240VAC				
150 - 250		480VAC				
175 - 300		600VAC	ESWC-150T5A9-RE8			

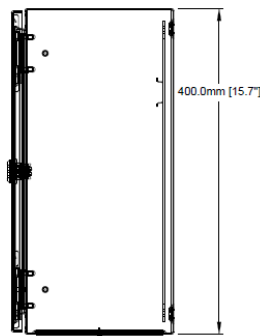
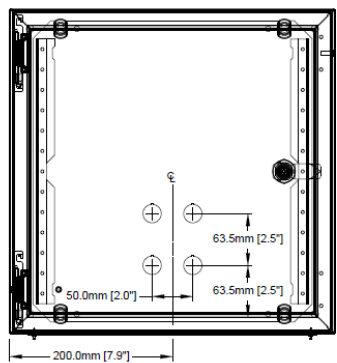
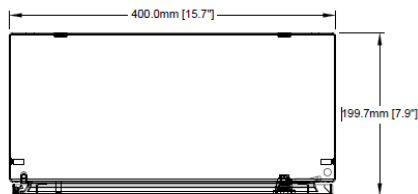
VFDs and Enclosed Motor Controls

Dimensions (in) - ESWC Series

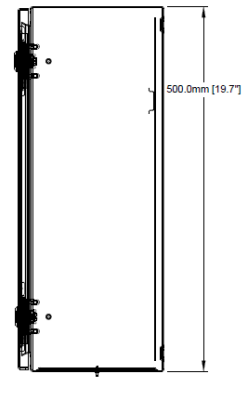
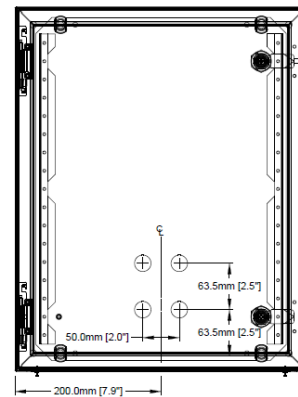
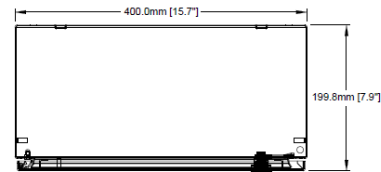
Enclosure Size	Dimensions (in/mm)		
	H	W	D
B1	15.75"/400mm	15.75"/400mm	7.87"/200mm
B2	19.69"/500mm	15.75"/400mm	7.87"/200mm
B3	31.5"/800mm	23.6"/600mm	11.8"/300mm



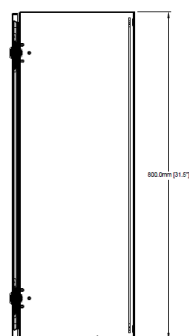
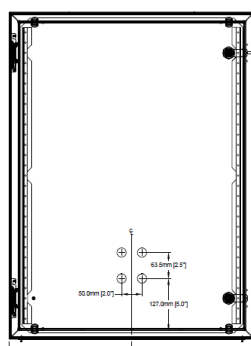
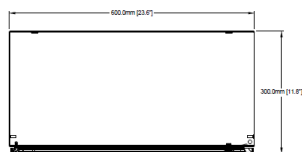
B1 Enclosure



B2 Enclosure



B3 Enclosure



ESWE

ESWE Series Combination Starters Type E with/without CPT

High performance and optimized solutions for motor starting and control. WEG offers full voltage non-reversing combination starters, ESWE series, up to 20 HP at 460VAC (40A) with or without control power transformers for three-phase applications.

Standard Features

- Standard Enclosure Type: non-metallic 4X
- Control Power Transformer: with or without
 - *CPT primary 575V – secondary 120V
 - *CPT primary 480V/240V – secondary 120V
- Branch Disconnect: rotary through-the-door handle
- Short-Circuit Protection: manual motor protection
- Motor Control: magnetic IEC contactor
- Overload Protection: manual motor protection
- Standard Control Devices: HAND-OFF-AUTO switch, START and STOP pushbuttons, pilot lights
- Custom enclosure and control options available upon request



UL Combination Starter Type	Device Used for Component Function			
	Motor Disconnect	Motor Branch Circuit Protection	Motor Controller	Motor OL Relay
E	UL508 Manual Self-Protected Combination Controller		IEC Contactor	UL508 Manual Self-Protected Combination Controller

VFDs and Enclosed Motor Controls

Combination Type-E Across The Line Starter

- Branch Disconnect: Rotary through-the-door Handle
- Short-Circuit Protection: Manual Motor Protection
- Motor Control: Magnetic Contactor
- Overload Protection: Manual Motor Protection
- Control Devices: Hand-Off-Auto switch, Start-Stop pushbutton, pilot lights
- Other enclosure options available upon request

Three-Phase without CPT - Enclosure Type-4X

Combination Type-E Across The Line Starter

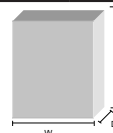
Max. 3-ph Hp Motors				Overload Setting Range (A)	Control Voltage (1) (Vac)	Non-Metallic Enclosure Type 4X			Multiplier
200V	230V	460V	575V			Catalog Number	List Price	Box Size	
-	-	1/2	1/2	0.63 - 1.0	120	ESWE-9V18KX-D05	\$855	E-1	Z3
					480	ESWE-9V47KX-D05			
1/4	1/3	3/4	1	1.0 - 1.6	120	ESWE-9V18KX-D06	\$855	E-1	
					208-240	ESWE-9V24KX-D06			
					480	ESWE-9V47KX-D06	\$855	E-1	
1/2	1/2	1-1/2	1-1/2	1.6 - 2.5	120	ESWE-9V18KX-D07			
					208-240	ESWE-9V24KX-D07	\$855	E-1	
					480	ESWE-9V47KX-D07			
3/4	1	2	3	2.5 - 4.0	120	ESWE-9V18KX-D08	\$855	E-1	
					208-240	ESWE-9V24KX-D08			
					480	ESWE-9V47KX-D08	\$855	E-1	
1-1/2	1-1/2	3	5	4.0 - 6.3	120	ESWE-9V18KX-D09			
					208-240	ESWE-9V24KX-D09	\$855	E-1	
					480	ESWE-9V47KX-D09			
3	3	5	7-1/2	6.3 - 10	120	ESWE-9V18KX-D10	\$865	E-1	
					208-240	ESWE-9V24KX-D10			
					480	ESWE-9V47KX-D10	\$875	E-1	
5	5	10	15	10 - 16	120	ESWE-18V18KX-D11			
					208-240	ESWE-18V24KX-D11	\$875	E-1	
					480	ESWE-18V47KX-D11			
7-1/2	7-1/2	15	15	16 - 20	120	ESWE-25V18KX-D12	\$900	E-1	
					208-240	ESWE-25V24KX-D12			
					480	ESWE-25V47KX-D12	\$990	E-1	
10	10	20	25	25 - 32	120	ESWE-40V18KX-D14			
					208-240	ESWE-40V24KX-D14	\$990	E-1	
					480	ESWE-40V47KX-D14			

Three-Phase with CPT - Enclosure Type-4X

Max. 3-ph Hp Motors				Overload Setting Range (A)	Control Voltage (prim. / sec.) (Vac)	Non-Metallic Enclosure Type 4X			Multiplier
200V	230V	460V	575V			Catalog Number	List Price	Box Size	
-	-	1/2	1/2	0.63 - 1.0	480 / 120	ESWE-9T04KX-D05	\$1,140	E-1	Z3
					575 / 120	ESWE-9T05KX-D05			
					240 / 120	ESWE-9T02KX-D06			
1/4	1/3	3/4	1	1.0 - 1.6	480 / 120	ESWE-9T04KX-D06	\$1,140	E-1	
					575 / 120	ESWE-9T05KX-D06			
					240 / 120	ESWE-9T02KX-D07			
1/2	1/2	1-1/2	1-1/2	1.6 - 2.5	480 / 120	ESWE-9T04KX-D07	\$1,140	E-1	
					575 / 120	ESWE-9T05KX-D07			
					240 / 120	ESWE-9T02KX-D08			
3/4	1	2	3	2.5 - 4.0	480 / 120	ESWE-9T04KX-D08	\$1,140	E-1	
					575 / 120	ESWE-9T05KX-D08			
					240 / 120	ESWE-9T02KX-D09			
1-1/2	1-1/2	3	5	4.0 - 6.3	480 / 120	ESWE-9T04KX-D09	\$1,140	E-1	
					575 / 120	ESWE-9T05KX-D09			
					240 / 120	ESWE-9T02KX-D10			
3	3	5	7-1/2	6.3 - 10	480 / 120	ESWE-9T04KX-D10	\$1,140	E-1	
					575 / 120	ESWE-9T05KX-D10			
					240 / 120	ESWE-18T02KX-D11			
5	5	10	15	10 - 16	480 / 120	ESWE-18T04KX-D11	\$1,155	E-1	
					575 / 120	ESWE-18T05KX-D11			
					240 / 120	ESWE-25T02KX-D12			
7-1/2	7-1/2	15	15	16 - 20	480 / 120	ESWE-25T04KX-D12	\$1,175	E-1	
					575 / 120	ESWE-25T05KX-D12			
					240 / 120	ESWE-40T02KX-D14			
10	10	20	25	25 - 32	480 / 120	ESWE-40T04KX-D14	\$1,260	E-1	
					575 / 120	ESWE-40T05KX-D14			

Notes:

- (1) Please contact your local WEG representative for starters with 575V control voltage.
- (2) 3-phase starters with 120V coil are pre-wired for separate control
- (3) 3-phase starters can be wired for single-phase applications

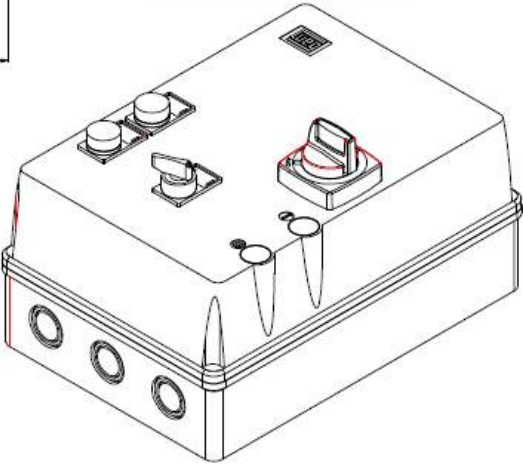
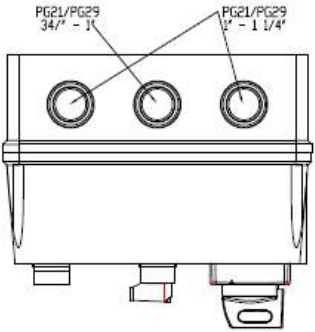
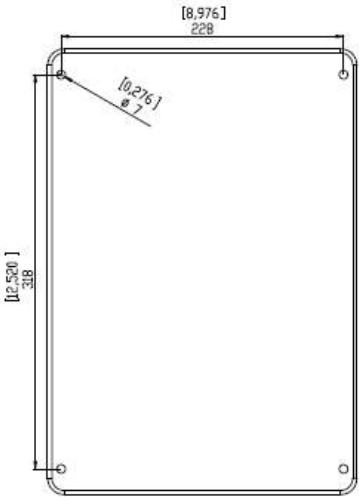
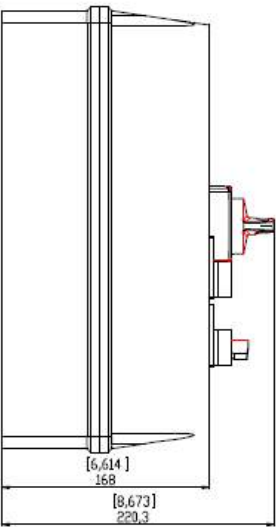
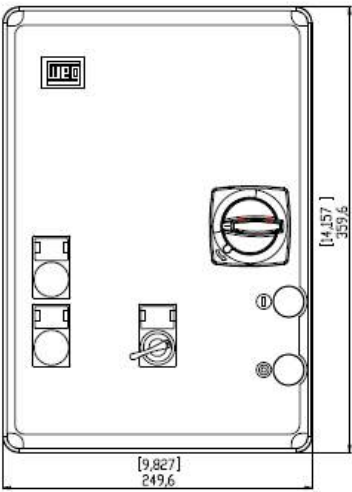


Dimensions (inches)			
Box Size	Enclosure Size		
	H	W	D
E-1	14.2	9.9	6.6

ESWE

Dimensions (in) - ESWE Series

Enclosure Size	Dimensions (in/mm)		
	H	W	D
E-1	14.2	9.9	6.6



VFD's and
Enclosed Motor
Controls

ESWF Series Combination Starters Type E with/without CPT

High performance and optimized solutions for motor starting and control. WEG offers full voltage non-reversing combination starters, ESWF series, up to 75 HP at 460VAC (105A) with or without control power transformers for three-phase applications.

Standard Features

- Standard Enclosure Type: metallic type 4/12
- Control Power Transformer: with or without
 - *CPT primary 575V – secondary 120V
 - *CPT primary 480V/240V – secondary 120V
- Branch Disconnect: rotary through-the-door handle
- Short-Circuit Protection: manual motor protection
- Motor Control: magnetic IEC contactor
- Overload Protection: manual motor protection
- Standard Control Devices: HAND-OFF-AUTO switch, START and STOP pushbuttons
- Custom enclosure and control options available upon request



UL Combination Starter Type	Device Used for Component Function			
	Motor Disconnect	Motor Branch Circuit Protection	Motor Controller	Motor OL Relay
F	UL508 Manual Self-Protected Combination Controller		IEC Contattor	UL508 Manual Self-Protected Combination Controller

ESWF

Combination Type-F Across The Line Starter

THREE-PHASE without Control Power Transformer

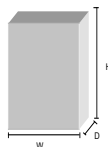
- Branch Disconnect: Rotary through-the-door Handle
- Short-Circuit Protection: Manual Motor Protection
- Motor Control: Magnetic Contactor
- Overload Protection: Manual Motor Protection
- Control Devices: Hand-Off-Auto switch, Start-Stop pushbutton
- Other enclosure options available upon request

Combination Type-F Across The Line Starter with no CPT

Max. 3-ph Hp Motors				Overload Setting Range (A)	Control Voltage (1) (Vac)	Metallic Enclosure Type 4/12			Multiplier
200V	230V	460V	575V			Catalog Number	List Price	Box Size	
-	-	1/2	1/2	0.63 - 1.0	120	ESWF-9V18N4-D05	\$1,225	F-1	Z3
					480	ESWF-9V47N4-D05			
1/4	1/3	3/4	1	1.0 - 1.6	120	ESWF-9V18N4-D06	\$1,225	F-1	
					208-240	ESWF-9V24N4-D06			
					480	ESWF-9V47N4-D06	\$1,225	F-1	
1/2	1/2	1-1/2	1-1/2	1.6 - 2.5	120	ESWF-9V18N4-D07			
					208-240	ESWF-9V24N4-D07			
					480	ESWF-9V47N4-D07	\$1,225	F-1	
3/4	1	2	3	2.5 - 4.0	120	ESWF-9V18N4-D08			
					208-240	ESWF-9V24N4-D08			
					480	ESWF-9V47N4-D08	\$1,225	F-1	
1-1/2	1-1/2	3	5	4.0 - 6.3	120	ESWF-9V18N4-D09			
					208-240	ESWF-9V24N4-D09			
					480	ESWF-9V47N4-D09	\$1,225	F-1	
3	3	5	7 1/2	6.3 - 10	120	ESWF-9V18N4-D10			
					208-240	ESWF-9V24N4-D10			
					480	ESWF-9V47N4-D10	\$1,300	F-1	
5	5	10	15	10 - 16	120	ESWF-18V18N4-D11			
					208-240	ESWF-18V24N4-D11			
					480	ESWF-18V47N4-D11	\$1,390	F-1	
7-1/2	7-1/2	15	15	16 - 20	120	ESWF-25V18N4-D12			
					208-240	ESWF-25V24N4-D12			
					480	ESWF-25V47N4-D12	\$1,470	F-2	
10	10	20	25	25 - 32	120	ESWF-40V18N4-D14			
					208-240	ESWF-40V24N4-D14			
					480	ESWF-40V47N4-D14	\$1,840	F-3	
-	15	25	30	32 - 40	120	ESWF-50V18N4-D19			
					208-240	ESWF-50V24N4-D19			
					480	ESWF-50V47N4-D19	\$1,920	F-3	
15	15	30	40	40 - 50	120	ESWF-65V18N4-D20			
					208-240	ESWF-65V24N4-D20			
					480	ESWF-65V47N4-D20	\$2,010	F-3	
20	20	40	60	50 - 65	120	ESWF-80V18N4-D21			
					208-240	ESWF-80V24N4-D21			
					480	ESWF-80V47N4-D21	\$2,150	F-3	
20	25	50	60	55 - 75	120	ESWF-95V18N4-D22			
					208-240	ESWF-95V24N4-D22			
					480	ESWF-95V47N4-D22	\$2,265	F-3	
25	30	60	75	70 - 90	120	ESWF-95V18N4-D23			
					208-240	ESWF-95V24N4-D23			
					480	ESWF-95V47N4-D23	\$2,435	F-3	
30	30	75	100	80 - 100	120	ESWF-105V18N4-D24			
					208-240	ESWF-105V24N4-D24			
					480	ESWF-105V47N4-D24			

