

| | Main Feature | es | | |
|--|--|---|---|---------------------------|
| Reference Product code Product reference Accessory module (c | | : CFW500A01P6T4NB20H00G2 : 15572911 : CFW500 G2 : Without plug-in | | 0H00G2 |
| Basic data Power supply Input minimum-maximum - In | voltage | : 380-480 V : 323-528 V : 3 | | |
| - Out | | : 3 | | |
| Supply voltage range | | | 380-480 V | |
| Overload cicle Rated current | | Normal Overload (ND Not applicable |) Heav | /y Overload (HD) 1.6 A |
| Overload current for 60 se | 9C | Not applicable | | 2,4 A |
| Overload current for 3 sec | - | Not applicable | | 3,2 A |
| laximum applicable motor: | | 1 ···· PF ····· | I | · · |
| | | Pov | ver (HP/kW) [1] | |
| Voltage/Frequ | | Normal Overload (ND) | Heavy | Overload (HD) |
| 380V / 50H | | Not applicable | 0, | 75 / 0,55 |
| 380V / 60H | | Not applicable | | 75 / 0,55 |
| 400V / 50H | | Not applicable | | 75 / 0,55 |
| 400V / 60H 440V / 50H | | Not applicable Not applicable | | ,75 / 0,55 1 / 0,75 |
| 440V / 501 440V / 60H | | Not applicable | | 1 / 0,75 |
| 460V / 60H | | Not applicable | | 1 / 0,75 |
| 480V / 60H | Hz | Not applicable | | 1 / 0,75 |
| DC power supply Standard switching freque Selectable switching frequ Real-time clock Copy Function Dissipated power: | rvoltage t [3] [3] wer up cycles - on/off) per ncy | : Category III : Not applicable : 1,9 A : 0,75 : 0,98 : ≥ 97% hour : 10 (1 each 6 n : Not allow : 5 kHz : 2,5 and 15 kH : Not available : Yes, by MMF o | -in to 3% of input rated line v ninutes) z pu plug-in ou alphanumer | |
| Mounting type | Ove | | rload HD | |
| Surface | Not applicable | | 25 W | |
| Flange | | applicable | Not applicable | |
| Source available to th Output voltage Maximum capacity Control/performance Power supply Control method - inductior Encoder interface Control output frequency [| data n motor | : 24 Vcc : 150 mA : Switched-mode power supply : V/f, VVW, Sensorless, Encod : Only with plug-in : 0-500 Hz | | |
| Frequency resolution | -1 | : 0.015 Hz | | |
| | | | | |
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Control/performance data

- V/F Control - Speed regulation
- Speed variation
- **VVW Control**
- Speed regulation - Speed variation
- Sensorless vector control
- Speed regulation
- Speed variation
- Vector control with Encoder
 - Speed regulation
 - Speed variation

Analog Inputs

Quantity (standard) Levels Impedance for voltage input Impedance for current input Function Maximum allowed voltage

Digital inputs

Quantity (standard) Activation Maximum low level Minimum high level Input current . Maximum input current Function Maximum allowed voltage

Analog outputs

Quantity (standard) Levels RL for voltage output RL for current output Function

Digital outputs

Quantity (standard) Maximum voltage Maximum current Function

Communication

- Modbus-RTU (with accessory: Any plug-in module)
- Modbus/TCP (with accessory CFW500-CEMB-
- TCP)
- Profibus DP (with accessory: CFW500-CPDP)
 Profibus DPV1 (with accessory: CFW500-CPDP)
- Profinet (with accessory CFW500-CEPN-IO)
- CANopen (with accessory: CFW500-CCAN)
- DeviceNet (with accessory: CFW500-CCAN) - EtherNet/IP (with accessory CFW500-CETH-IP)
- EtherCAT (Not available)
- BACnet (CFW500 G2 / CFW501 G2 / MW500 G2 with accessory: Any plug-in module)

- Available protection
- Output phase-phase overcurrente/Short - Overcurrent/Short circuit phase-ground
- Under/Overvoltage in power
- Heat sink overtemperature
- Motor overload
- IGBT's modules overload
- Fault/External alarm
- Programming error

Operation interface (HMI)

Avaliability HMI installation Number of HMI buttons Display Indication accuracy Speed resolution

: Included in the product : Fixed HMI : 9 : Numeric LCD : 5% of rated current : 0,1 Hz

