

# CFW500 - Machinery Drive



## Variable Speed Drive

The CFW500 has advanced technology plug and play options, developed for fast commissioning, providing great flexibility and competitive advantage while offering excellent performance and reliability. Designed for exclusively industrial or professional use, is perfect for OEM, system integrators, panel installers and End Users providing great benefit from the added value.



### One VSD Endless Possibilities



**Motor Power Range**  
0.18 to 15 kW  
(1 to 20 HP)

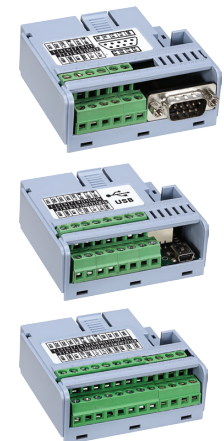
**Remote HMI**  
Simple and intuitive



**Flash Memory**  
Saving up to 2 different settings

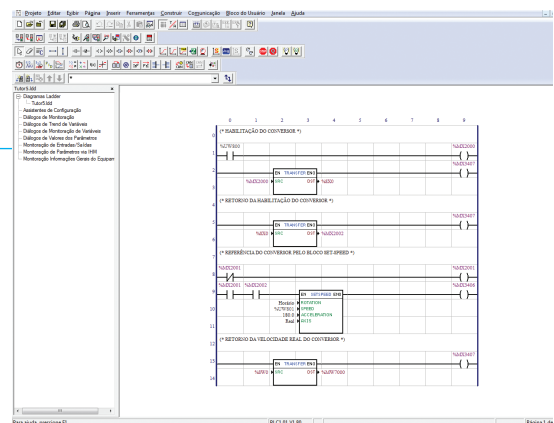


**Plug-In Module**  
I/Os expansion  
USB  
CANopen  
DeviceNet  
Profibus-DP  
RS485  
RS232



### Characteristics

- Robust**  
Overload current: 150% during 60 seconds  
Ambient temperature: up to 50 °C
- SoftPLC**  
PLC functions: making it a flexible and optimized solution
- Internal RFI Filter**  
RFI Filter complying with IEC 61800-3 Category C2 or C3 as optional
- PID Control**  
Performance: changes in pressure, flow or other external data
- Conformal Coating (Tropicalization) as Standard**  
Increasing the lifetime, protecting the electronic boards against corrosive atmospheres. Classified as 3C2 according to IEC 60721-3-3



Not necessary an external PLC.



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- Vector (V/W) and Scalar (V/Hz) control
- Free windows based software Superdrive G2. Designed for the programming, control and monitoring the CFW500
- Centrifugal pumps
- Compressors
- Process pumps
- Fans / Exhaust fans
- Mixers / Bottlers
- Washers / Driers
- Extruders
- Conveyor belts
- Elevators
- General machinery