Notes:

- (1) Please contact your local WEG representative for starters with 575V control voltage.
- (2) 3-phase starters with 120V coil are pre-wired for separate control
- (3) 3-phase starters can be wired for single-phase applications



Dimensions (inches)			
Box Size	Enclosure Size		
	H	W	D
F-1	12	12	8
F-2	16	16	8
F-3	20	20	12

Combination Type-F Across The Line Starter

THREE-PHASE with Control Power Transformer

- Branch Disconnect: Rotary through-the-door Handle
- Short-Circuit Protection: Manual Motor Protection
- Motor Control: Magnetic Contactor
- Overload Protection: Manual Motor Protection
- Control Devices: Hand-Off-Auto switch, Start-Stop pushbutton, control transformer
- Other enclosure options available upon request

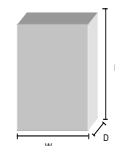
ESWF Series - Combination Type-F Across The Line Starter with CPT

Max. 3-ph Hp Motors				Overload Setting Range (A)	Control Voltage (Vac)	Metallic Enclosure Type 4/12			Multiplier
200V	230V	460V	575V			Catalog Number	List Price	Box Size	
-	-	1/2	1/2	0.63 - 1.0	480 / 120	ESWF-9T04N4-D05	\$1,325	F-1	Z3
					575 / 120	ESWF-9T05N4-D05			
1/4	1/3	3/4	1	1.0 - 1.6	240 / 120	ESWF-9T02N4-D06	\$1,325	F-1	
					480 / 120	ESWF-9T04N4-D06			
					575 / 120	ESWF-9T05N4-D06			
1/2	1/2	1-1/2	1-1/2	1.6 - 2.5	240 / 120	ESWF-9T02N4-D07	\$1,325	F-1	
					480 / 120	ESWF-9T04N4-D07			
					575 / 120	ESWF-9T05N4-D07			
3/4	1	2	3	2.5 - 4.0	240 / 120	ESWF-9T02N4-D08	\$1,325	F-1	
					480 / 120	ESWF-9T04N4-D08			
					575 / 120	ESWF-9T05N4-D08			
1 1/2	1 1/2	3	5	4.0 - 6.3	240 / 120	ESWF-9T02N4-D09	\$1,325	F-1	
					480 / 120	ESWF-9T04N4-D09			
					575 / 120	ESWF-9T05N4-D09			
3	3	5	7 1/2	6.3 - 10	240 / 120	ESWF-9T02N4-D10	\$1,325	F-1	
					480 / 120	ESWF-9T04N4-D10			
					575 / 120	ESWF-9T05N4-D10			
5	5	10	15	10 - 16	240 / 120	ESWF-18T02N4-D11	\$1,400	F-1	
					480 / 120	ESWF-18T04N4-D11			
					575 / 120	ESWF-18T05N4-D11			
7 1/2	7 1/2	15	15	16 - 20	240 / 120	ESWF-25T02N4-D12	\$1,490	F-1	
					480 / 120	ESWF-25T04N4-D12			
					575 / 120	ESWF-25T05N4-D12			
10	10	20	25	25 - 32	240 / 120	ESWF-40T02N4-D14	\$1,620	F-2	
					480 / 120	ESWF-40T04N4-D14			
					575 / 120	ESWF-40T05N4-D14			
-	15	25	30	32 - 40	240 / 120	ESWF-50T02N4-D14	\$1,990	F-3	
					480 / 120	ESWF-50T04N4-D19			
					575 / 120	ESWF-50T05N4-D19			
15	15	30	40	40 - 50	240 / 120	ESWF-65T02N4-D20	\$2,120	F-3	
					480 / 120	ESWF-65T04N4-D20			
					575 / 120	ESWF-65T05N4-D20			
20	20	40	60	50 - 65	240 / 120	ESWF-80T02N4-D21	\$2,210	F-3	
					480 / 120	ESWF-80T04N4-D21			
					575 / 120	ESWF-80T05N4-D21			
20	25	50	60	55 - 75	240 / 120	ESWF-95T02N4-D22	\$2,350	F-3	
					480 / 120	ESWF-95T04N4-D22			
					575 / 120	ESWF-95T05N4-D22			
25	30	60	75	70 - 90	240 / 120	ESWF-95T02N4-D23	\$2,465	F-3	
					480 / 120	ESWF-95T04N4-D23			
					575 / 120	ESWF-95T05N4-D23			
30	30	75	100	80 - 100	240 / 120	ESWF-105T02N4-D24	\$2,635	F-3	
					480 / 120	ESWF-105T04N4-D24			
					575 / 120	ESWF-105T05N4-D24			

Notes:

- (1) Please contact your local WEG representative for starters with other control voltage.
- (2) 3-phase starters can be wired for single-phase applications

Dimensions (inches)			
Box Size	Enclosure Size		
	H	W	D
F-1	12	12	8
F-2	16	16	8
F-3	20	20	12



ESWX

Motor Control for Hazardous Areas: Class I, Groups C & D - Class II, Groups E, F, G

WEG Explosion Proof Motors Starters are the perfect compliment for motor control in Hazardous and Industrial environments. Applications include Oil & Gas, Mining, and Chemical Processing industries.

ESWX-M Series - Enclosed Manual Motor Starters

- High short-circuit interrupting rating – up to 50kA @ 480V
- Thermal overload protection Class 10
- Phase loss sensitivity protection
- Ambient temperature compensation -4°F +140°F (-20°C +60°C)
- Lockable rotary handle mechanism for disconnect
- Snap-in accessories
- Finger safe protected terminals
- Test trip feature
- Manual Motor Starters
- Suitable for motor disconnect applications
- UL Type-E self protected combination starter (available on request)



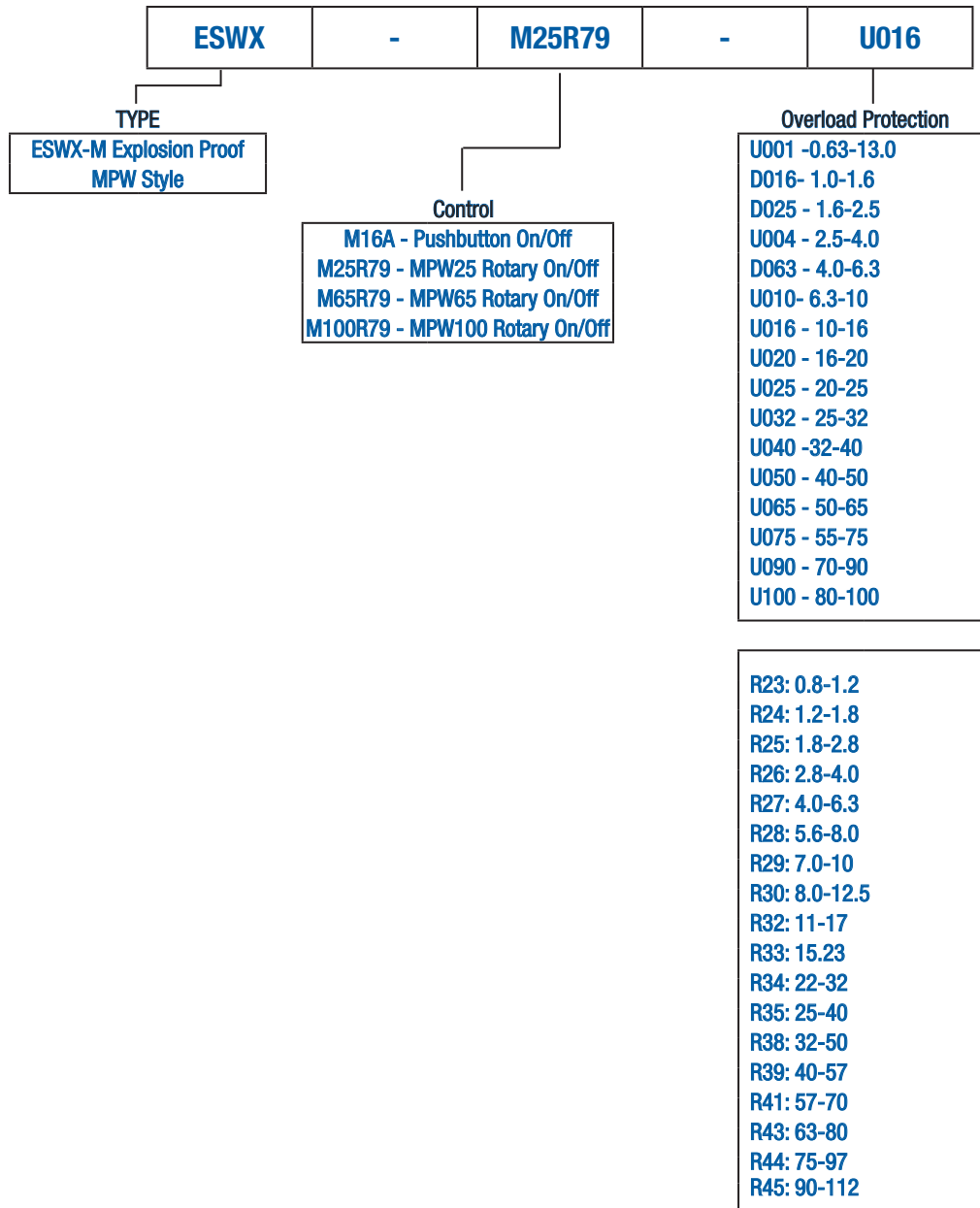
ESWX Series - Enclosed Starters

- Copper free aluminum alloy body
- Bolted flange design
- Durable cast on lugs
- Watertight 'O' Rings for NEMA 4 applications
- Hinged door for easier access
- NEMA 7 / 9 housing
- Class I, Groups C & D - Class II, Groups E, F, G
- Starter includes contactor plus overload relay
- Start Stop Reset buttons (Standard)
- HOA or Pilot Light (optional)
- Available up to 75 hp @ 460 Vac – 100 amps
- NEMA rated starters available from size 00 to size 3 on request



Custom units also available on request.

ESWX PART NUMBER BREAKDOWN



ESWX

Motor Control for Hazardous Areas: Class I, Groups C & D - Class II, Groups E, F, G

WEG Explosion Proof Motors Starters are the perfect compliment for motor control in Hazardous and Industrial environments. Applications include Oil & Gas, Mining, and Chemical Processing industries.

Enclosure Specifications

- Versatile mounting format
- Corrosion resistant, copper free aluminum alloy body
- Bolted flange design
- Durable cast on lugs
- Watertight 'O' Rings for NEMA 4X applications
- Lockout device on cover
- Rotary Handle units include hinged door for easier access
- NEMA 4X / 7 / 9 housing
- ON/OFF - Rotary Handle or Start/Stop - Push buttons
- Rotary Lockable handle
- Available up to 75 hp @ 460 Vac – 100 amps



Explosion Proof Manual Motor Starters ESWX-M16 Series

- Versatile mounting
- NEMA 4X / 7 / 9 housing
- Start & Stop /Reset pushbuttons
- Lockable in OFF position
- Available up to 10 hp @ 460 Vac – 16 amps



ESWX-M16 - PRODUCT SELECTION

Max 3 Phase UL HP			Thermal Setting	Short-Circuit interruption capacity		Catalog Number	List Price	Multiplier
Three Phase								
230V	460V	575V	[A]	480 Vac	600 Vac			
-	1/2	1/2	0.63 - 1.0	50kA	10kA	ESWX-M16A79-U001	\$1,595	Z33
-	3/4	3/4	1.0 - 1.6	50kA	10kA	ESWX-M16A79-D016	\$1,595	
1/2	1	1 1/2	1.6 - 2.5	50kA	10kA	ESWX-M16A79-D025	\$1,595	
3/4	2	3	2.5 - 4.0	50kA	10kA	ESWX-M16A79-U004	\$1,595	
1 1/2	3	5	4.0 - 6.3	50kA	10kA	ESWX-M16A79-D063	\$1,595	
3	5	7 1/2	6.3 - 10	50kA	5kA	ESWX-M16A79-U010	\$1,595	
5	10	10	10 - 16	30kA	5kA	ESWX-M16A79-U016	\$1,595	

M25 Series

- NEMA 4X / 7 / 9 housing
- Hinged Cover for easy access
- ON / OFF – Rotary Handle
- Lockable in OFF position
- Available up to 20 hp @ 460 Vac– 32 amps



ESWX-M25 - PRODUCT SELECTION

Max 3 Phase UL HP			Thermal Setting	Short-Circuit interruption capacity		Catalog Number	List Price	Multiplier
Three Phase								
230V	460V	575V	[A]	480 Vac	600 Vac			
-	1/2	1/2	0.63 - 1.0	50kA	25kA	ESWX-M25R79-U001	\$2,200	Z33
-	3/4	3/4	1.0 - 1.6	50kA	25kA	ESWX-M25R79-D016	\$2,200	
1/2	1	1 1/2	1.6 - 2.5	50kA	25kA	ESWX-M25R79-D025	\$2,200	
3/4	2	3	2.5 - 4.0	50kA	25kA	ESWX-M25R79-U004	\$2,200	
1 1/2	3	5	4.0 - 6.3	50kA	25kA	ESWX-M25R79-D063	\$2,200	
3	5	7 1/2	6.3 - 10	50kA	25kA	ESWX-M25R79-U010	\$2,200	
5	10	15	10 - 16	50kA	25kA	ESWX-M25R79-U016	\$2,200	
7 1/2	15	15	16 - 20	50kA	25kA	ESWX-M25R79-U020	\$2,200	
7 1/2	15	20	20 - 25	50kA	25kA	ESWX-M25R79-U025	\$2,200	
10	20	25	25 - 32	42kA	25kA	ESWX-M25R79-U032	\$2,200	

ESWX-M65 Series

- NEMA 4X / 7 / 9 housing
- Hinged Cover for easy access
- ON / OFF – Rotary Handle
- Lockable in OFF position
- Available up to 50 hp @ 460 Vac – 65 amps

ESWX-M65 - PRODUCT SELECTION

Max 3 Phase UL HP			Thermal Setting	Short-Circuit interruption capacity		Catalog Number	List Price	Multiplier
Three Phase								
230V	460V	575V	[A]	480 Vac	600 Vac			
15	25	30	32 - 40	35kA	10kA	ESWX-M65R79-U040	\$2,600	Z33
15	30	40	40 - 50	35kA	10kA	ESWX-M65R79-U050	\$2,600	
20	50	60	50 - 65	35kA	10kA	ESWX-M65R79-U065	\$2,600	

ESWX-M100 Series

- NEMA 4X / 7 / 9 housing
- Hinged Cover for easy access
- ON / OFF – Rotary Handle
- Lockable in OFF position
- Available up to 75 hp @ 460 Vac – 100 amps

ESWX-M100 - PRODUCT SELECTION

Max 3 Phase UL HP			Thermal Setting	Short-Circuit interruption capacity		Catalog Number	List Price	Multiplier
Three Phase								
230V	460V	575V	[A]	480 Vac	600 Vac			
25	50	60	55 - 75	50kA	10kA	ESWX-M100R79-U075	\$3,350	Z33
30	60	75	70 - 90	50kA	10kA	ESWX-M100R79-U090	\$3,350	
30	75	100	80 - 100	50kA	10kA	ESWX-M100R79-U100	\$3,350	

ESWX

ACCESSORIES FOR MPW18 / 40 / 65 - Summary

Description	Catalog Number	List Price	Multiplier
Auxiliary Contact Blocks			
1NO&1NC auxiliary contact block front mounting - 250Vmax.	ACBF-11	\$20	Z4
1NO&1NC auxiliary contact block left side mounting - 600Vmax.	ACBS-11	\$22	
2NO Auxiliary contact block left side mounting - 600Vmax.	ACBS-20	\$22	
2NC Auxiliary contact block left side mounting - 600Vmax.	ACBS-02	\$22	
Under Voltage and Shunt Block Releases			
Shunt release block right side mounting - 20-24V 50/60Hz	SRMP D51	\$56	Z4
Shunt release block right side mounting - 100-127V 50/60Hz	SRMP D59	\$56	
Shunt release block right side mounting - 200-240V 50/60Hz	SRMP D65	\$56	
Under voltage release block right side mounting - 24V 60Hz	URMP D02	\$56	
Under voltage release block right side mounting - 120V 60Hz	URMP V18	\$56	
Under voltage release block right side mounting - 208V 60Hz	URMP V23	\$56	
Under voltage release block right side mounting - 240V 60Hz	URMP V30	\$56	
Under voltage release block right side mounting - 480V 60Hz	URMP V47	\$56	

ACCESSORIES FOR MPW100 - Summary

Description	Catalog Number	List Price	Multiplier
Auxiliary Contact Blocks			
1NO&1NC auxiliary contact block front mounting - 250Vmax.	ACBF-11 MPW100	\$35	Z4
1NO&1NC auxiliary contact block left side mounting - 600Vmax.	ACBS-11 MPW100	\$27	
2NO Auxiliary contact block left side mounting - 600Vmax.	ACBS-20 MPW100	\$27	
2NC Auxiliary contact block left side mounting - 600Vmax.	ACBS-02 MPW100	\$27	
Under Voltage and Shunt Block Releases			
Shunt release block right side mounting - 120V 50/60Hz	ACBF-11 MPW100	\$35	Z4
Shunt release block right side mounting - 240-260V 60Hz	ACBS-11 MPW100	\$27	
Under voltage release block right side mounting - 120V 60Hz	ACBS-20 MPW100	\$27	
Under voltage release block right side mounting - 240V 60Hz	ACBS-02 MPW100	\$27	
Under voltage release block right side mounting - 460V 60Hz	URMP V43 MPW100	\$56	

