## Pump Genius

## Pump Process Control Software



## WEG Pump Genius

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


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

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


PC Software - Free Download from www.weg.net/us

## WEG Pump Genius

## Performance Features

- 2-75 HP @ 230 Vac and 2-600 HP @ 480 Vac
- Overload capacity: nominal $110 \%$ for 60 sec . (150\% peak)
- Adjustable accel/decel: 0.0 to 900.0 Sec.
- Controlled speed range: 1:20
- Critical frequency rejection: 3 selectable, adjustable bands
- Torque-limiting: 30-180\%
- Torque boost: full range, automatic
- Power loss ride-thru: 2 sec
- Fault Auto-Reset with programmable time interval
- Feedback signal loss detection
- Serial communications loss detection
- "Up / Down" floating point control capability (PI)
- Pump Sleep function
- Run-permissive input


## Pump Control Features

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


## Drive and Motor Protective Features

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


## Pump Protective Features

- Dry Pump
- Air in System
- Blocked Impeller
- Pump over Cycling
- No Flow Protection
- Loss of Prime
- Transducer Loss
- Over Torque
- Anti-Cavitation



## Pump Genius Operation

Pump Genius software works with the WEG CFW11 drive to control pump system processes. The software monitors system pressure or flow and adjusts pump speed to meet pumping requirements.

Pump Genius - Simplex (Single Pump Control)

## Pump Genius - Simplex Operation

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

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


Pump Genius - Simplex Configuration

| Motor Voltage | ND / VT ${ }^{1}$ |  | HD / CT ${ }^{1}$ |  | Catalog Number | Braking Transistor | Frame Size | Dimensions (in.) HxWxD | Approx. Weight (lbs.) | List Price | Multiplier |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Motor $H^{2}{ }^{2}$ | Drive Amps ${ }^{3}$ | Motor HP ${ }^{2}$ | Drive Amps ${ }^{3}$ |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { O} \\ & \stackrel{\sim}{0} \\ & \hline \end{aligned}$ | Input Power Supply: Single or Three-Phase 200-240 Vac with Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | $11 / 2$ | 6.0 | 11/2 | 5.0 | CFW110006B20N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,779 | V1 |
|  | 2 | 7.0 | 2 | 7.0 | CFW110007B20N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,851 | V1 |
|  | Input Power Supply: Single-Phase 200-240 Vac with Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 3 | 10 | 3 | 10 | CFW110010S20N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,947 | V1 |
|  | Input Power Supply: Three-Phase 200-240 Vac with Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 2 | 7.0 | 11/2 | 5.5 | CFW110007T20N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,755 | V1 |
|  | 3 | 10 | 2 | 8.0 | CFW110010T20N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,827 | V1 |
|  | 5 | 13 | 3 | 11 | CFW110013T20N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,863 | V1 |
|  | 5 | 16 | 5 | 13 | CFW110016T20N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,985 | V1 |
|  | $71 / 2$ | 24 | $71 / 2$ | 20 | CFW110024T20N1Z-PGS | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$2,559 | V1 |
|  | 10 | 28 | 10 | 24 | CFW110028T20N1Z-PGS | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$2,776 | V1 |
|  | 10 | 34 | 10 | 28 | CFW110033T20N1Z-PGS | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$3,325 | V1 |
|  | 15 | 45 | 15 | 36 | CFW110045T20N1Z-PGS | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$3,776 | V1 |
|  | 20 | 54 | 20 | 45 | CFW110054T20N1Z-PGS | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$4,535 | V1 |
|  | 25 | 70 | 20 | 56 | CFW110070T20N1Z-PGS | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$6,735 | V1 |
|  | 30 | 86 | 25 | 70 | CFW110086T20N1Z-PGS | Yes | D | $19.9 \times 11.9 \times 12.0$ | 72 | \$7,357 | V1 |
|  | 40 | 105 | 30 | 86 | CFW110105T20N1Z-PGS | Yes | D | $19.9 \times 11.9 \times 12.0$ | 72 | \$9,135 | V1 |
|  | Input Power Supply: Three-Phase 200-240 Vac without Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 50 | 142 | 40 | 115 | CFW110142T20N1Z-PGS | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$11,784 | V1 |
|  | 60 | 180 | 50 | 142 | CFW110180T20N1Z-PGS | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$15,260 | V1 |
|  | 75 | 211 | 60 | 180 | CFW110211T20N1Z-PGS | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$21,695 | V1 |