### Technical Data and Types

| CFW500 - variable speed drive |         |                       |            |                    |              |  | Maximum motor power <sup>1)</sup> |               |         |     |
|-------------------------------|---------|-----------------------|------------|--------------------|--------------|--|-----------------------------------|---------------|---------|-----|
| Power supply (V)              |         | Model                 | Frame size | Output current (A) | Braking IGBT | Conducted emission level <sup>2)</sup> | IEC kW                            |               | NEMA HP |     |
| Single-phase                  | 230     | CFW500 A 01P6 S2 NB20 | A          | 1.6                | N/A          | Blank or C2                            | 50 Hz - 230 V                     | 60 Hz - 230 V | 0.25    | 1   |
|                               |         | CFW500 A 02P6 S2 NB20 |            | 2.6                |              |  |                                   |               | 0.55    | 1   |
|                               |         | CFW500 A 04P3 S2 NB20 |            | 4.3                |              | 1.1                                    |                                   |               | 1.5     |     |
|                               |         | CFW500 A 07P0 S2 NB20 |            | 7                  |              | 1.5                                    |                                   |               | 2       |     |
| Single-phase                  | 230     | CFW500 B 07P3 S2 DB20 | B          | 7.3                | Built-in     | C2                                     |                                   |               | 1.5     | 2   |
|                               |         | CFW500 B 10P0 S2 DB20 |            | 10                 |              |  |                                   |               | 2.2     | 3   |
| Single-phase or three-phase   | 230     | CFW500 A 01P6 B2 NB20 | A          | 1.6                | N/A          | Blank                                  |                                   |               | 0.25    | 1   |
|                               |         | CFW500 A 02P6 B2 NB20 |            | 2.6                |              |  |                                   |               | 0.55    | 1   |
|                               |         | CFW500 A 04P3 B2 NB20 |            | 4.3                |              |  |                                   |               | 1.1     | 1.5 |
|                               |         | CFW500 B 07P3 B2 DB20 |            | 7.3                |              |  |                                   |               | 1.5     | 2   |
| Three-phase                   | 230     | CFW500 B 10P0 B2 DB20 | B          | 10                 | Built-in     |  |                                   |               | 2.2     | 3   |
|                               |         | CFW500 A 07P0 T2 NB20 |            | A                  |              |  |                                   |               | 7       | N/A |
|                               |         | CFW500 A 09P6 T2 NB20 | 9.6        |                    | 2.2          |  | 3                                 |               |         |     |
|                               |         | CFW500 B 16P0 T2 DB20 | B          |                    | 16           |  | Built-in                          | 4             | 5       |     |
|                               |         | CFW500 C 24P0 T2 DB20 | C          |                    | 24           |  | Built-in                          | 5.5           | 7.5     |     |
|                               |         | CFW500 D 28P0 T2 DB20 | D          |                    | 28           |  | Built-in                          | 7.5           | 10      |     |
|                               |         | CFW500 D 33P0 T2 DB20 |            |                    | 33           |  |                                   | 9.2           | 10      |     |
|                               |         | CFW500 D 47P0 T2 DB20 |            |                    | 47           |  |                                   | 11            | 15      |     |
| CFW500 A 01P0 T4 NB20         | 1       | 0.25                  |            |                    | 1            |  |                                   |               |         |     |
| Three-phase                   | 380-480 | CFW500 A 01P6 T4 NB20 | A          | 1.6                | N/A          | Blank or C2                            | 0.75                              | 1             |         |     |
|                               |         | CFW500 A 02P6 T4 NB20 |            | 2.6                |              |  | 1.1                               | 2             |         |     |
|                               |         | CFW500 A 04P3 T4 NB20 |            | 4.3                |              |  | 1.5                               | 3             |         |     |
|                               |         | CFW500 A 06P1 T4 NB20 |            | 6.1                |              |  | 2.2                               | 3             |         |     |
|                               |         | CFW500 B 02P7 T4 DB20 | B          | 2.7                | Built-in     |  | 1.1                               | 2             |         |     |
|                               |         | CFW500 B 04P3 T4 DB20 |            | 4.3                |              |  | 1.5                               | 3             |         |     |
|                               |         | CFW500 B 06P5 T4 DB20 |            | 6.5                |              |  | 3                                 | 5             |         |     |
|                               |         | CFW500 B 10P0 T4 DB20 |            | 10                 |              |  | 4                                 | 7.5           |         |     |
|                               |         | CFW500 C 14P0 T4 DB20 | C          | 14                 | Built-in     | 5.5                                    | 7.5                               |               |         |     |
|                               |         | CFW500 C 16P0 T4 DB20 |            | 16                 |              | 7.5                                    | 10                                |               |         |     |
|                               |         | CFW500 D 24P0 T4 DB20 |            | D                  |              | 24                                     | Built-in                          | 11            | 15      |     |
|                               |         | CFW500 D 31P0 T4 DB20 |            |                    |              | 31                                     |                                   | 15            | 20      |     |

Notes: 1) Use motor power ratings below only as a guidance. Motors are rated for 400 V, 50 Hz, 4-pole. The right way to size a VFD is matching its output current with the rated motor current.

2) For more information, please check the manual.

### Configurations of Plug-in Modules <sup>1)</sup>

| Plug-In module | Functions |    |    |     |     |     |     |       |       |          |      |      |
|----------------|-----------|----|----|-----|-----|-----|-----|-------|-------|----------|------|------|
|                | DI        | AI | AO | DOR | DOT | USB | CAN | RS232 | RS485 | Profibus | 10 V | 24 V |
| CFW500-IOS     | 4         | 1  | 1  | 1   | 1   |     |     |       | 1     |          | 1    | 1    |
| CFW500-IOD     | 8         | 1  | 1  | 1   | 4   |     |     |       | 1     |          | 1    | 1    |
| CFW500-IOAD    | 6         | 3  | 2  | 1   | 3   |     |     |       | 1     |          | 1    | 1    |
| CFW500-IOR     | 4         | 1  | 1  | 4   | 1   |     |     |       | 1     |          | 1    | 1    |
| CFW500-CUSB    | 4         | 1  | 1  | 1   | 1   | 1   |     |       | 1     |          | 1    | 1    |
| CFW500-CCAN    | 2         | 1  | 1  | 1   | 1   |     | 1   |       | 1     |          | 1    | 1    |
| CFW500-CRS232  | 2         | 1  | 1  | 1   | 1   |     |     | 1     | 1     |          | 1    | 1    |
| CFW500-CRS485  | 4         | 2  | 1  | 2   | 1   |     |     |       | 2     |          | 1    | 1    |
| CFW500-CPDP    | 2         | 1  | 1  | 1   | 1   |     |     |       | 1     | 1        |      | 1    |

Note: 1) Possible to install one module at a time per CFW500.



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