NEMA 7/9 Enclosure – Three Phase

- Motor Control: Magnetic Contactor
- Overload Protection: Thermal Overload Relay
- Control Devices: START STOP RESET Pushbuttons
 - H.O.A. and Pilot Lights available on request
- Cast Aluminum NEMA 7/9 housing with NEMA 4 gasket
 - Breather & Drain available on request



ESWX Series - Non-combination Across The Line Starter for use in Hazardous Areas
ENCLOSURE TYPE NEMA 7/9

Max. UL 3 Phase Horsepower				Box	Setting Range	Coil Voltage	RESET only		START + STOP + RESET		Multiplier
200V	230V	460V	575V				Catalog Number	List Price	Catalog Number	List Price	
-	1/3	1/2	-	X04	0.8 - 1.2	120	ESWX-25V18E79-R23	\$3,250	ESWX-25V18A79-R23	\$3,850	Z33
						208-240	ESWX-25V24E79-R23		ESWX-25V24A79-R23		
						480	ESWX-25V47E79-R23		ESWX-25V47A79-R23		
-	-	1	1	X04	1.2 - 1.8	120	ESWX-25V18E79-R24	\$3,250	ESWX-25V18A79-R24	\$3,850	
						480	ESWX-25V47E79-R24		ESWX-25V47A79-R24		
						120	ESWX-25V18E79-R25		ESWX-25V18A79-R25		
1/2	3/4	1-1/2	2	X04	1.8 - 2.8	208-240	ESWX-25V24E79-R25	\$3,250	ESWX-25V24A79-R25	\$3,850	
						480	ESWX-25V47E79-R25		ESWX-25V47A79-R25		
						120	ESWX-25V18E79-R26		ESWX-25V18A79-R26		
1	1	2	3	X04	2.8 - 4.0	208-240	ESWX-25V24E79-R26	\$3,250	ESWX-25V24A79-R26	\$3,850	
						480	ESWX-25V47E79-R26		ESWX-25V47A79-R26		
						120	ESWX-25V18E79-R27		ESWX-25V18A79-R27		
1-1/2	1-1/2	3	5	X04	4.0 - 6.3	208-240	ESWX-25V24E79-R27	\$3,250	ESWX-25V24A79-R27	\$3,850	
						480	ESWX-25V47E79-R27		ESWX-25V47A79-R27		
						120	ESWX-25V18E79-R28		ESWX-25V18A79-R28		
2	2	5	-	X04	5.6 - 8.0	208-240	ESWX-25V24E79-R28	\$3,250	ESWX-25V24A79-R28	\$3,850	
						480	ESWX-25V47E79-R28		ESWX-25V47A79-R28		
						120	ESWX-25V18E79-R29		ESWX-25V18A79-R29		
3	3	-	7-1/2	X04	7.0 - 10	208-240	ESWX-25V24E79-R29	\$3,250	ESWX-25V24A79-R29	\$3,850	
						120	ESWX-25V18E79-R30		ESWX-25V18A79-R30		
						480	ESWX-25V47E79-R30		ESWX-25V47A79-R30		
-	-	7-1/2	10	X04	8.0 - 12.5	120	ESWX-25V18E79-R32	\$3,250	ESWX-25V18A79-R32	\$3,850	
						208-240	ESWX-25V24E79-R32		ESWX-25V24A79-R32		
						480	ESWX-25V47E79-R32		ESWX-25V47A79-R32		
5	5	10	15	X04	11 - 17	120	ESWX-25V18E79-R33	\$3,250	ESWX-25V18A79-R33	\$3,850	
						208-240	ESWX-25V24E79-R33		ESWX-25V24A79-R33		
						480	ESWX-25V47E79-R33		ESWX-25V47A79-R33		
7-1/2	7-1/2	15	-	X04	15 - 23	208-240	ESWX-40V18E79-R34	\$3,300	ESWX-40V18A79-R34	\$3,950	
						480	ESWX-40V24E79-R34		ESWX-40V24A79-R34		
						120	ESWX-40V18E79-R35		ESWX-40V18A79-R35		
10	10	20	25	X04	22 - 32	208-240	ESWX-40V24E79-R35	\$3,300	ESWX-40V24A79-R35	\$3,950	
						480	ESWX-40V47E79-R35		ESWX-40V47A79-R35		
						120	ESWX-80V18E79-R38		ESWX-80V18A79-R38		
15	15	30	40	X04	32 - 50	208-240	ESWX-80V24E79-R38	\$3,400	ESWX-80V24A79-R38	\$4,050	
						480	ESWX-80V47E79-R38		ESWX-80V47A79-R38		
						120	ESWX-80V18E79-R39		ESWX-80V18A79-R39		
20	20	40	50	X04	40 - 57	208-240	ESWX-80V24E79-R39	\$3,400	ESWX-80V24A79-R39	\$4,050	
						480	ESWX-80V47E79-R39		ESWX-80V47A79-R39		
						120	ESWX-80V18E79-R41		ESWX-80V18A79-R41		
-	25	50	60	X04	57 - 70	208-240	ESWX-80V24E79-R41	\$3,420	ESWX-80V24A79-R41	\$4,050	
						480	ESWX-80V47E79-R41		ESWX-80V47A79-R41		
						120	ESWX-105V18E79-R43		ESWX-105V18A79-R43		
25	30	60	75	X04	63 - 80	208-240	ESWX-105V24E79-R43	\$3,870	ESWX-105V24A79-R43	\$4,600	
						480	ESWX-105V47E79-R43		ESWX-105V47A79-R43		
						120	ESWX-105V18E79-R44		ESWX-105V18A79-R44		
30	-	75	-	X04	75 - 97	208-240	ESWX-105V47E79-R44	\$3,870	ESWX-105V47A79-R44	\$4,600	
						120	ESWX-105V18E79-R45		ESWX-105V18A79-R45		
						208-240	ESWX-105V24E79-R45		ESWX-105V24A79-R45		
-	40	-	-	X04	90 - 112	120	ESWX-105V18E79-R45	\$3,870	ESWX-105V18A79-R45	\$4,600	
						208-240	ESWX-105V24E79-R45		ESWX-105V24A79-R45		

Notes:

- 1) Overload Relay dial must be set with FLA of the motor
- 2) 3-phase starters with 120V coil are pre-wired for separate control
- 3) 3-phase starters can be wired for single-phase applications

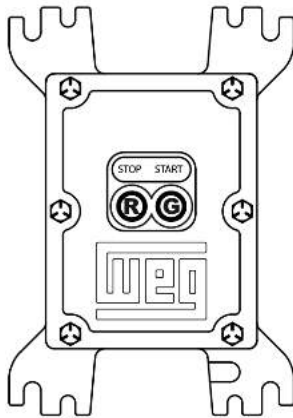
Data subject to change without notice.

Can't find what you are looking for? Call 1-800-ASK-4WEG (275-4934)

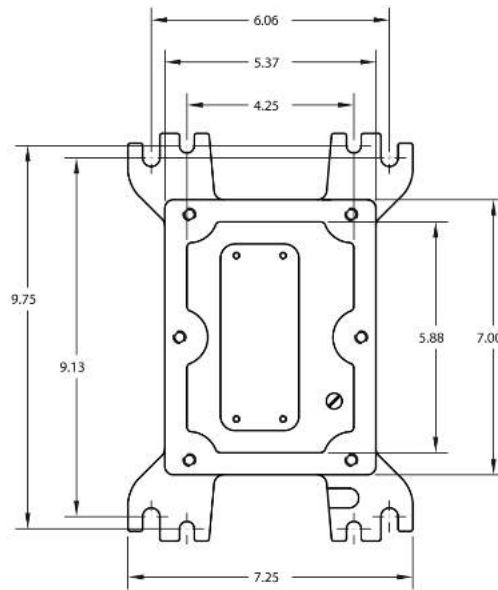
A-395

ESWX

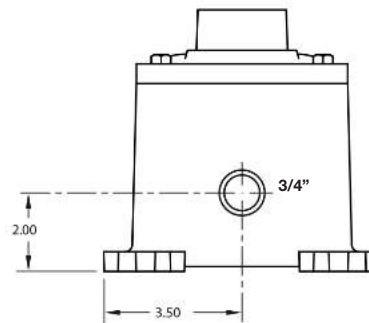
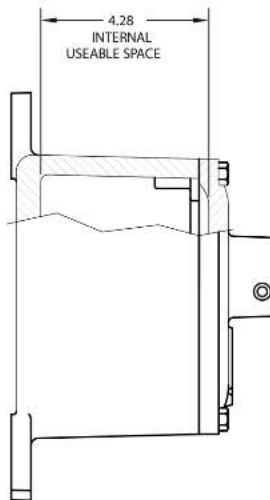
Explosion Proof Manual Starters Dimensions (in) ESWX-M18



FRONT



FRONT
(w/DOOR REMOVED)



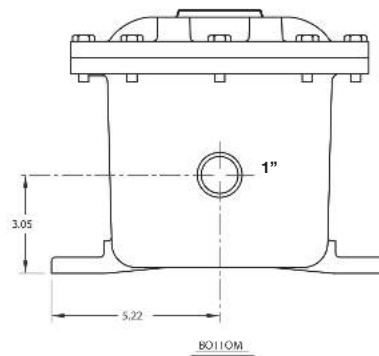
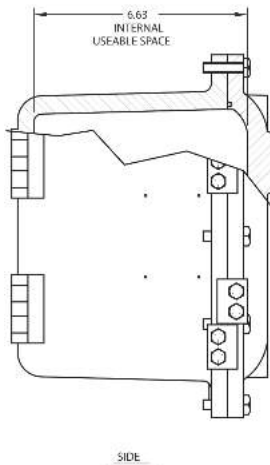
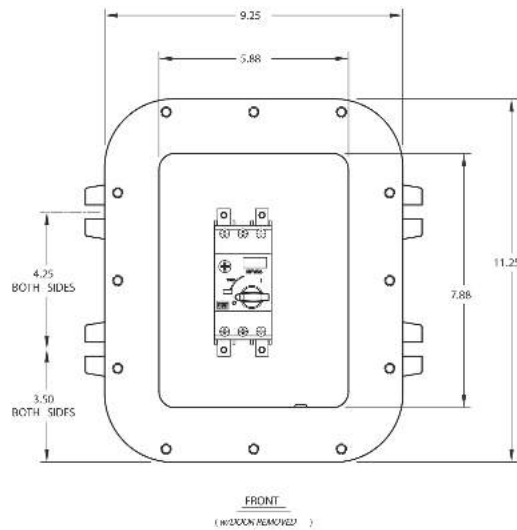
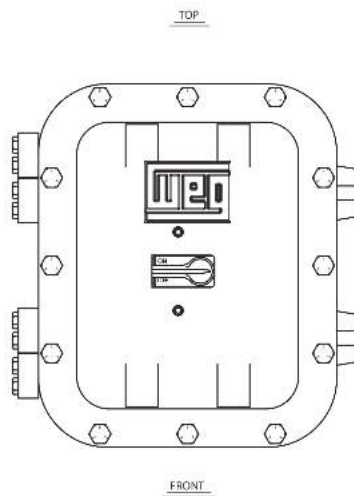
BOTTOM

Certifications

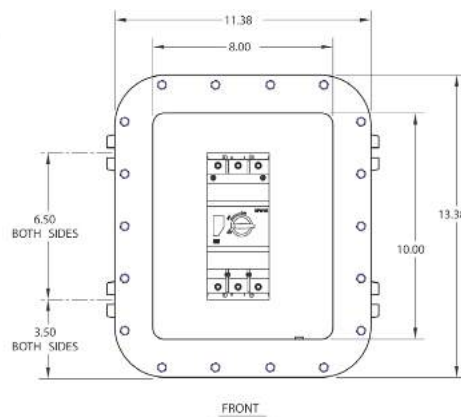
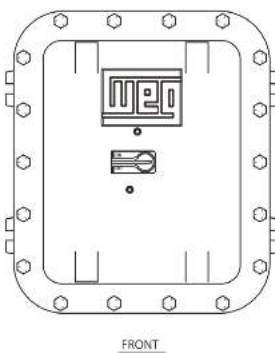
Class I, Groups C & D
Class II, Groups E, F, & aG
UL Standard 1203 (Classified)
NEMA 7 (C&D), 9 (E, F, & G)



Explosion Proof Manual Starters Dimensions (in) ESWX-M40 and ESWX-M65

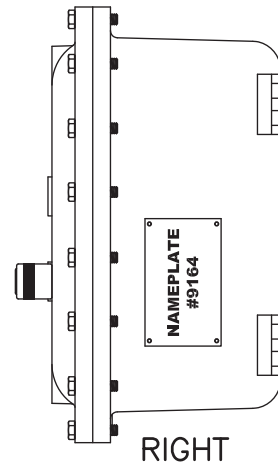


Dimensions (in) ESWX-M100



Certifications
Class I, Groups C & D
Class II, Groups E, F, & aG
UL Standard 1203 (Classified)
NEMA 7 (C&D), 9 (E, F, & G)

Type-NEMA 7/9 - Cast Aluminum Enclosure





CUSTOM CONTROL PANELS

DATA WORKSHEET AND REQUEST FOR QUOTE

REP*		ASE*		NEED QUOTE BY*	
TAM*		TSS*		REQUESTED SHIP DATE*	

1. CUSTOMER INFO:

1.1 COMPANY NAME		1.3 CUSTOMER PHONE		2.1 PRODUCT INFO*	
1.2 CONTACT NAME		1.4 END USER NAME		2.1.A ENTER P/N	

2. SUPPORTING PRODUCT INFO:**3. LOAD DATA:**

3.1 MOTOR HP*		3.2 MOTOR FLA*		3.3 SERVICE FACTOR		4.1 PHASE*		4.2 INCOMING VOLTAGE (V)*	
3.4 OTHER LOAD DATA						4.3 FREQUENCY*		4.4 PORTABLE GENERATOR POWER?*	

4. POWER AND WIRING:**5. APPLICATION & ENVIRONMENT:**

5.1 STARTING METHOD*		5.1.A OTHER STARTING METHOD?*			
5.2 ENCLOSURE TYPE* (METALIC TYPE 1, 12, ETC)		5.3 SPECIFY AMBIENT TEMPERATURE IF UNIT INSTALLED OUTDOORS		5.4 SPECIFY ALTITUDE IF UNIT INSTALLED ABOVE 6,5000 FT	
5.5 REPLACING STANDARD NEMA SIZE?*		5.6 MAXIMUM NUMBER OF STARTS PER HOUR*		5.7 OTHER INFORMATION	

6. CIRCUIT PROTECTION:**7. CONTROL CIRCUIT:**

6.1 PROTECTIVE DEVICE*		7.1 COMMON CONTROL (SAME AS VOLTAGE TO MOTOR?)*		7.2 CPT REQUIRED?*	
6.1.A OTHER PROTECTIVE DEVICE		7.3 TRANSFORMER WITH EXTRA VA CAPACITY?*			

8. COVER MOUNTED 22mm DEVICES: (IF YES, ENTER QUANTITIES)

22MM RESET PBS ARE CONSIDERED BASED ON PANEL CONFIGURATION. IF RESET PBS ARE NOT NEEDED, PLEASE SPECIFY.

8.1 START/STOP PUSH BUTTON		8.2 H-0-A SELECTOR SWITCH		8.3 OFF-ON SELECTOR SWITCH		8.4 RUN LIGHT		8.5 POWER ON LIGHT		8.6 E-STOP PUSH BUTTON	
8.7 OTHER (SPECIFY)											

VFDs and
Enclosed Motor
Controls**9. OTHER SPECIFICATIONS:**

*REQUIRED FIELDS

WHEN COMPLETED, PLEASE CONTACT YOUR REGIONAL WEG SALES SPECIALIST AT 1-900-ASK-4WEG (275-4934) FOR DIRECTIONS ON SUBMITTAL FOR QUOTATION. WEG CAN HELP YOU COMPLETE ANY FURTHER PERTINENT INFORMATION TO QUOTE.