Input Power Supply: Three-Phase 380-480 Vac with Dynamic Braking Transistor

| 2 | 3.6 | 2 | 3.6 | CFW110003T40N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,751 | V1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 5.0 | 3 | 5.0 | CFW110005T40N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,785 | V1 |
| 5 | 7.0 | 3 | 5.5 | CFW110007T40N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,847 | V1 |
| $71 / 2$ | 10 | 5 | 10 | CFW110010T40N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,104 | V1 |
| 10 | 13.5 | $71 / 2$ | 11 | CFW110013T40N1Z-PGS | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,203 | V1 |
| 10 | 17 | 10 | 13.5 | CFW110017T40N1Z-PGS | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$2,665 | V1 |
| 15 | 24 | 10 | 19 | CFW110024T40N1Z-PGS | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$3,127 | V1 |
| 20 | 31 | 15 | 25 | CFW110031T40N1Z-PGS | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$4,008 | V1 |
| 25 | 38 | 20 | 33 | CFW110038T40N1Z-PGS | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$4,435 | V1 |
| 30 | 45 | 25 | 38 | CFW110045T40N1Z-PGS | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$5,535 | V1 |
| 40 | 58.5 | 30 | 47 | CFW110058T40N1Z-PGS | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$6,768 | V1 |
| 50/60 | 70.5 | 40 | 61 | CFW110070T40N1Z-PGS | Yes | D | $19.9 \times 11.9 \times 12.0$ | 72 | \$7,635 | V1 |
| 60/75 | 88 | 50 | 73 | CFW110088T40N1Z-PGS | Yes | D | $19.9 \times 11.9 \times 12.0$ | 72 | \$9,035 | V1 |
| Input Power Supply: Three-Phase 380-480 Vac without Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
| 75 | 105 | 75 | 88 | CFW110105T40N1Z-PGS | No | E ${ }^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$10,785 | V1 |
| 100/125 | 142 | 75 | 115 | CFW110142T40N1Z-PGS | No | E ${ }^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$12,635 | V1 |
| 150 | 180 | 100/125 | 142 | CFW110180T40N1Z-PGS | No | $\mathrm{E}^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$17,635 | V1 |
| 175 | 211 | 150 | 180 | CFW110211T40N1Z-PGS | No | E ${ }^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$21,135 | V1 |
| 200 | 242 | 150 | 211 | CFW110242T4SZ-PGS | No | $\mathrm{F}^{4,5}$ | $48.6 \times 16.9 \times 14.2$ | 309 | \$23,135 | V1 |
| 250 | 312 | 200 | 242 | CFW110312T4SZ-PGS | No | $\mathrm{F}^{4,5}$ | $48.6 \times 16.9 \times 14.2$ | 309 | \$29,501 | V1 |
| 300 | 370 | 250 | 312 | CFW110370T4SZ-PGS | No | $\mathrm{F}^{4,5}$ | $48.6 \times 16.9 \times 14.2$ | 309 | \$31,449 | V1 |
| 400 | 477 | 300 | 370 | CFW110477T4SZ-PGS | No | $\mathrm{F}^{4,5}$ | $48.6 \times 16.9 \times 14.2$ | 309 | \$41,162 | V1 |
| 450 | 515 | 400 | 477 | CFW110515T4SZ-PGS | No | G 4,5 | $50 \times 21.1 \times 16.8$ | 474 | \$44,105 | V1 |
| 500 | 601 | 450 | 515 | CFW110601T4SZ-PGS | No | $\mathrm{G}^{4,5}$ | $50 \times 21.1 \times 16.8$ | 474 | \$50,223 | V1 |
| 600 | 720 | 500 | 560 | CFW110720T4SZ-PGS | No | G ${ }^{4,5}$ | $50 \times 21.1 \times 16.8$ | 474 | \$59,465 | 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) Maximum $45^{\circ} \mathrm{C}$ ambient temperature without derating
5) IP20 enclosure protection level


Pump Genius - Multiplex (Multiple Pump System Control)

