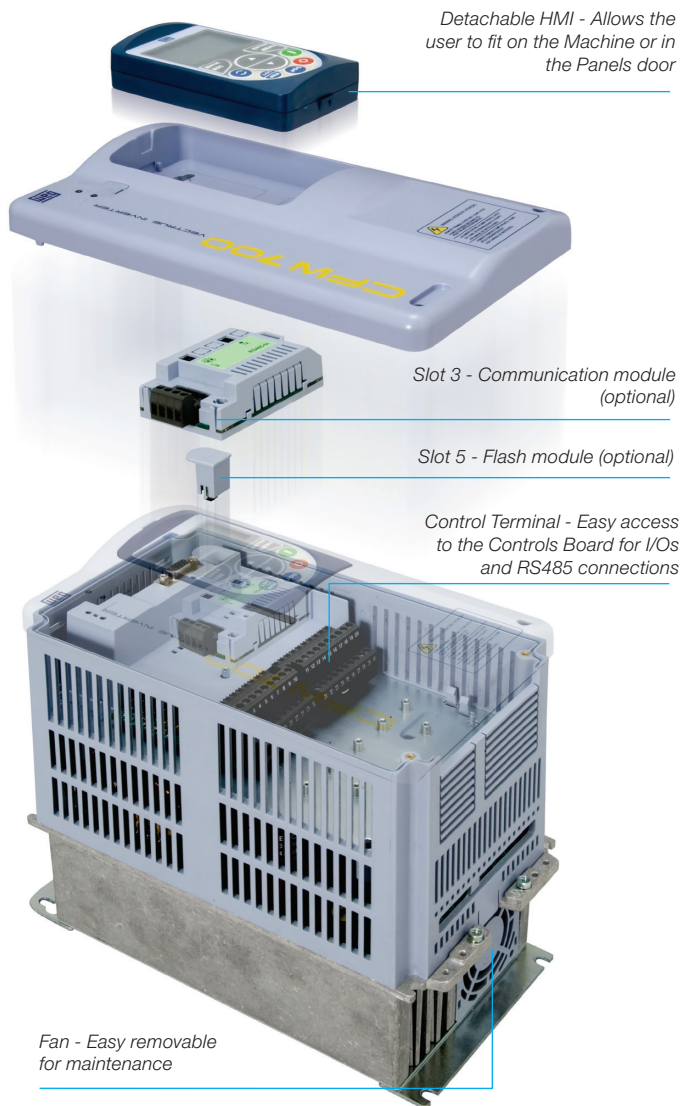


CFW700 - General Purpose Drive



Variable Speed Drive

Designed for controlling squirrel cage three-phase induction motors the new CFW700 is a general purpose drive that gives costumers the flexibility needed for the control of applications ranging from simple speed control to more demanding ones as torque control. Based on the plug and play technology concept where by plugging in expansion modules hardware and software recognize it automatically.



Special Features

Vectrue Technology® - WEG Variable Speed Drive Control Technology

- Linear and adjustable V/f, VVW (Voltage Vector WEG), Sensorless Vector and closed loop Vector (encoder interface factory built)
- Self-tuning function automatically matches VSD with motor

Optimal Flux® - WEG Technology for the Control of High Efficiency Induction Motors Applied to Constant Torque Load

- Rated torque at very low speed discarding the use for forced ventilation or even motor oversizing, thus costs are reduced
- Better performance results can be achieved with the set VSD + motor, as losses are decreased

Optimal Braking® - WEG Frequency Inverters Braking Technology

In applications where high inertia and short deceleration times are involved, a large amount of energy is returned from the motor to the VSD. As an alternative to the use of braking resistors (large, expensive and need a huge heat dissipation) has a special braking method.