SSW7000

WEG's SSW7000 medium voltage solid-state soft starter is an industrial general-purpose starter package for starting & protecting 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:

- 4160V & 2300V models in stock (NEMA 12 & NEMA 3R) up to 3000HP (higher voltages & powers available)
- Suitable for service entrance
- Motor protections active in both DOL & RUN modes eliminating the need for expensive motor protection relays for backup protection
- Pump control utilizes a specific algorithm for centrifugal pumps designed to minimize water hammer and pressure overshoots
- Soft PLC function with license-free software
- Flexible Torque Control (FTC) allows adjusting starting torque limit curve with 3 points (ideal for quadratic loads)
- Motor thermal protection via PT100 monitoring available (up to 8 channels)

Accessories:

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



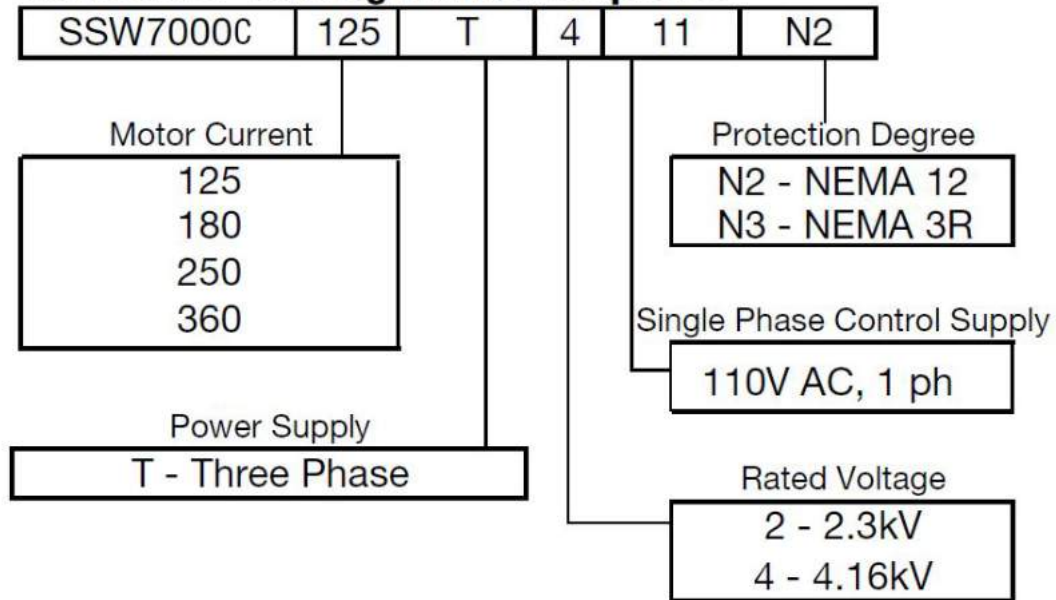
Features that make a difference:

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



Product Code

SSW7000C Catalog Number Sequence



Rating

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

Note: (*) The motor power ratings given above are based on WEG 4-pole motors, 4.16kV, 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, 1Ph control voltage.

MEDIUM VOLTAGE STARTERS

Options

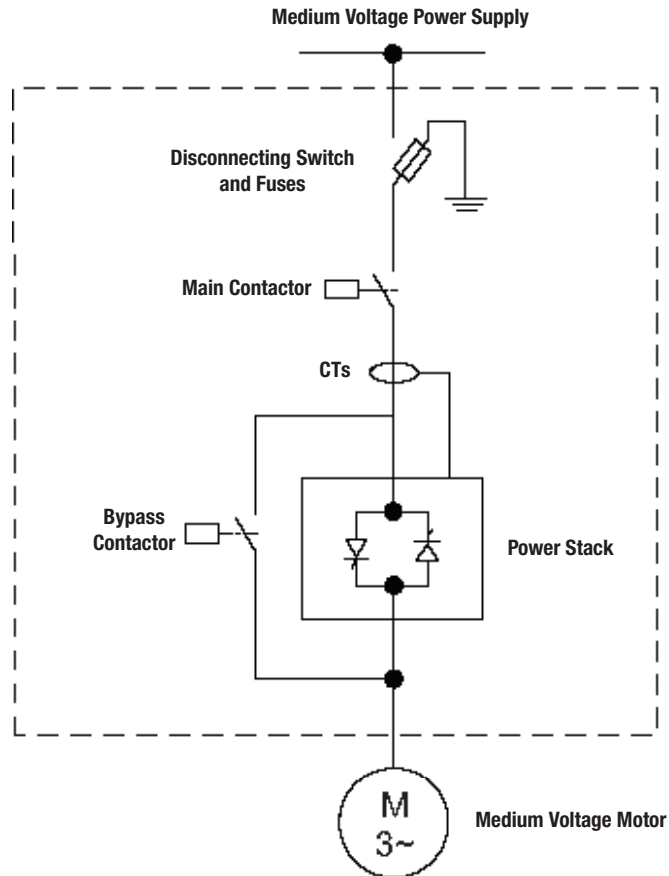
Reference	Description	Slot	List Price	Multiplier
Control accessories to install in Slots 1, 2 and 3				
IOE-04	Module for 8 temperature sensors PT100	1 and 2	\$2795	E3
RS485-01	RS-485 serial communication module (Modbus)	3	\$240	
RS232-01	RS-232C serial communication module (Modbus)		\$180	
RS232-02	RS-232C serial communication module with switch to program the microcontroller FLASH memory		\$180	
Anybus-CA Accessories to install in Slots 4				
PROFDP-05	ProfibusDP interface module	4	\$935	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) ⁽¹⁾	-	\$205	V1
RHMIF-01	Frame kit for MMI (protection rate IP56)		\$69	

Dimensions

same for NEMA 12 & 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 STARTERS SSW7000

Standard Features:

- Motor voltage: 2.3kV, 4.16kV
- Power: up to 3000HP
- Protection Degree : NEMA 12, NEMA 3R
- Operating interface (HMI) with graphic LCD
- Real time clock
- Main and bypass vacuum contactors
- Emergency DOL start capability (ATL bypass)
- Medium voltage fuses
- Power and control insulated by fiber optics
- Soft PLC Function
- License Free programming software SuperDrive and WLP
- Motor thermal protection - PT100 (accessory), 8 Channels
- Ground Fault Protection - standard
- 5 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 s. (2x / hour duty cycle)
- Management of Demand restrictions by the electric company
- Bumpless 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
- Flexible Thermal Class Curve setup & selection that eliminates need for third party expensive protection relays
- Soft PLC function with license-free software
- Nickel plated bus bars 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) & California Building Code 2019 (CBC 2019)



Certifications



Technical specifications

Power Supply	Power Voltage (R/1 L1, S/3L2, T/5L3)	Low voltage test: 500Vac: (-60% to +10%) or (200 to 550Vca) Models: 2300Vac: (-60% to +10%) or (920 to 2530Vca) 4160Vac: (-60% to +10%) or (2760 to 4576Vca)
	Frequency	(50 to 60Hz): ($\pm 10\%$) or (45 to 66Hz)
Capacity	Maximum number of starts	5 starts in 2 hours (One start every 30 minutes)
	Start cycle	AC-53a; 4.5-30:50-2
Thyristors	Medium voltage SCR per power arm	2300Vac: 2 thyristors per per power stack 4160Vac: 2 coupled pairs of thyristors
	Reverse voltage peak on the arm	2300Vac: 6.5kV 4160Vac: 13kV
Protections	Protection by Hardware	dv/dt filter Active overvoltage protection on the thyristors
	Control voltage	As per code of the SSW7000: 110Vac: (-15% to 10%) or (93.5 to 121Vac) 230Vac: (-15% to 10%) or (195.6 to 253Vac)
Control Supply	Frequency	(50 to 60Hz): ($\pm 10\%$) or (45 to 66Hz)
	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 to 10) V, (0 to 20) mA or (4 to 20) mA, Impedance: 400k Ω for (0 to 10V), 500 Ω for (0 to 20mA) or (4 to 20mA), programmable functions
Outputs	Digital	3 NO/NC contact relays, 240 Vac, 1A, programmable functions.
	Analog	2 insulated outputs, (0 to 10V) RL $\pm$ 10k Ω (maximum load), 0 to 20mA or 4 to 20mA RL<500 Ω , 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 programming	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	-10° a 40°C
	Altitude	Up to 1000 m above sea level. For higher altitudes, contact our sales force.
	Humidity	Air relative humidity of 5 % to 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 - section 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

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NEMA FRAME			56/140T/ 180T (Note 7)	210T	250T	280T	320T	360T	400T	440T	L440/500	580T
IEC FRAME			90/ 100L/112 (Note 7)	132S/M	160M/L	180M/L	200M/L	225S/M	250S/M	280S/M	315S/M	355M/L
REPLATE ADD CUSTOMER PART NUMBER AND / OR OTHER CHANGES SUCH AS VOLTAGE, HZ, ETC. (All W50 Mods are \$40 NET)												
MOD. NUMBER		NAMEPLATE										
N-10	Main Nameplate Change - Stainless Steel	NET	30	30	30	30	30	30	30	30	30	30
N-20	Additional Nameplate - Stainless Steel	NET	30	30	30	30	30	30	30	30	30	30
N-25	Additional Rating/Service - Adhesive Mylar only	NET	30	30	30	30	30	30	30	30	30	30

ELECTRICAL ADD-ON'S			INSTALLATION OF SPACE HEATERS, THERMISTORS, THERMOSTATS & EXTENDING MOTOR LEADS									
NEMA FRAME			56/140T/ 180T (Note 7)	210T	250T	280T	320T	360T	400T	440T	L440/500	580T
IEC FRAME			90/ 100L/112 (Note 7)	132S/M	160M/L	180M/L	200M/L	225S/M	250S/M	280S/M	315S/M	355M/L
E-25	120V Space heater - XP motors	LIST	1010.00	1012.00	1103.00	1104.00	1104.00	1107.00	1197.00	1202.00	1202.00	1206.00
E-26	240V Space heater - XP motors	LIST	1010.00	1012.00	1103.00	1104.00	1104.00	1107.00	1197.00	1202.00	1202.00	1206.00
E-30	120V Space Heater	LIST	204.09	206.55	297.34	299.45	299.45	302.26	393.04	398.64	398.64	403.92
E-40	240V Space Heater (Operating on 240V)	LIST	204.09	206.55	297.34	299.45	299.45	302.26	393.04	398.64	398.64	403.92
E-50	240V Space Heater (Operating on 120V)	LIST	217.32	221.23	312.01	315.36	315.36	319.83	410.61	419.55	419.55	427.93
E-55	Bearing RTDS (DE and NDE)	LIST	N/A	N/A	N/A	N/A	1446.01	1446.01	1446.01	1446.01	1446.01	1446.01
E-60	Winding RTD's 100 Ohm Platinum (One Per phase - 3 lead PT100's)	LIST	792.77	792.77	792.77	792.77	792.77	883.55	883.55	883.55	883.55	974.33
E-70	Thermistors (One per phase @155°C)	LIST	301.54	301.54	301.54	301.54	301.54	392.32	392.32	392.32	392.32	483.10
E-80	Thermostats (One per phase @155°C)	LIST	167.25	167.25	287.99	287.99	287.99	378.77	378.77	378.77	378.77	445.04
E-95	Provision for vibration detector (drilled and tapped)	LIST	N/A	N/A	363.13	363.13	363.13	363.13	363.13	363.13	363.13	363.13
E-99	Installation of Stubshaft Only - (Only valid for Super Premium 280T & above) 5/8" stub shaft	LIST	N/A	N/A	N/A	345.00	345.00	345.00	475.00	475.00	475.00	475.00
E-100	Installation of Encoder - (Only valid for Super Premium 280T & above) Dynapar HSD38 1024PPR & 5/8" stub shaft	LIST	N/A	N/A	N/A	1201.12	1201.12	1201.12	1291.90	1291.90	1291.90	1291.90
E-105	Installation of Encoder on VECTOR DUTY MOTORS (FRAMES 140- 250 - Dynapar HSD38 1024PPR with 5/8" bore)	LIST	949.02	949.02	949.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E-110	MODIFY BRAKE RECTIFIER TO ACCEPT 460V	LIST	164.16	164.16	164.16	164.16	N/A	N/A	N/A	N/A	N/A	N/A

C-FLANGE KIT			INSTALLATION OF C-FLANGE KITS									
C-80	Installation of C-FLANGE (IEC)	LIST	343.13	343.13	343.13	558.83	558.83	558.83	1530.39	1530.39	1836.47	1950
C-90	Installation of C-FLANGE (TEFC - GEN PRP)	LIST	302.63	302.63	302.63	558.83	558.83	558.83	1530.39	1836.47	1836.47	1950
C-105	Installation of C-FLANGE (IEEE-841)	LIST	471.20	471.20	471.20	602.01	602.01	602.01	1530.39	1836.47	1836.47	1950
C-110	Installation of C-FLANGE (XP)	LIST	432.42	478.07	542.25	756.28	954.95	1005.92	1042.99	1128.38	N/A	N/A

C-120	Installation of C-FLANGE (ODP)	LIST	388.27	388.27	388.27	642.37	642.37	642.37	1222.32	1222.32	N/A	N/A
NEMA FRAME			56/140T/ 180T (Note 7)	210T	250T	280T	320T	360T	400T	440T	L440/500	580T
IEC FRAME			90/ 100L/112 (Note 7)	132S/M	160M/L	180M/L	200M/L	225S/M	250S/M	280S/M	315S/M	355M/L
D-FLANGE KIT	INSTALLATION OF D-FLANGE KITS											
D-120	Installation of D-FLANGE (IEC)	LIST	410.64	410.64	434.25	737.01	737.01	737.01	1105.00	1105.00	1950	2250
D-130	Installation of D-FLANGE (TEFC - GEN PRP)	LIST	416.79	416.79	416.79	743.52	743.52	743.52	1448.27	1950	1950	2250
D-135	Installation of D-FLANGE (IEEE-841)	LIST	N/A	429.05	429.05	743.52	743.52	743.52	1448.27	1950	1950	2250
D-140	Installation of D-FLANGE (XP)	LIST	484.25	484.25	484.25	905.08	905.08	905.08	1286.01	1286.01	N/A	N/A
D-150	Installation of D-FLANGE (ODP)	LIST	N/A	N/A	444.30	527.96	723.74	815.89	919.75	1160.84	N/A	N/A
DRIP COVERS	INSTALLATION OF DRIP COVER (RAIN CAP)											
DC-160	Drip Cover (TEFC / XP)	LIST	254.58	277.07	320.25	363.44	406.59	484.19	681.01	825.45	1058.13	1290.78
DC-170	Drip Cover (ODP)	LIST	276.50	280.53	305.03	328.70	406.01	479.48	570.26	657.97	N/A	N/A
COOLING	ALUMINUM FAN MATERIAL CHANGE OUT AND INSTALLATION OF BLOWER KIT (FORCED VENTILATION)											
F-180	Fan Material (ALUMINUM) Note #4	LIST	1250.55	1287.15	1287.15	1315.82	1422.28	1627.06	1717.84	1867.77	2147.10	3174.81
F-190	Forced Ventilation: Blower Cooling (w/o Encoder) (Not valid for 48 & 56 frames)	LIST	1258.63	1371.79	1439.89	1485.12	1593.32	1797.63	1797.63	2186.87	2452.77	2478.41
F-195	Forced Ventilation: Blower Cooling (w/ Encoder) (Not valid for 48 & 56 frames)	LIST	4337.60	4624.41	4782.99	4896.15	4950.84	5495.06	5955.95	6552.15	6817.40	7417.96
F-200	Cast Iron Fan Cover	List	159.50	144.80	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard

NEMA FRAME			56/140T/ 180T (Note 7)	210T	250T	280T	320T	360T	400T	440T	L440/500	580T
IEC FRAME			90/ 100L/112 (Note 7)	132S/M	160M/L	180M/L	200M/L	225S/M	250S/M	280S/M	315S/M	355M/L
BEARING CHANGE OUTS & SHAFT GROUNDING MODIFICATION												
BEARINGS												
B-200	Ball to Roller Bearing Conversion Note #3 & #5	LIST	N/A	N/A	527.09	616.23	645.92	1024.27	1337.85	1812.35	1890.17	1890.17
B-210	Roller to Ball conversion Note #3 & #6	LIST	N/A	N/A	N/A	N/A	N/A	N/A	1270.28	1636.34	1636.34	1636.34
B-220	Convert to Insulated Bearing - NDE ONLY	LIST	564.72	568.44	673.10	852.65	852.65	1347.85	1347.85	1721.28	1888.88	1888.88
B-225	Convert to 2RS (sealed bearings)	LIST	210.73	221.40	277.54	312.21	346.87	835.42	1077.96	N/A	N/A	N/A
B-230*	External AEGIS shaft Grounding Ring - DE ONLY	LIST	258.44	258.44	258.44	262.57	262.57	273.74	273.74	402.23	530.73	871.87
B-231*	Internal AEGIS Ring for W22 w/o a Flange	LIST	N/A	N/A	582.00	590.00	610.00	782.00	893.00	1143.00	N/A	N/A
B-232*	Internal AEGIS Ring for W22 with any Flange	LIST	336.00	366.00	582.00	590.00	610.00	782.00	893.00	1143.00	N/A	N/A
B-233*	Internal AEGIS Ring for W22 JP/JM	LIST	N/A	N/A	582.00	590.00	610.00	782.00	893.00	1143.00	N/A	N/A
B-234*	Internal AEGIS Ring for W22-IEEE 841 (All Mtg)	LIST	355.00	366.00	582.00	590.00	610.00	782.00	893.00	1143.00	N/A	N/A
B-235*	Internal AEGIS Ring for ODP w/o Flange	LIST	N/A	N/A	N/A	N/A	N/A	782.00	893.00	1143.00	N/A	N/A
B-236*	Internal AEGIS Ring for ODP with C-Flange	LIST	N/A	N/A	501.00	N/A	N/A	782.00	893.00	1143.00	N/A	N/A
B-237*	Internal AEGIS Ring for ODP JP/JM	LIST	N/A	N/A	501.00	N/A	N/A	782.00	893.00	1143.00	N/A	N/A
B-250*	Installation of Helwig Grounding Brush (Includes Brush and Brush Holder - DE only)	LIST	205.45	205.45	205.45	214.53	214.53	214.53	234.64	321.79	321.79	321.79
B-255	High Frequency Terminal Box Grounding Strap (For use with VFD driven motors)	LIST	N/A	N/A	N/A	N/A	N/A	316.56	316.56	341.12	341.12	341.12
B-260	Insulated ODE End Bell conversion (TEFC 360 frames and above - W22 only, Excludes IEEE841)	LIST	486.00	486.00	486.00	486.00	486.00	486.00	608.00	608.00	608.00	608.00
B-265	Low Temp Bearing Grease change out (Aeroshell 22 Low Temp Grease / -40°C to 50°C) - Requires bearings change out	LIST	N/A	N/A	N/A	N/A	N/A	883.87	1177.85	1474.36	1581.09	1834.53
B-270	Low Temp Bearing Grease change out (Aeroshell 22 Low Temp Grease / -50°C to 50°C) - Requires bearings change out	LIST	N/A	N/A	370.34	474.47	509.78	946.26	1036.82	1777.46	1777.46	1830.08
B-280	High Temp Bearing Grease change out (Dow Corning 44 High Temp Grease / -20°C to 90°C) - Requires Bearing Change out	LIST	N/A	N/A	370.34	474.47	509.78	946.26	1036.82	1777.46	1777.46	1830.08