## Pump Genius - Multiplex Operation

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

- A minimum of one (1) VFD in the system is programmed as "Master/Slave". This "Master/Slave" VFD has the capability to control the entire multiplex pump system (up to five (5) VFDs). Each "Master/Salve" VFD needs an analog feedback from the process (pressure or flow) connected to its respective analog input.
- Any VFDs in the system that are not programmed for "Master/Slave" operation will be set up in "Slave" mode and will follow commands from the lead "Master/Salve" VFD. A VFD set up as "Slave" is not capable of controlling the Pump Genius system.
- To establish a redundant pump configuration, at least two (2) VFDs need to be programmed as "Master/ Salve". The lead "Master/Salve" VFD will control the entire system and the following operating sequence will be followed:
- The Pump and Motor with the least run time will be the first to start.
- The Pump and Motor with the highest run time will be the first to stop.
- A fault condition in the lead VFD such as 'Communication Loss', 'Feedback Signal Lost / Broken Wire’, or a 'Drive Fault' will cause the pump system to transfer control to another "Master/Slave" VFD and the pump system will restart.
- VFDs ordered using the "Pump Genius - Multiplex" (CFW11xxxxxxxZ-PGM) part number are provided with an RS-485 communication module and the 'Multiplex' version of Pump Genius software installed in the VFD.