Built-in DC Link Reactor

- Allows the VSD to be installed in any network
- It meets 61000-3-12 standard (limits for harmonic currents)
- No need for an extra line reactor

I/Os Capability

- 8 Digital Inputs / 5 Digital Outputs
- 2 Analog Inputs / 2 Analog Outputs

Communication Protocols

- Modbus-RTU (standard built-in), CANopen (plug-in module), DeviceNet (plug-in module) and Profibus (plug-in module)

Conformal Coating

Increasing the lifetime, protecting the electronic boards against corrosive atmospheres. Classified as 3C2 according to IEC 60721-3-3

Safety Stop - STO

- According to EN 61800-5-2, EN ISO 13849-1, IEC 62061, IEC 61508 Parts 1-7, EN 50178, IEC 60204-1, Cat. 3/pL d acc. and SIL CL2 acc
- When the safety circuit is tripped by external causes the IGBT firing circuit is deactivated



CFW700 - General Purpose Drive

Variable Speed Drive

Applications

- Pumps and Fans
- Compressors
- Paper and Cellulose / Wood
- Chemical and Petrochemical
- Ironworks and Metallurgy



Drive Ratings

| CFW500 - convertidor de frecuencia | | | | Maximum ND motor power ¹⁾ | | Maximum HD motor power ¹⁾ | | | |
|------------------------------------|------------------|-------------|--------------------|--------------------------------------|------------------|--------------------------------------|-----|------|-----|
| Power supply (V) | Model | Frame sizes | Normal duty (ND) | Heavy duty (HD) | IEC | NEMA | IEC | NEMA | |
| | | | A | A | kW | HP | kW | HP | |
| Single-phase | 200-240 | A | CFW700 A 06PO S2 | 6 | 5 | 1.1 | 1.5 | 1.1 | 1 |
| | | | CFW700 A 07PO S2 | 7 | 7 | 1.5 | 2 | 1.5 | 2 |
| | | | CFW700 A 10PO S2 | 10 | 10 | 2.2 | 3 | 2.2 | 3 |
| Single-phase or three-phase | 200-240 | A | CFW700 A 06PO B2 | 6 | 5 | 1.1 | 1.5 | 1.1 | 1 |
| | | | CFW700 A 07PO B2 | 7 | 7 | 1.5 | 2 | 1.5 | 2 |
| Three-phase | 200-240 | A | CFW700 A 07PO T2 | 7 | 5.5 | 1.5 | 2 | 1.1 | 1 |
| | | | CFW700 A 10PO T2 | 10 | 8 | 2.2 | 3 | 1.5 | 2 |
| | | | CFW700 A 13PO T2 | 13 | 11 | 3 | 3 | 2.2 | 3 |
| | | B | CFW700 A 16PO T2 | 16 | 13 | 4 | 5 | 3 | 3 |
| | | | CFW700 B 24PO T2 | 24 | 20 | 5.5 | 7.5 | 5.5 | 5 |
| | | | CFW700 B 28PO T2 | 28 | 24 | 7.5 | 10 | 7.5 | 7.5 |
| | | | CFW700 B 33PO T2 | 33.5 | 28 | 9.2 | 10 | 7.5 | 10 |
| | | C | CFW700 C 45PO T2 | 45 | 36 | 11 | 15 | 9.2 | 10 |
| | | | CFW700 C 54PO T2 | 54 | 45 | 15 | 20 | 11 | 15 |
| | | | CFW700 C 70PO T2 | 70 | 56 | 18.5 | 25 | 15 | 20 |