*DIV2 removed from nameplate

NEMA FRAME			56/140T/ 180T (Note 7)	210T	250T	280T	320T	360T	400T	440T	L440/500	580T
IEC FRAME			90/ 100L/112 (Note 7)	132S/M	160M/L	180M/L	200M/L	225S/M	250S/M	280S/M	315S/M	355M/L
MOUNTING			TERMINAL BOX									
M-280	F1 to F2 Mounting Conversion (Cast Iron 3 phase motors only)	LIST	136.17	136.17	181.56	181.56	181.56	181.56	272.35	272.35	272.35	272.35
M-290	Convert Footed Motor to Round Body (Cast Iron Only)	LIST	544.69	544.69	544.69	544.69	544.69	635.47	635.47	635.47	817.04	817.04
M-300	Auxiliary terminal box (Not valid for 48 & 56 frames)	LIST	188.33	188.33	204.70	204.70	204.70	214.18	214.18	214.18	214.18	214.18
M-310	Dual Auxiliary Terminal Box Configuration (Separating Temp. Sensors and Space heaters if specified)	LIST	N/A	N/A	N/A	N/A	N/A	352.21	352.21	352.21	352.21	352.21
M-320	Install terminal block in terminal box (Cast Iron 3 Phase only - leads not connected)	LIST	244.58	258.29	285.07	285.07	337.67	532.11	532.11	643.62	736.42	736.42

ENVIRONMENTAL			ENVIRONMENTAL CONDITIONS									
EV-300	Stainless Steel Breather Drains	LIST	328.21	328.21	418.99	418.99	418.99	509.78	509.78	509.78	600.56	600.56
EV-310	Stainless Steel Hardware (Only external bolts - End bell , Terminal box cover & Fan cover)	LIST	551.68	551.68	551.68	551.68	621.51	621.51	621.51	621.51	782.12	782.12
EV-320	Grounding Provisions on Frame (TEFC cast iron only)	LIST	251.40	251.40	251.40	251.40	382.68	382.68	382.68	Standard	Standard	Standard
EV-330	Tropicalization/Anti-Fungal Protection	LIST	178.07	223.46	223.46	265.36	356.15	356.15	488.83	488.83	488.83	488.83
EV-335	IP56 Modification (GEN PRP TEFC / IEC)	LIST	1031.01	1031.01	1031.01	1031.01	1031.01	1121.79	1121.79	1121.79	1121.79	1121.79
EV-340	IP56 Modification (IEEE 841)	LIST	81.00	93.00	128.00	186.00	244.00	314.00	372.00	430.00	430.00	430.00
EV-342	IP65 Modification (IEEE 841)	LIST	98.00	112.00	154.00	223.00	293.00	377.00	447.00	517.00	517.00	517.00
EV-345	IP56 Modification (XP)	LIST	98.00	112.00	154.00	223.00	293.00	377.00	447.00	517.00	517.00	517.00
EV-350	Sealant on Joints	LIST	198.32	198.32	198.32	198.32	305.87	305.87	305.87	413.41	413.41	413.41
EV-360	External Epoxy Paint (per below color chart only)	LIST	620.11	620.11	620.11	801.68	801.68	801.68	1240.22	1240.22	1240.22	1240.22
EV-380	Top Coat Paint Color Change (per below color chart only)	LIST	396.65	396.65	396.65	520.95	520.95	520.95	645.25	645.25	645.25	645.25
EV-390	FIN-FAN Modification (IEEE 841 motors only)	LIST	572.00	608.00	723.00	812.00	812.00	1110.00	N/A	N/A	N/A	N/A
EV-400	Addition of Rodent Screens (Cast iron ODP motors only)	LIST	N/A	N/A	740.00	971.00	971.00	971.00	971.00	971.00	971.00	971.00

NOTES:

1. CONSIDER TENV VECTOR DUTY MOTOR (IF RATING IS AVAILABLE) = **%
2. NOT AVAILABLE AS MODIFICATION = N/A
3. CONTACT FOR QUOTE WITH LOAD DATA FOR EVALUATION
4. MACHINING REQUIRED
5. ROLLER BEARINGS SIZES NOT AVAILABLE FOR 210T FRAMES AND SMALLER
6. STOCK PRODUCT NOT AVAILABLE WITH ROLLER BEARINGS BELOW NEMA 400T
7. SOME MODIFICATIONS MAY NOT BE AVAILABLE FOR FRAMES SMALLER THAN 140 NEMA OR 112 IEC, CONTACT WEG FOR QUOTE.
8. PRICING IS SUBJECT TO FUTURE UPDATES THAT MAY ALTER WHAT IS REFLECTED IN PRINTED MATERIALS.

AVAIL TOP COAT COLORS

RAL 5009 - BLUE

MUNSELL N1 - BLACK

RAL 6002 - GREEN

RAL 7022 - DARK GRAY

RAL 9010 - WHITE

RAL 3002 - RED

BEARINGS

NEMA FRAME SERIES	48	56	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	L440/500	580
IEC Frame Series	-	-	63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
Ball to Roller (IV, VI, VIII P) D.E.:	n/a	n/a	n/a	n/a	n/a	566	645	772	863	974	n/a	n/a	n/a	n/a
ZZ Bearings (Double shield-ed): Added when manufacturing	std	std	std	std	std	std	96	321	632	n/a	n/a	n/a	n/a	n/a
2 RS Bearing (D.E. and N.D.E.) Added when manufacturing	38	38	38	38	61	67	207	293	973	1364	n/a	n/a	n/a	n/a
Insulated (Hybrid) NDE Bearing	n/a	n/a	n/a	417	671	700	2163	2318	2755	n/a	n/a	n/a	n/a	n/a
Insulated Bearing Housing NDE Endshield	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1064	1239	1539	1539	2265

COOLING

NEMA FRAME SERIES	48	56	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	L440/500	580
IEC FRAME SERIES			63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
Fan Material : - Aluminum Added when manufacturing	n/a	n/a	n/a	64	110	118	132	151	175	218	255	298	348	n/a
Fan Material : - Cast Iron Added when manufacturing	n/a		n/a	34	50	61	79	107	112	185	185	216	300	527
Fan Material : - Bronze Added when manufacturing	n/a	n/a	n/a	238	532	865	1068	1,493	1,508	2,627	2,627	2,627	2,627	2,971
Forced Ventilation (TEBC) :	n/a	n/a	n/a	1,406	1,513	1,575	1,965	2,286	2,448	2,921	3,139	4,275	5,773	7,383
TEAO Added when manufacturing	54	54	54	54	81	94	97	176	176	370	370	380	439	520
Drip Cover Added when manufacturing	21	21	55	55	58	82	98	141	166	191	191	234	234	330
Textile Fan Cover Added when manufacturing	n/a	n/a	n/a	61	63	90	108	156	183	220	220	n/a	n/a	n/a

DEGREE OF PROTECTION

NEMA FRAME SERIES	48	56	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	L440/500	580
IEC FRAME SERIES	-	-	63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
TEFC IP55 with Lip Seal	33	33	33	33	58	76	95	113	132	151	175	213	249	502
TEFC IP55 with Oil Seal	n/a	n/a	55	55	85	104	112	133	143	171	200	231	268	-
TEFC IP55 with Labyrinth seal or Nilos Ring	n/a	n/a	196	196	220	220	299	315	354	463	511	511	579	1380
TEFC IP56 w/ Oil Seals	n/a	n/a	n/a	75	118	176	267	383	498	441	655	1724	2041	-
TEFC IP56 w/ W3Seals (labyrinth)	n/a	n/a	n/a	230	277	401	501	643	861	825	1023	2143	2674	3815
TEFC IP65 w/ Oil Seals	n/a	n/a	n/a	75	118	176	267	383	498	441	655	1724	2041	-
TEFC IP65 w/ Taconite (labyrinth) Seals	n/a	n/a	n/a	167	205	303	398	528	709	659	857	1954	2394	3366
TEFC IP65 w/ W3seals (labyrinth)	n/a	n/a	n/a	230	277	401	501	643	861	825	1023	2143	2674	3815
TEFC IP66 w/ W3seals (labyrinth)	n/a	n/a	n/a	273	344	496	662	853	1112	1185	1515	3310	4009	5687

ELECTRICAL SPECIAL FEATURES - Added when manufacturing

NEMA FRAME SERIES	48	56	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	L440/500	580
IEC FRAME SERIES	-	-	63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
Thermistors (1/phase) PTC:	n/a	n/a	142	142	142	142	142	142	142	142	142	142	142	142
Thermostats (1/phase) NC:	n/a	n/a	142	142	142	142	142	142	142	142	142	142	142	142
Bearing RTD's PT100 (1/bearing)	n/a	n/a	n/a	n/a	n/a	n/a	1215	1215	1215	1215	1215	1215	1215	1215
Winding RTD's PT100 (1/phase):	n/a	n/a	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052	1052
Space Heater	n/a	n/a	37	37	37	37	54	54	54	109	109	109	109	217
Class of Insulation : -"F"	Add 5% to motor list price								Add 3% to motor list price					
Class of Insulation : -"H"	Add 10% to motor price													
Epoxy varnish impregnation Enclosed motors only	Add 5% to motor price													
Above 600 V (1000 Max.)	Add 10% to motor price													

FLANGES

NEMA FRAME SERIES	48	56	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	L440/500	580
IEC FRAMES SERIES	-	-	63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
FLANGE TYPE	Enclosure	List Price												
"C" Flange	TEFC	28	28	28	28	38	51	68	99	121	442	491	606	1,623
	ODP	28	28	-	34	38	51	68	85	100	394	446	560	-
	Explosion Proof	-	-	61	61	70	76	103	147	182	665	736	1,384	1,384
"D" Flange	TEFC	-	-	50	59	70	79	117	136	192	637	762	915	1,051
	ODP	-	-	-	-	-	-	107	126	170	537	685	855	-
	Explosion Proof	-	-	-	89	89	103	130	189	246	736	1,067	1,311	1,577

PAINTING PLANS Factory Build Adder

NEMA FRAME SERIES	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	L440/500	580
IEC FRAMES SERIES	63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
Painting Plan	List Price											
202	45	58	94	120	196	228	246	308	335	402	447	745
203	58	85	138	188	290	344	384	509	553	696	808	1,269
211	106	114	133	228	467	547	597	775	828	1,003	1,075	1,113
212	122	133	171	277	585	692	779	1,026	1,121	1,410	1,577	1,661
Internal Epoxy Painting	45	58	94	120	196	228	246	308	335	402	447	745

Painting Plan Description

Painting Plan	Recommended Uses	Surface Preparation Grade	PRIMER		INTERMEDIATE		FINISH COAT		ADHERENCE GRADE ASTM
			Paint	Film Thickness (µm)	Paint	Film Thickness (µm)	Paint	Film Thickness (µm)	D-3359
201A	Non aggressive environments; Not recommended for direct exposure to solvents, alkalis and acid vapors	Sa 2 ½	Synthetic alkyd	20 – 55	-	-	Synthetic alkyd enamel	40 – 60	3B to 5B
202E	Aggressive sheltered industrial environments; Chemical, pulps and paper industries, resistant to acid steams, alkalis and solvents vapors	Sa 2 ½	Synthetic alkyd	20 - 55	Epoxy Isocyanate	20 - 30	Epoxy polyamide enamel	100 – 140	3A to 5A
202P	Aggressive sheltered or non-sheltered industrial environments; Chemical, mining, pulp and paper industries, resistant to acid steams, alkalis and solvents vapors; Indicated to food processing motors – USA and Europe	Sa 2 ½	Synthetic alkyd	20 - 55	Epoxy Isocyanate	20 - 30	1 coats Aliphatic polyurethane enamel	60 - 100	3A to 5A
203A	Environments low aggressiveness; Not recommended for direct exposure to solvents, alkalis and acid vapors	Sa 2 ½	Synthetic alkyd	20 – 55	Synthetic powdered alkyd	30 a 45	Synthetic alkyd enamel	30 – 45	3B to 5B
211E	Painting of equipment, structures in general subject to moderate and high aggressive level such as: pulp and paper plants, steel and iron and chemical industries	Sa 2 ½	Polyamide Epoxy	90 - 130	-	-	Polyamide Epoxy	90 - 130	3A to 5A
211P	Painting of equipment, structures in general subject to moderate and high aggressive level such as: pulp and paper plants, steel and iron and chemical industries	Sa 2 ½	Polyamide Epoxy	90 - 130	-	-	Aliphatic polyurethane enamel	65 – 90	3A to 5A
212E	Non sheltered marine environment; Resistant to acid, alkalis and solvent spills	Sa 2 ½	Zinc ethyl silicate	70 - 90	Epoxy polyamide	90 – 130	Polyamide Epoxy	90 – 130	3A to 5A
212P	Non sheltered marine environment; Resistant to acid, alkalis and solvent spills	Sa 2 ½	Zinc ethyl silicate	70 - 90	Epoxy polyamide	90 – 130	Aliphatic polyurethane enamel	65 – 90	3A to 5A

Special Shaft

NEMA FRAME SERIES	48	56	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	500	580
IEC FRAMES SERIES	-	-	63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
Second Shaft End (standard dimension)	n/a	n/a	60	72	87	101	104	189	189	392	396	407	752	879
Threaded center hole in the shaft end	n/a	n/a	33	33	41	51	85	136	155	std	std	std	-	-
420 Stainless steel shaft end	Add 10% to motor list price													
315 Stainless steel shaft end	Add 15% to motor list price													
Special Shaft														
Special Shaft Diameter (Type “A” mod)	n/a	n/a	58	58	87	130	151	189	209	392	396	407	752	879
Special Shaft Length (Type “B” mod)	n/a	n/a	63	63	96	113	120	208	216	446	450	473	821	987
Special Shaft Diameter & Length (Type “C” mod)	n/a	n/a	72	72	125	141	158	249	262	574	579	628	965	1117
Special Shaft Diameter, Length & Tapered (Type “D” mod)	n/a	n/a	79	79	130	156	174	271	288	646	654	716	1023	1254
Balance - Reduced	n/a	n/a	n/a	33	79	91	100	125	134	156	167	188	507	616
Balance - Special	n/a	n/a	n/a	58	87	133	159	180	217	250	283	317	846	1044

Terminal Box*

NEMA FRAME SERIES	48	56	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	L440/500	580
IEC FRAMES SERIES	-	-	63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
Cable Gland - Plastic	n/a	n/a	10	10	14	14	22	22	22	-	-	-	-	-
Cable Gland - Brass	n/a	n/a	33	33	50	50	182	182	182	567	567	567	567	714
Threaded Plug	n/a	n/a	6	6	9	9	18	18	18	22	22	22	22	44
Terminal Block (6 pin):	n/a	n/a	9	9	14	23	23	41	41	197	197	380	380	753
Additional terminal box	n/a	n/a	n/a	30	30	41	41	41	41	59	59	59	70	118
Without Terminal Box	n/a	n/a	18	18	22	22	33	33	33	45	45	47	58	70

* Not valid for Hazardous Location Motors

Testing:

NEMA FRAME SERIES	48	56	-	140T	180T	210T	250T	280T	320T	360T	400T	440T	L440/500	380
IEC FRAMES SERIES	-	-	63 UP 80	90	100/112	132	160	180	200	225	250	280	315	355
Routine Test - Unwitnessed	-	-	381	381	381	513	513	513	513	622	622	718	877	877
Routine Test - Witnessed	-	-	1215	1215	1215	1427	1427	1427	1427	1683	1683	1903	2368	2368
Type Test - Unwitnessed	-	-	586	586	586	769	769	769	769	952	952	1208	1768	1768
Type Test - Witnessed	-	-	1419	1419	1419	1632	1632	1632	1632	1939	1939	2195	2318	2318
Vibration Test	-	-	183	183	183	205	205	205	205	285	285	403	559	559
Noise Level Test	-	-	213	213	213	242	242	242	242	322	322	462	638	638

Test Description:

Routine Test

- Winding resistance check (at cold)
- Locked Rotor test (current and absorbed power)
- No-load test (current and absorbed power)
- Hi-pot
- Insulation resistance
- Accessories check for continuity (if applicable)

Type Test

- Winding resistance check (at cold)
- Locked Rotor test (torque, current and absorbed power)
- Load test, including temperature rise with constant output power at full load)
- Breakdown Torque test
- No-load test (current and absorbed power)
- Vibration test on motors 364/5T and above
- Hi-pot
- Insulation resistance
- Accessories check for continuity (if applicable)