Pump Genius - Multiplex Configuration


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

| Motor Voltage | ND / VT ${ }^{1}$ |  | HD / CT ${ }^{1}$ |  | Catalog Number | Braking Transistor | Frame Size | Dimensions (in.) HxWxD | Approx. Weight (lbs.) | List Price | Multiplier |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Motor $H^{2}$ | Drive Amps ${ }^{3}$ | Motor HP ${ }^{2}$ | Drive Amps ${ }^{3}$ |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { O} \\ & \text { N } \\ & \text { N} \end{aligned}$ | Input Power Supply: Single or Three-Phase 200-240 Vac with Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 11/2 | 6.0 | 11/2 | 5.0 | CFW110006B20N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,019 | V1 |
|  | 2 | 7.0 | 2 | 7.0 | CFW110007B20N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,091 | V1 |
|  | Input Power Supply: Single-Phase 200-240 Vac with Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 3 | 10 | 3 | 10 | CFW110010S20N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,187 | V1 |
|  | Input Power Supply: Three-Phase 200-240 Vac with Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 2 | 7.0 | $11 / 2$ | 5.5 | CFW110007T20N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,995 | V1 |
|  | 3 | 10 | 2 | 8.0 | CFW110010T20N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,067 | V1 |
|  | 5 | 13 | 3 | 11 | CFW110013T20N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,103 | V1 |
|  | 5 | 16 | 5 | 13 | CFW110016T20N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,225 | V1 |
|  | $71 / 2$ | 24 | $71 / 2$ | 20 | CFW110024T20N1Z-PGM | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$2,799 | V1 |
|  | 10 | 28 | 10 | 24 | CFW110028T20N1Z-PGM | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$3,016 | V1 |
|  | 10 | 34 | 10 | 28 | CFW110033T20N1Z-PGM | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$3,565 | V1 |
|  | 15 | 45 | 15 | 36 | CFW110045T20N1Z-PGM | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$4,016 | V1 |
|  | 20 | 54 | 20 | 45 | CFW110054T20N1Z-PGM | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$4,775 | V1 |
|  | 25 | 70 | 20 | 56 | CFW110070T20N1Z-PGM | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$6,975 | V1 |
|  | 30 | 86 | 25 | 70 | CFW110086T20N1Z-PGM | Yes | D | $19.9 \times 11.9 \times 12.0$ | 72 | \$7,597 | V1 |
|  | 40 | 105 | 30 | 86 | CFW110105T20N1Z-PGM | Yes | D | $19.9 \times 11.9 \times 12.0$ | 72 | \$9,375 | V1 |
|  | Input Power Supply: Three-Phase 200-240 Vac without Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 50 | 142 | 40 | 115 | CFW110142T20N1Z-PGM | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$12,024 | V1 |
|  | 60 | 180 | 50 | 142 | CFW110180T20N1Z-PGM | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$15,500 | V1 |
|  | 75 | 211 | 60 | 180 | CFW110211T20N1Z-PGM | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$21,935 | V1 |
| $$ | Input Power Supply: Three-Phase 380-480 Vac with Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 2 | 3.6 | 2 | 3.6 | CFW110003T40N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$1,991 | V1 |
|  | 3 | 5.0 | 3 | 5.0 | CFW110005T40N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,025 | V1 |
|  | 5 | 7.0 | 3 | 5.5 | CFW110007T40N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,087 | V1 |
|  | $71 / 2$ | 10 | 5 | 10 | CFW110010T40N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,344 | V1 |
|  | 10 | 13.5 | $71 / 2$ | 11 | CFW110013T40N1Z-PGM | Yes | A | $12.1 \times 5.8 \times 9.0$ | 13.9 | \$2,443 | V1 |
|  | 10 | 17 | 10 | 13.5 | CFW110017T40N1Z-PGM | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$2,905 | V1 |
|  | 15 | 24 | 10 | 19 | CFW110024T40N1Z-PGM | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$3,367 | V1 |
|  | 20 | 31 | 15 | 25 | CFW110031T40N1Z-PGM | Yes | B | $13.9 \times 7.5 \times 9.0$ | 23 | \$4,248 | V1 |
|  | 25 | 38 | 20 | 33 | CFW110038T40N1Z-PGM | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$4,675 | V1 |
|  | 30 | 45 | 25 | 38 | CFW110045T40N1Z-PGM | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$5,775 | V1 |
|  | 40 | 58.5 | 30 | 47 | CFW110058T40N1Z-PGM | Yes | C | $17.7 \times 8.7 \times 11.5$ | 46 | \$7,008 | V1 |
|  | 50/60 | 70.5 | 40 | 61 | CFW110070T40N1Z-PGM | Yes | D | $19.9 \times 11.9 \times 12.0$ | 72 | \$7,875 | V1 |
|  | 60/75 | 88 | 50 | 73 | CFW110088T40N1Z-PGM | Yes | D | $19.9 \times 11.9 \times 12.0$ | 72 | \$9,275 | V1 |
|  | Input Power Supply: Three-Phase 380-480 Vac without Dynamic Braking Transistor |  |  |  |  |  |  |  |  |  |  |
|  | 75 | 105 | 75 | 88 | CFW110105T40N1Z-PGM | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$11,025 | V1 |
|  | 100/125 | 142 | 75 | 115 | CFW110142T40N1Z-PGM | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$12,875 | V1 |
|  | 150 | 180 | 100/125 | 142 | CFW110180T40N1Z-PGM | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$17,875 | V1 |
|  | 175 | 211 | 150 | 180 | CFW110211T40N1Z-PGM | No | $E^{4}$ | $26.6 \times 13.2 \times 14.1$ | 144 | \$21,375 | V1 |
|  | 200 | 242 | 150 | 211 | CFW110242T4SZ-PGM | No | $\mathrm{F}^{4,5}$ | $48.6 \times 16.9 \times 14.2$ | 309 | \$23,375 | V1 |
|  | 250 | 312 | 200 | 242 | CFW110312T4SZ-PGM | No | $F^{4,5}$ | $48.6 \times 16.9 \times 14.2$ | 309 | \$29,741 | V1 |
|  | 300 | 370 | 250 | 312 | CFW110370T4SZ-PGM | No | $F^{4,5}$ | $48.6 \times 16.9 \times 14.2$ | 309 | \$31,689 | V1 |
|  | 400 | 477 | 300 | 370 | CFW110477T4SZ-PGM | No | $\mathrm{F}^{4,5}$ | $48.6 \times 16.9 \times 14.2$ | 309 | \$41,402 | V1 |
|  | 450 | 515 | 400 | 477 | CFW110515T4SZ-PGM | No | $\mathrm{G}^{4,5}$ | $50 \times 21.1 \times 16.8$ | 474 | \$44,345 | V1 |
|  | 500 | 601 | 450 | 515 | CFW110601T4SZ-PGM | No | G ${ }^{4.5}$ | $50 \times 21.1 \times 16.8$ | 474 | \$50,463 | V1 |
|  | 600 | 720 | 500 | 560 | CFW110720T4SZ-PGM | No | G 4.5 | $50 \times 21.1 \times 16.8$ | 474 | \$59,705 | V1 |

Notes:

1) $\mathrm{CT}=$ 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.
2) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.
3) Maximum $45^{\circ} \mathrm{C}$ ambient temperature without derating
4) IP20 enclosurepretestisublecelt to change without notice.

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