: 1% of rated speed

: 1% of rated speed

: 0,5% of rated speed

: 0,1% of nominal speed

: 1:20

: 1:30

: 1:100

: Up to 0 rpm

: Only with plug-in

: Not applicable : Not applicable

: Not applicable

: Not applicable

: Not applicable

: Only with plug-in

: Not applicable

: Not applicable

: Not applicable : Not applicable

: Not applicable : Not applicable

: Not applicable

: Only with plug-in

: Not applicable : Not applicable

: Not applicable

: Not applicable

: Only with plug-in

: Not applicable

: Not applicable

: Not applicable





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| variable Speed Drives | | | | |
|---|--|--|--|--|
| Operation interface (HMI) | | | | |
| Standard HMI degree of protection | : IP20 | | | |
| | | | | |
| HMI battery type | : Not applicable | | | |
| HMI battery life expectancy | : Not applicable | | | |
| Remote HMI type | : Accessory | | | |
| Remote HMI frame | : Not applicable | | | |
| Remote HMI degree of protection | : IP54 | | | |
| Ambient conditions | | | | |
| Enclosure | : IP20 | | | |
| Pollution degree (EN50178 and UL508C) | : 2 | | | |
| Temperature around the inverter: of -10 $^{\circ}$ C / 1 reduction of 2 % per $^{\circ}$ C of 50 (122) o 60 $^{\circ}$ C (1 | 40 °F). | ve the specified is necessary to apply current | | |
| Relative humidity: 5% to 95% without condense | | | | |
| Altitude: up to 1000 m (3281 ft) under normal of 100 m above (0,3% for each 100 ft above) of 7 models 380480 V and 600 V for models 500 | 1000 m (3281 ft). Reduce the maximum volta | age (240 V for models 200240 V, 480 V for | | |
| Sustainability policies | | | | |
| RoHS | : Yes | | | |
| Conformal Coating | : 3C2 (IEC 60721-3-3:2002) | | | |
| C C | | | | |
| Dimensions and weigth | . • | | | |
| - Size | : A : 189 mm / 7.4 in | | | |
| - Height | | | | |
| - Width | : 75 mm / 2.95 in | | | |
| - Depth | : 150 mm / 5.91 in | | | |
| - Weight | : 0,8 kg / 1.8 lb | | | |
| Mechanical Installation | | | | |
| Mounting position | : Surface or DIN rail | | | |
| Fixing screw | : M4 | | | |
| Tightening torque | : 2 N.m / 1.48 lb.ft | | | |
| Allows side-by-side assembly | : Yes, maximum ambient temperati | ure 40°C | | |
| Minimum spacing around the inverter: | | | | |
| - Тор | : 15 mm / 0.59 in | | | |
| - Bottom | : 40 mm / 1.57 in | | | |
| - Front | : 30 mm / 1.18 in | | | |
| - Between inverters (IP20) | : 10 mm / 0.39 in | | | |
| Electrical connections | | | | |
| Cable gauges and tightening torques: | | | | |
| | Recommended cable gauge | Recommended tightening torque | | |
| Power | 1,5 mm² (16 AWG) | 0,5 N.m / 0.37 lb.ft | | |
| Braking | Not applicable | 0,5 N.m / 0.37 lb.ft | | |
| Grounding | 2,5 mm ² (14 AWG) | 0.5 N.m / 0.37 lb.ft | | |
| Control | 0,5 to 1,5 mm ² (20 to 14 AWG) | 0,5 N.m / 0.37 lb.ft | | |
| SoftPLC | : Yes, incorporated | | | |
| Maximum breaking current | : Not available | | | |
| Minimum resistance for the brake resistor | : Not available | | | |
| Recommended aR fuse [6] | : FNH00-20K-A | | | |
| Recommended circuit breaker [6] | : MPW18i-3-D025 | | | |
| Disconnect switch | : Not applicable | : Not applicable | | |
| Motor coupling box | : Not applicable | | | |
| Standards | | | | |
| Safety | - UL 508C - Power conversion equ | inment | | |
| Salety | | ncluding clearances and creepage distances | | |
| | for electrical equipment. | notating ofertanees and ofeepage distances | | |
| | - EN 61800-5-1 - Safety requireme | onts electrical thermal and energy | | |
| | - EN 50178 - Electronic equipment | | | |
| | - EN 60204-1-Safety of machinery | Electrical equipment of machines. Part | | |
| | | have a machine in accordance with that | | |
| | · · | machine is responsible for the installation of | | |
| | an emergency-stop device and a n | • | | |
| | - EN 60146 (IEC 146) - Semicondu | | | |
| | | electrical power drive systems - Part 2: | | |
| | | ecifications for low voltage adjustable | | |
| | frequency AC power drive systems | | | |
| Electromagnetic Compatibility | | electrical power drive systems - Part 3: EMC | | |
| | product standard including specific | | | |
| | product standard including specific | | | |

Product standard including specific test methods.
 EN 55011 - Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment.

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The information contained are reference values. Subject to change without notice. Image merely illustrative.



| Standards | |
|-------------------------|--|
| | CISPR 11 - Industrial, scientific and medical (ISM) radio-frequency equipment Electromagnetic disturbance characteristics - Limits and methods of measurement. EN 61000-4-2 - Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test. EN 61000-4-3 - Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic field immunity test. EN 61000-4-4 - Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test. EN 61000-4-5 - Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 5: Surge immunity test. |
| | - EN 61000-4-6 - Electromagnetic compatibility (EMC)- Part 4: Testing and measurement techniques - Section 6: Immunity to conducted disturbances, induced by radio-frequency fields. |
| Mechanical Construction | - EN 60529, UL 50 and IEC 60721-3-3 |

Certifications

UL, CE, RCM, CS/IRAM, EAC, UKCA and RoHS CHINA

Notes

1) Motor power is orientative, valid for standard WEG Motors of IV poles. The correct sizing must be done according to the nominal current of the motor used, which must be less than or equal to the rated output current of the inverter;

2) Braking resistor is not included;

3) Considering minimum line impedance of 1%;

4) For more information, refer to the user manual of CFW500;

5) All images are merely illustrative.

6) For operation with switching frequency above nominal, apply derating to the output current (refer to the user manual).