Vibration Test

- Vibration measure on as many as 6 points, depending on the mechanical envelope of the motor allowing access to all the reading points
- Test performed with half key on the shaft
- Performed with motor on an elastic mounting base (rigid base when requested)

Noise Test

- Performed at no load on an acoustic chamber
- Measurements at 1m (~ 3.3ft) distance from the motor
- Readings:
 - Total sound pressure level of the motor at 4 points, in dB(A)
 - Bearings sound pressure level in dB(A)
 - Frequency spectrum of the global noise for the point with the most intense reading, at 50% and 100% of rated voltage
 - Frequency spectrum of the bearings noise for the point with the most intense global reading, at 50% and 100% of rated voltage

C/C-DIN FLANGES FOR TOTALLY ENCLOSED MOTORS

Nema Frames - Cast Iron - TEFC - W22

Frame	Flange Size	Bearing Size	C-Flange Kit	
			Catalog Number	List Price
143/5	FC-149	205	FLC-E140-UBC	\$85
182/4	FC-184	207	FLC-E180-UBC-W22	\$145
213/5	FC-184	308	FLC-E210-UBC	\$150
254/6	FC-184	309	FLC-E250-W22	\$195
284/6	FC-228	311	FLC-E280	\$290
324/5	FC-279	312	FLC-E320	\$440
364/5	FC-279	314	FLC-E360-314-W22	\$575
404/5	FC-279	314	FLC-E400-314	\$620
	FC-279	316	FLC-E400-316	\$620
444/5 445/7 447/9	FC-355	314	FLC-E440-314	\$830
	FC-355	314	FLC-E440-314-VENT *	\$1,660
	FC-355	319	FLC-E440-319	\$830
	FC-355	322	FLC-E440-322	\$830
	FC-355	322	FLC-E440-322-VENT *	\$1,743
L447/9	FC-355	314	FLC-EL440-314-VENT *	\$1,800
	FC-355	322	FLC-EL440-322-VENT *	\$1,861
504/5	FC-368	314	FLC-E500-314-W22	\$1,200
	FC-368	319	FLC-E500-319-W22	\$1,200
	FC-368	322	FLC-E500-322-W22	\$1,200
586/7	FC-368	314	FLC-E580-314	\$1,465
	FC-368	314	FLC-E580-314-VENT *	\$1,905
	FC-368	322	FLC-E580-322	\$1,650
	FC-368	322	FLC-E580-322-VENT *	\$1,980
	FC-368	324	FLC-E580-324	\$1,650

* Ventilated for improved Drive end bearing cooling

NEMA Frames - IEEE 841 - W22

Frame	Flange Size	Bearing Size	C-Flange Kit	
			Catalog Number	List Price
143/5	FC-149	205	FLC-IE140	\$250
182/4	FC-184	207	FLC-IE180-W22	\$285
213/5	FC-184	308	FLC-IE210	\$300
254/6	FC-184	309	FLC-IE250-W22	\$325
284/6	FC-228	311	FLC-IE280	\$365
324/5	FC-279	312	FLC-IE320	\$550
364/5	FC-279	314	FLC-E360-314-W22	\$575
404/5	FC-279	314	FLC-E400-314	\$620
	FC-279	316	FLC-E400-316	\$620
444/5 445/7 447/9	FC-355	314	FLC-E440-314	\$830
	FC-355	314	FLC-E440-314-VENT *	\$1,660
	FC-355	319	FLC-E440-319	\$830
	FC-355	322	FLC-E440-322	\$830
	FC-355	322	FLC-E440-322-VENT *	\$1,743
L447/9	FC-355	314	FLC-EL440-314-VENT *	\$1,800
	FC-355	322	FLC-EL440-322-VENT *	\$1,861
504/5	FC-368	314	FLC-E500-314-W22	\$1,200
	FC-368	319	FLC-E500-319-W22	\$1,200
	FC-368	322	FLC-E500-322-W22	\$1,200
586/7	FC-368	314	FLC-E580-314	\$1,465
	FC-368	314	FLC-E580-314-VENT *	\$1,905
	FC-368	322	FLC-E580-322	\$1,650
	FC-368	322	FLC-E580-322-VENT *	\$1,980
	FC-368	324	FLC-E580-324	\$1,650

* Ventilated for improved Drive end bearing cooling

NEMA Frames - W01 Rolled Steel Motors - TEFC

Frame	Flange Size	Bearing Size	C-Flange Kit	
			Catalog Number	List Price
143/5	FC-149	205	FLC-E140-S	\$85
182/4	FC-184	206	FLC-E180-S	\$145
213/5	FC-184	208	FLC-E210-S	\$150
254/6	FC-184	309	FLC-E250-S	\$195



C/C-DIN FLANGES FOR TOTALLY ENCLOSED MOTORS

NEMA Frames - Explosion Proof Motors - modifications must be performed by a UL Certified Service Center

Frame	Flange Size	Bearing Size	C-Flange Kit	
			Catalog Number	List Price
143/5	FC-149	205	FLC-X140	\$120
182/4	FC-184	307	FLC-X180	\$201
213/5	FC-184	308	FLC-X210	\$214
254/6	FC-184	309	FLC-X250-W2'1X	\$291
284/6	FC-228	311	FLC-X280-W21X	\$517
324/5	FC-279	312	FLC-X320-W21X	\$663
364/5	FC-279	314	FLC-X360-314	\$992
404/5	FC-279	314	FLC-X360-314	\$992
	FC-279	217	FLC-X400-217	\$1,210
444/5	FC-355	314	FLC-X440-314	\$1,508
445/7	FC-355	219	FLC-X440-219	\$1,508
447/9	FC-355	319	FLC-X440-319	\$1,508

Metric (IEC) Frames - General Purpose - TEFC

Frame	Flange Size	Bearing Size	C-DIN Flange Kit	
			Catalog Number	List Price
63	C-90	201	FLC-IM63DIN-AL	\$39
71	C-105	202	FLC-IM71DIN-BC-W22	\$43
80	C-120	204	FLC-IM80DIN-AL-BC	\$45
90	C-140	205	FLC-IM90DIN-AL-UBC	\$85
100	C-160	206	FLC-IM100DIN-AL-UBC	\$128
112	C-160	207	FLC-IM112DIN-UBC-W22	\$145
132	C-200	308	FLC-IM132DIN-AL-UBC	\$150
160	C-250	309	FLC-IM160DIN-W22	\$195

Metric (IEC) Frames - Cast Iron - General Purpose - TEFC

Frame	Flange Size	Bearing Size	NEMA C-Flange Kit	
			Catalog Number	List Price
160	FC-184	309	FLC-IM160-W22	\$195
180	FC-228	311	FLC-IM180	\$290
200	FC-228	312	FLC-IM200	\$440
225	FC-279	314	FLC-E360-314-W22	\$575
250	FC-279	314	FLC-E400-314	\$620
280	FC-355	314	FLC-E440-314	\$830
	FC-355	316	FLC-IM280-316	\$830
315	FC-368	314	FLC-E500-314-W22	\$1,030
	FC-368	319	FLC-E500-319-W22	\$1,030
355	FC-368	316	FLC-E580-316	\$1,650
	FC-368	322	FLC-E580-322	\$1,650

Fractional Motors - W01 Rolled Steel - TEFC

Frame	Flange Size	Bearing Size	C-Flange Kit	
			Catalog Number	List Price
48 W56	FC-149	203	FLC-E48/W56-S	\$80
56 56H	FC-149	203	FLC-E56-203-FC149-S	\$85
	FC-149	204	FLC-E56-204-S	\$85
	FC-149	205	FLC-E140-S	\$85

C FLANGES FOR OPEN MOTORS

NEMA Frames - W01 Rolled Steel - ODP

Frame	Flange Size	Bearing Size	C-Flange Kit	
			Catalog Number	List Price
143/5	FC-149	205	FLC-0140-S	\$85
182/4	FC-184	206	FLC-0180-S	\$145
213/5	FC-184	208	FLC-0210-S	\$150
254/6	FC-184	309	FLC-0250-S	\$195

NEMA Frames - Cast Iron - ODP - W40

Frame	Flange Size	Bearing Size	C-Flange Kit		
			ODP*	W40	List Price
254/6	FC-184	309	FLC-0250 **	FLC-0250-W40 **	\$195
284/6	FC-228	311	FLC-0280	FLC-0280-W40	\$290
324/6	FC-279	312	FLC-0320	FLC-0320-W40	\$440
364/5	FC-279	314	FLC-0360-314	FLC-0360/400-314-W40	\$575
404/5	FC-279	316	FLC-0400-316	FLC-0360/400-316-W40	\$952
444/5	FC-355	314	FLC-0440-314	-	\$830
447/9	FC-355	319	FLC-0440-319	-	\$830
444/5	FC-355	314	-	FLC-0444/5-314-W40	\$830
	FC-355	319	-	FLC-0444/5-319-W40	\$830
447/9	FC-355	314	-	FLC-0447/9-314-W40	\$830
	FC-355	319	-	FLC-0447/9-319-W40	\$830

* Legacy Models

** Does not meet NEMA BA dimension for Flanged motors

Fractional Motors - W01 Rolled Steel - ODP

Frame	Flange Size	Bearing Size	C-Flange Kit	
			Catalog Number	List Price
48 W56	FC-149	203	FLC-048/W56-S	\$67
56 56H	FC-149	203	FLC-056-203-FC149-S	\$85
	FC-149	204	FLC-056-204-S	\$85
	FC-149	205	FLC-0140-S	\$85

D/F FLANGE KITS

NEMA Frames - Cast Iron - TEFC - W22

Frame	Flange Size	Bearing Size	D-Flange Kit	
			Catalog Number	List Price
143/5	FD-254	205	FLD-E140-UBC	\$98
182/4	FD-254	207	FLD-E180-W22	\$171
213/5	FD-254	308	FLD-E210-UBC	\$184
254/6	FD-317	309	FLD-E250-W22	\$244
284/6	FD-317	311	FLD-E280	\$318
324/5	FD-406	312	FLD-E320	\$465
364/5	FD-406	314	FLD-E360-314-W22	\$620
404/5	FD-508	314	FLD-E400-314	\$765
	FD-508	316	FLD-E400-316	\$765
444/5 445/7 447/9	FD-508	314	FLD-E440-314	\$932
	FD-508	314	FLD-E440-314-VENT *	\$1,771
	FD-508	319	FLD-E440-319	\$932
	FD-508	322	FLD-E440-322	\$932
	FD-508	322	FLD-E440-322-VENT *	\$1,864
L447/9	FD-508	314	FLD-EL440-314-VENT *	\$1,890
	FD-508	322	FLD-EL440-322-VENT *	\$1,987
504/5	FD-558	314	FLD-E500-314-W22	\$1,350
	FD-558	319	FLD-E500-319-W22	\$1,350
	FD-558	322	FLD-E500-322-W22	\$1,350
586/7	FD-762	314	FLD-E580-314	\$2,130
	FD-762	314	FLD-E580-314-VENT *	\$2,343
	FD-762	322	FLD-E580-322	\$2,130
	FD-762	322	FLD-E580-322-VENT *	\$2,450
	FD-762	324	FLD-E580-324	\$2,130

* Ventilated for improved Drive end bearing cooling

NEMA Frames - IEEE 841

Frame	Flange Size	Bearing Size	D-Flange Kit	
			Catalog Number	List Price
213/5	FD-254	308	FLD-IE210	\$350
254/6	FD-317	309	FLD-IE250-W22	\$425
284/6	FD-317	311	FLD-IE280	\$490
324/5	FD-406	312	FLD-IE320	\$785
364/5	FD-406	314	FLD-E360-314-W22	\$620
404/5 444/5 445/7 447/9	FD-508	314	FLD-E400-314	\$765
	FD-508	316	FLD-E400-316	\$765
	FD-508	314	FLD-E440-314	\$932
	FD-508	314	FLD-E440-314-VENT *	\$1,771
	FD-508	319	FLD-E440-319	\$932
	FD-508	322	FLD-E440-322	\$932
L447/9	FD-508	314	FLD-EL440-314-VENT *	\$1,890
	FD-508	322	FLD-EL440-322-VENT *	\$1,987
504/5	FD-558	314	FLD-E500-314-W22	\$1,350
	FD-558	319	FLD-E500-319-W22	\$1,350
	FD-558	322	FLD-E500-322-W22	\$1,350
586/7	FD-762	314	FLD-E580-314	\$2,130
	FD-762	314	FLD-E580-314-VENT *	\$2,343
	FD-762	322	FLD-E580-322	\$2,130
	FD-762	322	FLD-E580-322-VENT *	\$2,450
	FD-762	324	FLD-E580-324	\$2,130

* Ventilated for improved Drive end bearing cooling

D/F FLANGE KITS, *continued*

NEMA Frames - Explosion Proof Motors - modifications must be performed by a UL Certified Service Center

Frame	Flange Size	Bearing Size	D-Flange Kit	
			Catalog Number	List Price
143/5	FD-254	205	FLD-X140	\$154
182/4	FD-254	307	FLD-X180	\$210
213/5	FD-254	308	FLD-X210	\$291
254/6	FD-317	309	FLD-X250-W21X	\$534
284/6	FD-317	311	FLD-X280-W21X	\$637
324/5	FD-406	312	FLD-X320-W21X	\$895
364/5	FD-406	314	FLD-X360-314	\$1,141
404/5	FD-508	314	FLD-X400-314	\$1,338
	FD-508	217	FLD-X400-217	\$1,338
444/5	FD-508	314	FLD-X440-314	\$1,878
445/7	FD-508	219	FLD-X440-219	\$1,878
447/9	FD-508	319	FLD-X440-319	\$1,878

Metric (IEC) Frames - Cast Iron - TEFC

Frame	Flange Size	Bearing Size	FF-Flange Kit	
			Catalog Number	List Price
63	FF-115	201	FLF-IM63-AL	\$76
71	FF-130	202	FLF-IM71-BC-W22	\$72
80	FF-165	204	FLF-IM80-AL-BC	\$96
90	FF-165	205	FLF-IM90-AL-UBC	\$98
100	FF-215	206	FLF-IM100-AL-UBC	\$169
112	FF-215	207	FLF-IM112-UBC-W22	\$171
132	FF-265	308	FLF-IM132-AL-UBC	\$184
160	FF-300	309	FLF-IM160-W22	\$245
180	FF-300	311	FLF-IM180	\$318
200	FF-350	312	FLF-IM200	\$465
225	FF-400	314	FLF-IM225-W22	\$620
250	FF-500	314	FLF-IM250	\$765
280	FF-500	314	FLF-IM280-314	\$932
	FF-500	316	FLF-IM280-316	\$932
315	FF-600	314	FLF-IM315-314-W22	\$1,350
	FF-600	319	FLF-IM315-319-W22	\$1,350

D FLANGES FOR OPEN MOTORS

NEMA Frames - Cast Iron - ODP - W40

Frame	Flange Size	Bearing Size	D-Flange Kit		
			ODP*	W40	List Price
284/6	FD-317	311	FLD-0280	FLD-0280-W40	\$318
324/6	FD-406	312	FLD-0320	FLD-0320-W40	\$465
364/5	FD-406	314	FLD-0360-314	FLD-0360-314-W40	\$620
404/5	FD-508	314	FLD-0400-314	FLD-0400-314-W40	\$765
	FD-508	316	FLD-0400-316	FLD-0400-316-W40	\$765
444/5	FD-508	314	FLD-0440-314	-	\$932
447/9	FD-508	319	FLD-0440-319	-	\$932
444/5	FD-508	314	-	FLD-0444/5-314-W40	\$932
	FD-508	319	-	FLD-0444/5-319-W40	\$932
447/9	FD-508	314	-	FLD-0447/9-314-W40	\$932
	FD-508	319	-	FLD-0447/9-319-W40	\$932

* Legacy Models

Drip Cover Kits for TEFC Motors

	Frame	W22 - Cast Iron	W01 - Rolled Steel	List Price
NEMA	48 W56	-	DRCV-E48/W56-S	\$45
	56 140T	-	DRCV-0140-S (for Plastic Fan Cover) DRCV-E56/140-S (for Steel Fan Cover)	\$53
	140T	DRCV-E140	-	\$89
		-	DRCV-0140-S	\$53
	180T	DRCV-E180	DRCV-E180-S	\$128
	210T	DRCV-E210	DRCV-E210-S	\$136
	250T	DRCV-E250-W22	DRCV-E250-S	\$167
	280T	DRCV-E280-W22	-	\$220
	320T	DRCV-E320-W22	-	\$344
	360T	DRCV-E360-W22	-	\$393
	400T	-	-	\$393
		DRCV-E400-W22	-	\$479
	440T	DRCV-E440-W22	-	\$819
	500	-	-	\$819
		DRCV-EL440-W22	-	\$952
	L440T	DRCV-EL440-W22	-	\$952
	580	DRCV-E580-W22	-	\$1,145
METRIC	90	DRCV-E140	-	\$89
	100	DRCV-E100	-	\$89
	112	DRCV-E180	-	\$95
	132	DRCV-E210	-	\$131
	160	DRCV-E250-W22	-	\$152
	180	DRCV-E280-W22	-	\$220
	200	DRCV-E320-W22	-	\$344
	225	DRCV-E360-W22	-	\$393
	250	-	-	\$393
		DRCV-E400-W22	-	\$479
	280	DRCV-E440-W22	-	\$819
	315	-	-	\$819
		DRCV-EL440-W22	-	\$952
	355	DRCV-E580-W22	-	\$1,145