| | | D | CFW700 D 86PO T2 | 86 | 70 | 22 | 30 | 18.5 | 25 |
| | | | CFW700 D 0105PO T2 | 105 | 86 | 30 | 40 | 22 | 30 |
| | | E | CFW700 E 0142PO T2 | 142 | 115 | 37 | 50 | 30 | 40 |
| CFW700 E 0180PO T2 | 180 | | 142 | 55 | 60 | 37 | 50 | | |
| CFW700 E 0211PO T2 | 211 | | 180 | 55 | 75 | 55 | 60 | | |
| Three-phase | 380-480 | A | CFW700 A 03P6 T4 | 3.6 | 3.6 | 1.5 | 2 | 1.5 | 2 |
| | | | CFW700 A 05PO T4 | 5 | 5 | 2.2 | 3 | 2.2 | 3 |
| | | | CFW700 A 07PO T4 | 7 | 5.5 | 3 | 3 | 2.2 | 3 |
| | | | CFW700 A 10PO T4 | 10 | 10 | 4 | 5 | 4 | 5 |
| | | B | CFW700 A 13P5 T4 | 13.5 | 11 | 5.5 | 7.5 | 4 | 7.5 |
| | | | CFW700 B 17PO T4 | 17 | 13.5 | 7.5 | 10 | 5.5 | 7.5 |
| | | | CFW700 B 24PO T4 | 24 | 19 | 11 | 15 | 9.2 | 10 |
| | | | CFW700 B 31PO T4 | 31 | 25 | 15 | 20 | 11 | 15 |
| | | | CFW700 B 38PO T4 | 38 | 33 | 18.5 | 25 | 15 | 20 |
| | | C | CFW700 C45PO T4 | 45 | 38 | 22 | 30 | 18.5 | 25 |
| | | | CFW700 C58P5 T4 | 58.5 | 47 | 30 | 40 | 22 | 30 |
| | | | CFW700 D 70P5 T4 | 70.5 | 61 | 37 | 50 | 30 | 40 |
| | | D | CFW700 D 88PO T4 | 88 | 73 | 45 | 60 | 37 | 50 |
| | | | CFW700 E 0105 T4 | 105 | 88 | 55 | 75 | 45 | 60 |
| | | E | CFW700 E 0142 T4 | 142 | 115 | 75 | 100 | 55 | 75 |
| | | | CFW700 E 0180 T4 | 180 | 142 | 90 | 150 | 75 | 100 |
| | | | CFW700 E 0211 T4 | 211 | 180 | 110 | 150 | 90 | 150 |
| | | | CFW700 B 02P9 T5 | 2.9 | 2.7 | 1.5 | 2 | 1.5 | 2 |
| | | Three-phase | 500-600 | B | CFW700 B 04P2 T5 | 4.2 | 3.8 | 2.2 | 3 |
| CFW700 B 07PO T5 | 7 | | | | 6.5 | 4 | 5 | 4 | 5 |
| CFW700 B 10PO T5 | 10 | | | | 9 | 5.5 | 7.5 | 5.5 | 7.5 |
| D | CFW700 B 12PO T5 | | | 12 | 10 | 7.5 | 10 | 5.5 | 7.5 |
| | CFW700 B 17PO T5 | | | 17 | 17 | 11 | 15 | 11 | 15 |
| | CFW700 D 22PO T5 | | | 22 | 19 | 15 | 20 | 11 | 15 |
| | CFW700 D 27PO T5 | | | 27 | 22 | 18.5 | 25 | 15 | 20 |
| E | CFW700 D 32PO T5 | | | 32 | 27 | 22 | 30 | 18.5 | 25 |
| | CFW700 D 44PO T5 | | | 44 | 36 | 30 | 40 | 22 | 30 |
| | CFW700 E 53PO T5 | | | 53 | 44 | 37 | 50 | 30 | 40 |
| | CFW700 E 63PO T5 | | | 63 | 53 | 45 | 60 | 37 | 50 |
| | CFW700 E 80PO T5 | | | 80 | 66 | 55 | 75 | 45 | 60 |
| | CFW700 E 0107 T5 | | | 107 | 90 | 75 | 100 | 55 | 75 |
| E | CFW700 E 0125 T5 | | | 125 | 107 | 90 | 125 | 75 | 100 |
| | CFW700 E 0150 T5 | | | 150 | 122 | 110 | 150 | 90 | 100 |

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



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