Drip Cover Kits for ODP Motors

Frame	Cast Iron - ODP *	List Price	W40 - Cast Iron	List Price	W01 - Rolled Steel	List Price
48 W56	-	-	-	-	DRCV-E48/W56-S	\$45
C56 56 A56 B56 D56 E56 F56 G56	-	-	-	-	DRCV-056-S	\$45
140T	-	-	-	-	DRCV-0140-S	\$53
180T	-	-	-	-	DRCV-0180-S	\$128
210T	-	-	-	-	DRCV-0210-S	\$136
250T	DRCV-ODP250	\$152	DRCV-0250-W40	\$152	DRCV-0250-S	\$167
280T	DRCV-ODP280	\$220	DRCV-0280-W40	\$220	-	-
320T	DRCV-ODP320	\$366	DRCV-0320-W40	\$366	-	-
360T **	DRCV-ODP360/400	\$410	DRCV-0360-W40	\$410	-	-
360T *** 400T	DRCV-ODP360/400	\$410	DRCV-0360FL-400-W40	\$410	-	-
440T **	DRCV-ODP440	\$613	DRCV-0444/5-W40	\$613	-	-
440T ***	-	-	DRCV-0444/5FL-W40	\$613	-	-

* Legacy Models

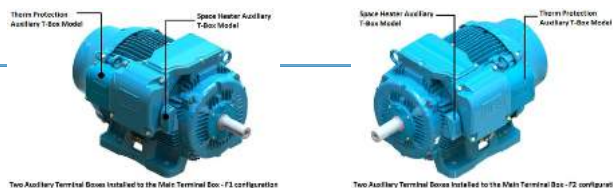
** Footed motors only

*** Footless motors only



W22 Terminal Box - American Standard NPT

IEC Frame Size	NEMA Frame Size	Holes	Part Number	List Price
90 100	143/5	NPT 3/4"	TBX-E140-W22	\$74
112 132	182/4 213/5	NPT 1"	TBX-E180/210-W22	\$104
160 180	254/6 284/6	NPT 1 1/2"	TBX-E250/280-W22	\$155
200	324/6	NPT 2"	TBX-E320-W22	\$226
225 250	364/5 404/5	NPT 3"	TBX-E360/400-3-W22	\$342
280	444/5	2 x NPT 3"	TBX-E440-3-W22	\$523
315S/M	445/7 447/9 504/5	2 x NPT 3"	TBX-E447/505-3-W22	\$749
315L 355M/L	L447/9 586/7	For cable Plate	TBX-EL447/9-586/7-W2	\$1,898
355A/B	588/9	-	Contact Parts	-



Auxiliary Terminal Boxes

For W22 only

Therm Protection Auxiliary Terminal Boxes are designed to be installed on the left side of the Main Terminal Box when F1 (right side when F2)

Frame	Therm Protection Auxiliary T-Box Model	List Price
140T	AUXTBOXF1W22-A	\$135
180T		
210T		
250T	AUXTBOXF1W22-B AUXTBOXF2W22-B	\$171
280T		
320T		
360T	AUXTBOXF1W22-C AUXTBOXF2W22-C	\$270
400T		
440T		
L440T		
500		
580		

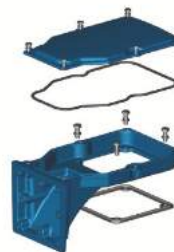
F1 and F2 on model number identifies the appropriate use for the auxiliary t-box.

If separate Auxiliary Terminal boxes are required for Thermal Sensors and Space Heaters, frames 360T and above offer a second Auxiliary Terminal Box just for the Space Heater. The Space Heater Auxiliary Terminal Box is designed to be installed on the opposite side of the Main Terminal Box from the Therm Protection Auxiliary Box.

Frame	Space Heater Auxiliary T-Box Model	List Price
360T	AUXTBOXF1W22-D AUXTBOXF2W22-D	\$270
400T		
440T		
L440T		
500		
580		

W22 Terminal Box Adapter

IEC Frame Size	NEMA Frame Size	Part Number	List Price
225 250	364/5, 404/5	TBX-ADPT-360/400- W22	\$660
280	444/5	TBX-ADPT-444/5-W22	\$777
315S/M	445/7, 447/9, 504/5	TBX-ADPT-444/500- W22	\$921
315L	L447/9	TBX-ADPT-L440-W22	\$1,080
355	586/7 588/9	TBX-ADPT-580-W22	\$1,273



W01 Rolled Steel Terminal Boxes

NEMA Frame Size	Thread size	Part Number	List Price
56 56H	NPT 1/2"	TBX-E56-S	\$40
143/5	NPT 3/4"	TBX-E140-S	\$62
182/4	NPT 3/4"	TBX-E180-S	\$73
213/5	NPT 1"	TBX-E210-S	\$108
254/6	NPT 1 1/4"	TBX-E250-S	\$154

W22 Brake Motor Kit



Kit composition: Stator brake, Seal, Cube, Retaining ring, Key and Rotor brake.

FRAME	SIZE	Nominal Braking torque	205 Vcc	
			Part Number	List Price
143/5	10	16 Nm	BRAKE-E140-W22	\$588
182/4	14	60 Nm	BRAKE-E180-W22	\$972
213/5	16	80 Nm	BRAKE-E210-W22	\$1,410
254/6	18	150 Nm	BRAKE-E250-W22	\$1,985
284/6	20	260 Nm	BRAKE-E280-W22	\$3,454
324/5	25	400 Nm	BRAKE-E320-W22	\$5,453

Braking Disk for W22 Brake Motor



Kit composition: Disc, Cube, Key and Retaining Ring

FRAME	Part Number	List Price
143/5	BDK-BM140-W22	\$422
182/4	BDK-BM180-W22	\$643
213/5	BDK-BM210-W22	\$770
254/6	BDK-BM250-W22	\$934
284/6	BDK-BM280-W22	\$1,610
324/5	BDK-BM320-W22	\$2,814

Fan Cover for W22 Brake Motor



Kit composition: Fan Cover and Fixing bolts.

FRAME	Part Number	List Price
143/5	FCO-BM140-W22	\$185
182/4	FCO-BM180-W22	\$222
213/5	FCO-BM210-W22	\$222
254/6	FCO-BM250-W22	\$406
284/6	FCO-BM280-W22	\$406
324/5	FCO-BM320-W22	\$611



Brake Handle for W22 Brake Motor

Kit composition: Handle and Bolts

Brake Lever - W22 Manual Unlock		
FRAME	Part Number	List Price
143/5	BRKHDL-BM140-W22	\$78
182/4	BRKHDL-BM180-W22	\$127
213/5	BRKHDL-BM210-W22	\$179
254/6	BRKHDL-BM250-W22	\$236
284/6	BRKHDL-BM280-W22	\$453
324/5	BRKHDL-BM320-W22	\$602



Rectifier for W22 Brake Motor

Kit composition: Bridge Rectifier and Bolts

BRAKE RECTIFIER			
Type	VOLTAGE	Part Number	List Price
BRIDGE RECTIFIER	220V	REC-BM220V	\$148
HALF BRIDGE RECTIFIER	360V	REC-BM440V	
	440V		
	575V	REC-BM575V	



Terminal Box for W22 Brake Motor

Kit composition: Terminal box, Fixing bolts, Rubber gaskets, Terminal box cover, Cover fixing bolts.

IEC Frame Size	NEMA Frame Size	H	Part Number	List Price
90 - 100	143/5	NPT	TBX-BM140-W22	\$135
112 - 132	182/4 - 213/5	NP	TBX-BM180/210-W22	\$177
160 - 180	254/6 - 284/6	NPT 1 1/2"	TBX-BM250/280-W22	\$191
200	324/6	NPT 2"	TBX-BM320-W22	\$238

* Stocked terminal boxes are RAL5009 Blue

Encoders

Motor requires Stub-shaft for installation of the encoder (exception to the TENV Vector Duty motors - page A-417)

WEG Catalog Number	MFG Catalog Number	MFG	Specification	List Price
ECHSD38-D	HSD38102484370	Dynapar	PPR:1024/ Bore size: 5/8" / Format: Differential Bi-Directional A/Anot,B/Bnot,Z/Znot/ Output: 5-26Vin, 5-26V differential line driver out (7272 chip set)/ Termination:10 pin MS connector/ Housing: aluminum, slotted tether with cover kit (basket). Optical	\$1,418
ECHS35M-A	HS35MYX6CCU0DA00	Avtron	PPR:1024/ Bore size: 5/8" / Format: Differential Bi-Directional A/Anot,B/Bnot,Z/Znot/ Output: 5-24Vin, 5-24V differential line driver out (7272 chipset)/ Termination:10 pin connector/ Housing: aluminum, slotted tether. Magnetic	\$2,150

Different encoders may be available upon inquiry

Encoders TEBC Motors

Motor Frame	WEG Catalog Number	MFG Catalog Number	MFG	Specification	List Price
140T 180T	ECHSD38-D	HSD38102484370	Dynapar	PPR:1024/ Bore size: 5/8" / Format: Differential Bi-Directional A/Anot,B/Bnot,Z/Znot/ Output: 5-26Vin, 5-26V differential line driver out (7272 chip set)/ Termination:10 pin MS connector/ Housing: aluminum, slotted tether with cover kit (basket). Optical	\$1,418
210T 250T 280T 320T	ECHS35RTEBC-D	HS35R1024837X40	Dynapar	PPR:1024/ Bore size: 5/8" / Format: Differential Bi-Directional A/Anot,B/Bnot,Z/Znot/ Output: 5-26Vin, 5-26V differential line driver out (7272 chip set)/ Termination:10 pin connector W/ PIGTAIL. Housing: aluminum, slotted tether.	\$1,845
360T 400T 440T 500 580	ECHS35RTEBC-D	HS35R1024837X40	Dynapar	PPR:1024/ Bore size: 5/8" / Format: Differential Bi-Directional A/Anot,B/Bnot,Z/Znot/ Output: 5-26Vin, 5-26V differential line driver out (7272 chip set)/ Termination:10 pin connector W/ PIGTAIL. Housing: aluminum, slotted tether.	\$1,845

Stub Shafts

TEFC W22 Motors

Catalog Number	Applicable to W22*:	Description	List Price
STUBSHAFT-B-TEFC	180T 210T 250T 280T 320T	M12X1.75 Thread for use with 5/8" bore encoder	\$240
STUBSHAFT-C-TEFC	360T 400T 440T 580	M20X2.5 Thread for use with 5/8" bore encoder	\$240
STUBSHAFT-D-TEFC	L440T 500		\$270

IMPORTANT: These stub shafts might not be compatible with W21 motors

*Super Premium W22 frames 284T and above have NDE shaft drilled and tapped to receive stub shaft. Any other will require the NDE shaft to be drilled and tapped

TENV Motors (Vector Duty)

Current design of Vector Duty motors do not require stub shaft for encoder installation. The motor is being supplied with dual flange and extended NDE shaft for this purpose (5/8" diameter)

TEBC Motors

Catalog Number	Applicable to W22*:	Description	List Price
STUBSHAFT-A-TEFC	140T	M8X1.25 THREAD for use with 5/8" bore encoder	\$220
STUBSHAFT-B-TEFC	180T 210T 250T 280T 320T	M12X1.75 Thread for use with 5/8" bore encoder	\$240
STUBSHAFT-C-TEFC	360T 400T 440T L440T 500 580	M20X2.5 Thread for use with 5/8" bore encoder	\$240

Encoder Cables

Catalog Number	Description	List Price
ENCCBLMS-10	10 FT. ENCODER CABLE WITH 10 PIN MS CONNECTOR	\$232
ENCCBLMS-20	20 FT. ENCODER CABLE WITH 10 PIN MS CONNECTOR	\$413
ENCCBLMS-30	30 FT. ENCODER CABLE WITH 10 PIN MS CONNECTOR	\$454
ENCCBLMS-50	50 FT. ENCODER CABLE WITH 10 PIN MS CONNECTOR	\$672

Insulated Bearing Housing Endshields

Catalog Number	Frame Series	Bearing Size	List Price
NDE-E360T-314-I-W22	360T	6314	\$2,150
NDE-E400T-314-I-W22	400T	6314	\$2,150
NDE-E440T-314-I-W22	440T	6314	\$2,592
NDE-E440T-316-I-W22	440T	6316	\$2,592
NDE-E440T-319-I-W22	440T	6319	\$2,592
NDE-EL440T-314-I-W22	L440	6314	\$3,220
NDE-EL440T-319-I-W22	L440	6319	\$3,220
NDE-E580-314-I-W22	580	6314	\$3,371
NDE-E580-319-I-W22	580	6319	\$3,371



Competitor C-Box to WEG W22 Frame Adapter

The users report that during installation of new replacement motors, it is far easier to reuse the old junction box rather than break the box loose from the conduit. This becomes difficult however when going from one brand to another, as all manufacturers have a different bolt pattern and bolt size. This adapter plate simplifies this process and makes it easier than ever before.

Catalog Number	Description	List Price
WEG280-SIEM	ADAPTER PLATE WEG/Siemens 280T	\$181
WEG320-SIEM	ADAPTER PLATE WEG/Siemens 320T	\$202
WEG360-400-SIEM	ADAPTER PLATE WEG/Siemens 360T & 400T	\$224
WEG444/5-SIEM	ADAPTER PLATE WEG/Siemens 444/5T	\$228
WEG445/7-447/9-SIEM	ADAPTER PLATE WEG/Siemens 445/7T & 447/9TT	\$263
WEG180-USEM	ADAPTER PLATE WEG/USEM 180T	\$177
WEG250-280-USEM	ADAPTER PLATE WEG/USEM 250T & 280T	\$181
WEG320-USEM	ADAPTER PLATE WEG/USEM 320T	\$202
WEG360-400-USEM	ADAPTER PLATE WEG/USEM 360T & 400T	\$224
WEG445/7-447/9-USEM	ADAPTER PLATE WEG/USEM 445/7T & 447/9TT	\$263
WEG250-280-REL	ADAPTER PLATE WEG/Reliance 250T & 280T	\$181
WEG320-REL	ADAPTER PLATE WEG/Reliance 320T	\$202
WEG360-400-REL	ADAPTER PLATE WEG/Reliance 360T & 400T	\$224
WEG444/5-REL	ADAPTER PLATE WEG/Reliance 444/5T	\$228
WEG445/7-447/9-REL	ADAPTER PLATE WEG/USEM 445/7T & 447/9TT	\$263

Blower Kits for TEFC-to-TEBC Motor Conversion - W22 (200-240/380-415/440-460 with 6 leads)

Frame (NEMA/IEC)	Catalog Number	List Price
140T/90	BLK-E140	\$1,149
180T/112	BLK-E180	\$1,260
210T/132	BLK-E210	\$1,452
250T/160	BLK-E250-W22	\$1,573
280T/180	BLK-E280	\$1,658
320T/200	BLK-E320	\$1,821
360T/225	BLK-E360-W22	\$2,038
400T/250	BLK-E400-W22	\$2,159
444/5T	BLK-E444/5-W22	\$2,561
445/7T 447/9T/280	BLK-E445/7-447/9-W22	\$2,561
500/315	BLK-EL449/500-W22	\$3,025
L440T/315L	BLK-EL449/500-W22	\$3,025
580/355	BLK-E580-W22	\$3,632

* These kit require NDE Endshield be changed for proper fit See pars below

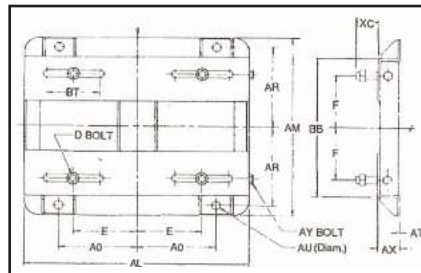
NDE Endshield for Blower kit 250-320T frames

Catalog Number	Frame	Description	List Price
16503637	250T	TEFC-TEBC conversion End Shield -W22	\$140.40
16503738	250T	TEFC-TEBC conversion End Shield - IEEE841	\$500.36
16503739	280T	TEFC-TEBC conversion End Shield -W22	\$211.92
16503740	280T	TEFC-TEBC conversion End Shield - IEEE841	\$501.52
16503741	320T	TEFC-TEBC conversion End Shield -W22	\$283.12
16503742	320T	TEFC-TEBC conversion End Shield - IEEE841	\$535.68

Terminal Block Kits

IEC Frames	NEMA Frames*	Catalog Number	Bolt Thread	List Price
63	-	TERMBLCK-W22-63-100	M4	\$35
71	-			
80	-			
90	140T			
100	-			
112	180T	TERMBLCK-W22-112/132	M5	\$52
132	210T	TERMBLCK-W22-160/180	M6	\$86
160	250T			
180	280T	TERMBLCK-W22-200	M8	\$151
200	320T	TERMBLCK-W22-225/250	M10	\$280
225	360T			
250	400T	TERMBLCK-W22-280	M12	\$533
280	440T			
315	500	TERMBLCK-W22-315S/M	M12	\$533
315L	L440T	TERMBLCK-W22-355M/L	M16	\$1,032
355	580			

* NEMA Frames should require an adapter plate for the terminal block installation



Motor Sliding Bases

Frame	Catalog Number	Style	AR	AU	BT	Shipping Weight (approx)	List Price
143T	SMB-143T	A	3 3/8	3/8	3	5	\$73
145T	SMB-145T	A	3 7/8	3/8	3	6	\$73
182T	SMB-182T	A	4 1/4	1/2	3	9	\$87
182T	SMB-182TA2	A2	4 1/4	1/2	3	9	\$120
184T	SMB-184T	A	4 3/4	1/2	3	10	\$87
184T	SMB-184TA2	A2	4 3/4	1/2	3	10	\$120
213T	SMB-213T	A	4 3/4	1/2	3 1/2	14	\$118
215T	SMB-215T	A	5 1/2	1/2	3 1/2	15	\$118
254T	SMB-254T	B2	6 5/8	5/8	4	17	\$220
256T	SMB-256T	B2	7 1/2	5/8	4	18	\$220
284T	SMB-284T	B2	7 1/2	5/8	4 1/2	21	\$240
286T	SMB-286T	B2	8 1/4	5/8	4 1/2	22	\$240
324T	SMB-324T	B2	8 1/2	3/4	5 1/4	31	\$321
326T	SMB-326T	B2	9 1/4	3/4	5 1/4	32	\$321
364T	SMB-364T	B2	9 1/8	3/4	6	44	\$410
365T	SMB-365T	B2	9 5/8	3/4	6	45	\$410
404T	SMB-404T	B2	9 7/8	7/8	7	55	\$600
405T	SMB-405T	B2	10 5/8	7/8	7	61	\$600
444T	SMB-444T	B2	11	7/8	7 1/2	76	\$746
445T	SMB-445T	B2	12	7/8	7 1/2	78	\$746
447T	SMB-447T	B2	13 3/4	7/8	7 1/2	89	\$1,023
449T	SMB-449T	B2	16 1/4	7/8	7 1/2	95	\$1,023
504T	SMB-504	C	12 1/2	1	-	108	\$1,422
505T	SMB-505	C	13 1/2	1	-	135	\$1,422
586T	SMB-580	Pair of Slide Rails	13	4 3/8	-	183	\$3,504

W22 Plastic Fan Guide (New Motors Only - Contact Parts for Field Replacements)

For "S" Standard Efficiency Level

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
63	-	All	FAN-E63	\$6
71	-	All	FAN-E71	\$7
80	-	All	FAN-E80	\$8
90	143/5	All	FAN-FD56/140-17MM	\$12
100	-	All	FAN-E100	\$18
112	182/4	2	FAN-E180W2102P	\$12
		4/6/8	FAN-E180W2104P	\$19
132	213/5	2	FAN-E2102P	\$17
		4/6/8	FAN-E2104P	\$24
160	254/6	2	FAN-E2502P	\$12
		4/6/8	FAN-E2504P	\$24
180	284/6	2	FAN-E2504P	\$12
		4/6/8	FAN-E2502P	\$24
200	324/6	2	FAN-E3202P	\$18
		4/6/8	FAN-E3204P	\$27

For "P" High Efficiency Level

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
63	-	All	FAN-E63	\$6
71	-	All	FAN-E71	\$7
80	-	2	FAN-E71	\$7
		4/6/8	FAN-E80	\$8
90	143/5	2/4	FAN-E80	\$8
		6/8	FAN-FD56/140-17MM	\$12
100	-	All	FAN-E100	\$18
112	182/4	2/4	FAN-E180W2102P	\$12
		6/8	FAN-E180W2104P	\$19
132	213/5	2/4	FAN-E180W2102P	\$12
		6/8	FAN-E2104P	\$24
160	254/6	2	FAN-E2502P	\$12
		4/6/8	FAN-E2504P	\$24
180	284/6	2	FAN-E2504P	\$12
		4/6/8	FAN-E2502P	\$24
200	324/6	2	FAN-E3202P	\$18
		4/6/8	FAN-E3204P	\$27

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W22 Plastic Fan Guide - continued

For "T" Nema Prem. Efficiency Level

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
63	-	All	FAN-E63	\$6
71	-	All	FAN-E71	\$7
80	-	2	FAN-E71	\$7
		4/6/8	FAN-E80	\$8
90	143/5	2/4	FAN-E80	\$8
		6/8	FAN-FD56/140-17MM	\$12
100	-	All	FAN-E100	\$18
112	182/4	2/4	FAN-E180W2102P	\$12
		6/8	FAN-E180W2104P	\$19
132	213/5	2/4	FAN-E180W2102P	\$12
		6/8	FAN-E2104P	\$24
160	254/6	2/4	FAN-E2502P	\$12
		6/8	FAN-E2504P	\$24
180	284/6	2/4	FAN-E2504P	\$12
		6/8	FAN-E2502P	\$24
200	324/6	2/4	FAN-E3202P	\$18
		6/8	FAN-E3204P	\$27

For "S" and "P" Stand. And High Efficiency Level (360 frame and up)

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
225S/M	364/5	2	FAN-E360/4002P-W22	\$59
		4/6/8	FAN-11482642-W22	\$74
250S/M	404/5	2	FAN-E360/4002P-W22	\$59
		4/6/8	FAN-11482642-W22	\$74
280S/M	444/5 445/7 447/9	2	FAN-E444-505/2P-W22	\$63
		4/6/8	FAN-E440/500468P-W22	\$89
315S/M	504/5	2	FAN-11482679-W22	\$66
		4/6/8	FAN-E444-505/2P-W22	\$63
315L	-	2	FAN-11482679-W22	\$66
		4/6/8	N/A	
-	L447/9	2	FAN-11482679-W22	\$66
		4/6/8	N/A	
355M/L	586/7	2	FAN-11482679-W22	\$66
		4/6/8	N/A	
355A/B	588/9	All	N/A	

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W22 Plastic Fan Guide - *continued*

For "T" Nema Prem. Efficiency Level (360 and up)

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
225S/M	364/5	2	FAN-E360/4002P-W22	\$59
		4	FAN-E444-505/2P-W22	\$63
		6/8	FAN-11482642-W22	\$74
250S/M	404/5	2	FAN-E360/4002P-W22	\$59
		4	FAN-11482679-W22	\$66
		6/8	FAN-11482642-W22	\$74
280S/M	444/5 445/7 447/9	2	FAN-E444-505/2P-W22	\$63
		4	FAN-11482642-W22	\$74
		6/8	FAN-E440/500468P-W22	\$89
315S/M	504/5	2	FAN-E444-505/2P-W22	\$63
		4	FAN-11482642-W22	\$74
		6/8	FAN-E440/500468P-W22	\$89
315L	-	2	FAN-11482679-W22	\$66
		4	FAN-E440/500468P-W22	\$89
		6/8	N/A	
-	L447/9	2	FAN-11482679-W22	\$66
		4/6/8	N/A	
355M/L	586/7	2	FAN-11482679-W22	\$66
		4	FAN-11482679-W22	\$66
		6/8	N/A	
355A/B	588/9	All	N/A	

W22 Aluminum Fan Guide (New Motors Only - Contact Parts for Field Replacements)

For "S" Standard Efficiency Level

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
63	-	All	FAN-E63-AL	\$55
71	-	All	FAN-E71-AL	\$70
80	-	All	FAN-E80-AL	\$88
90	143/5	All	FAN -E1404P-AL	\$116
100	-	All	FAN-E100-AL	\$161
112	182/4	2	FAN-E180W21024P-AL	\$112
		4/6/8	FAN-E1804P-AL-B	\$223
132	213/5	2	FAN-E210-2/8P-AL	\$147
		4/6/8	FAN-E210-4/6P-AL	\$313
160	254/6	2	FAN-E2502-4P-AL-W22	\$116
		4/6/8	FAN-E2504P-AL-B	\$259
180	284/6	2	FAN-E2502P-AL -W22	\$112
		4/6/8	FAN-E2504P-AL-B	\$161
200	324/6	2	FAN-E3202P-AL-W22	\$157
		4/6/8	FAN-E3204P-AL	\$421

For "P" High Efficiency Level

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
63	-	All	FAN-E63-AL	\$55
71	-	All	FAN-E71-AL	\$70
80	-	2	FAN-E71-AL	\$70
		4/6/8	FAN-E80-AL	\$88
90	143/5	2/4	FAN-E80-AL	\$88
		6/8	FAN-E1404P-AL	\$116
100	-	All	FAN-E100-AL	\$161
112	182/4	2/4	FAN-E180W21024P-AL	\$112
		6/8	FAN-E1804P-AL-B	\$223
132	213/5	2/4	FAN-E180W21024P-AL	\$112
		6/8	FAN-E210-4/6P-AL	\$313
160	254/6	2	FAN-E2502-4P-AL-W22	\$116
		4/6/8	FAN-E2504P-AL-B	\$259
180	284/6	2	FAN-E2502P-AL -W22	\$112
		4/6/8	FAN-E2504P-AL-B	\$161
200	324/6	2	FAN-E3202P-AL-W22	\$157
		4/6/8	FAN-E3204P-AL	\$421

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W22 Aluminum Fan Guide - *continued*

For "T" NEMA Premium® Efficiency Level

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
63	-	All	FAN-E63-AL	\$55
71	-	All	FAN-E71-AL	\$70
80	-	2	FAN-E71-AL	\$70
		4/6/8	FAN-E80-AL	\$88
90	143/5	2/4	FAN-E80-AL	\$88
		6/8	FAN-E1404P-AL	\$116
100	-	All	FAN-E100-AL	\$161
112	182/4	2/4	FAN-E180W21024P-AL	\$112
		6/8	FAN-E1804P-AL-B	\$223
132	213/5	2/4	FAN-E180W21024P-AL	\$112
		6/8	FAN-E210-4/6P-AL	\$313
160	254/6	2/4	FAN-E2502-4P-AL-W22	\$116
		6/8	FAN-E2504P-AL-B	\$259
180	284/6	2/4	FAN-E2502P-AL -W22	\$112
		6/8	FAN-E2504P-AL-B	\$161
200	324/6	2/4	FAN-E3202P-AL-W22	\$157
		6/8	FAN-E3204P-AL	\$421

For "S" and "P" Efficiency Level (Frame sizes 360 and up)

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
225S/M	364/5	2	FAN-E360-4002PAL-W22	\$205
		4/6/8	FAN-11101736-AL-W22	\$580
250S/M	404/5	2	FAN-E360-4002PAL-W22	\$205
		4/6/8	FAN-11101736-AL-W22	\$580
280S/M	444/5 445/7 447/9	2	FAN-11101737-AL-W22	\$250
		4/6/8	FAN-W22-11101738-AL	\$902
315S/M	504/5	2	FAN-W22-11101739-AL	\$280
		4/6/8	FAN-W22-11101738-AL	\$902
315L	-	2	FAN-W22-11101739-AL	\$280
		4/6/8	FAN-W22-11101744-AL	\$2,042
-	L447/9	2	FAN-W22-11101739-AL	\$280
		4/6/8	FAN-W22-11101744-AL	\$2,042
355M/L	586/7	2	FAN-W22-11101739-AL	\$280
		4	FAN-W22-11101744-AL	\$2,042
		6/8	FAN-11101746-AL-W22	\$3,293
355A/B	588/9	2	FAN-11272463-AL-W22	\$511
		4	FAN-W22-11101744-AL	\$2,042
		6/8	FAN-11101746-AL-W22	\$3,293

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W22 Aluminum Fan Guide - *continued*

For "T" Nema Prem. Efficiency Level(Frame sizes 360 and up)

IEC FRAME SIZE	NEMA FRAME SIZE	POLE	Catalog Number	List Price
225S/M	364/5	2	FAN-E360-4002PAL-W22	\$205
		4	FAN-11101737-AL-W22	\$250
		6/8	FAN-11101736-AL-W22	\$580
250S/M	404/5	2	FAN-E360-4002PAL-W22	\$205
		4	FAN-W22-11101739-AL	\$280
		6/8	FAN-11101736-AL-W22	\$580
280S/M	444/5 445/7 447/9	2	FAN-11101737-AL-W22	\$250
		4	FAN-11101736-AL-W22	\$580
		6/8	FAN-W22-11101738-AL	\$902
315S/M	504/5	2	FAN-11101737-AL-W22	\$250
		4	FAN-11101736-AL-W22	\$580
		6/8	FAN-W22-11101738-AL	\$902
315L	-	2	FAN-W22-11101739-AL	\$280
		4	FAN-W22-11101738-AL	\$902
		6/8	FAN-W22-11101744-AL	\$2,042
-	L447/9	2	FAN-W22-11101739-AL	\$280
		4/6/8	FAN-W22-11101744-AL	\$2,042
355M/L	586/7	2	FAN-W22-11101739-AL	\$280
		4	FAN-W22-11101738-AL	\$902
		6/8	FAN-11101746-AL-W22	\$3,293
355A/B	588/9	2	FAN-11272463-AL-W22	\$511
		4	FAN-W22-11101744-AL	\$2,042
		6/8	FAN-11101746-AL-W22	\$3,457

W22 Fan Cover

IEC Frame Size	NEMA Frame Size	Note	Catalog Number	List Price
63	-	N/A	FC0-E63	\$23
71	-		FC0-E71	\$23
80	-		FC0-E80	\$23
90	143/5		FC0-E140-W22	\$26
100	-		FC0-E100	\$33
112	182/4		FC0-E180-W22	\$38
132	213/5		FC0-E210-W22	\$53
160	254/6	For Motors with Grease Nipple	FC0-E250-W22	\$121
180	284/6		FC0-E280-W22	\$149
200	324/6		FC0-E320-W22	\$256
225	364/5		FC0-E360-W22	\$672
250	404/5		FC0-E400-W22	\$672
280	444/5 445/7 447/9		FC0-E440-W22	\$1,032
315	504/5		FC0-E500-W22	\$1,032
-	L447/9		FC0-EL440-W22	\$1,032
355	586/7 588/9		FC0-E580-W22	\$1,605

W01 Rolled Steel Fan

NEMA Frame Size	Pole	Part number	List Price
48 W56	All	FAN-E80	\$8
56 56H	All	FAN-FD56/140-15MM	\$12
143/5	All	FAN-FD56/140-15MM	\$12
182/4	2	FAN-FD56/140-15MM	\$12
	4/6	FAN-E100	\$18
213/5	2	FAN-E180W2102P	\$12
	4/6	FAN-E180W2104P	\$19
254/6	2	FAN-E2102P	\$17
	4/6	FAN-E2104P	\$24

W01 Rolled Steel Fan Cover

NEMA Frame Size	Part number	List Price
48 W56	FCO-E48/W56-S	\$20
56 56H 143/5	FCO-E56/140-S (Plastic Fan Cover) FCO-E56/140-STL-S (Steel Fan Cover) Not interchangeable	\$18.20
143/5	FCO-E56/140-S	\$19
182/4	FCO-E180-S	\$45.30
213/5	FCO-E210-S	\$49
254/6	FCO-E250-S	\$89

- Models in black text are Standard Efficiency
- Models in blue text are NEMA Premium® Efficiency
- Models in green text are NEMA Super Premium Efficiency

Catalog Notes

1	1.0 Service Factor	31	Rating is suitable for 1.0SF @ 50Hz. Also suitable for next lower HP @ 1.15SF 50Hz
2	Aluminum Frame with Removable Feet	32	Suitable for 1.15SF @ 50°C ambient
3	Automatic Reset Thermal Overload Protector	33	Suitable for 380V 60Hz when wired as YY (double WYE)
4	Manual Reset Thermal Overload Protector	34	AEGIS® Inside
5	CCW Rotation Viewed from Shaft End - Non Reversible	35	AEGIS® ring installation reduces the available "N-W" length
6	Compressor Duty	36	Super Premium
7	F2 Mount	37	Design A
8	F3 Mount	38	TEAO - Totally Enclosed Air Over
9	Rolled Steel Frame - Cannot be modified with T Box on opposite side	39	Cannot be modified with T Box on opposite side
10	Not Thermally Protected	40	NDE shaft with 3/8" drive socket
11	Metal fan - Not suitable for division 2	41	Also rated 230/460V 50Hz 1.0 SF
12	Reduced Frame	42	Rated 50°C ambient
13	Resilient Base	43	With insulated non drive end housing
14	Roller Bearing	44	With air deflector. Flange MOD not available
15	Round Body - Drip Cover Included	45	Also rated 380V 50Hz
16	Split-Phase Motor	46	56J shaft end with dual opposed threads (7/16-20 UNF-2A R.H and 3/8-16 UNF-2A L.H)
17	TENV - Totally Enclosed Non Ventilated	47	Motor designed with copper bar rotor
18	Z-Frame; Bigger Shaft Diameter and Bearings	48	Motor suitable for safe area only
19	105K Temperature Rise; VFD service requires HP derate	49	Rating suitable for replate to 1.15SF on variable torque VFD power
20	Round Body - Drip Cover NOT Included	50	Rating requires replate to Class H insulation for 1.15SF on variable torque VFD power
21	Stainless Steel Body	51	Not normally stocked. Factory build lead time may apply
22	Two Speed - Double Windings		
23	Two Speed - Single Winding		
24	Modified item. Usually ships in two weeks		
25	Brake rectifier suitable for 230VAC		
26	Brake rectifier suitable for 460VAC		
27	For Export Only (not to be used in the USA) due to Certification and/or Efficiency requirements.		
28	ODP Fan Cooled		
29	Standard Efficiency		
30	High Efficiency (EPACT)		