

CFW100 - Mini Drive



Variable Speed Drive

Technology is at your fingertips with the incredible smallest volume VSD in the market. The CFW100 is a single-phase variable speed drive developed for simple applications ranging from 0.18 - 1.5 kW / 0.25 - 2 HP. A strong partner for OEMs, it gives induction motors a selectable scalar (V/F) or voltage vector control (VVW), HMI and Plug & Play philosophy, with easy and fast installation and operation.

The smallest VSD for 50 °C

Many applications...

at your fingertips!



Motor Power Range
0.18 - 1.5 kW / 0.25 - 2 HP

Characteristics

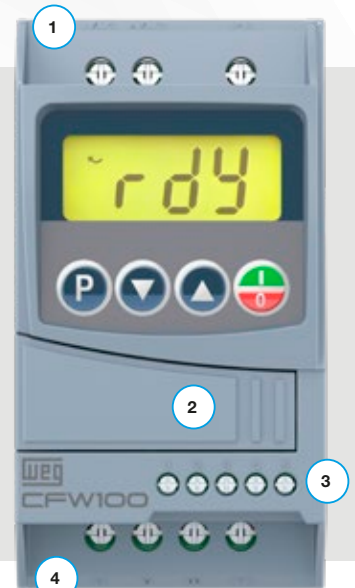
- **Robust**
Overload current: 150% for 60 seconds
Ambient temperature: up to 50 °C
- **SoftPLC**
PLC functions: making it a flexible and optimized solution
- **PID Controller**
Performance: changes in pressure, flow or other external data
- **Communication Protocol**
Modbus-RTU and CANopen by plug-in modules
- **Conformal Coating (Tropicalization) as Standard**
Increasing the lifetime, protecting the electronic boards against corrosive atmospheres. Classified as 3C2 according to IEC 60721-3-3

Easy Installation

- Ideal to replace contactors or similar products.
- The standard CFW100 (without accessory) has 4 DIs ready to run.

- 1 - Power supply terminals
- 2 - Slot for plug-in modules¹⁾
- 3 - Digital inputs
- 4 - Motor terminals

Note: 1) Internal USB connector for plug-in modules only. Do not connect the cables directly.



Certifications



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Variable Speed Drive



- Vector (V/W) and scalar (V/Hz) control
- Free Windows® based software Superdrive G2. Designed for parameter setting, controlling and monitoring the CFW100

- Centrifugal pumps
- Fans / Exhausters
- Process dosing pumps
- Lift doors
- Dryers
- Stirrers / Mixer
- Granulators / Palletize
- Rotary filters
- Roller tables
- Small handling applications

Drive Ratings

Reference	Power supply (V)		Frame size	Rated output current (A)	Maximum applicable motor ¹⁾				
					IEC			UL	
					Power supply (V) 60 Hz	cv	kW	Power supply (V) 60 Hz	HP
CFW100A01P6S120G2	100-127 V ca	Monofásica	A	1.6	220	0.25	0.18	230	0.33
CFW100B02P6S120G2			B	2.6		0.5	0.37		0.75
CFW100D04P2S120G2			D	4.2		1.0	0.75		1.0
CFW100D06P0S120G2				6.0		1.5	1.32		1.5
CFW100A01P6S220G2	200-240 V ca	Monofásica	A	1.6		0.25	0.18		0.33
CFW100B02P6S220G2			B	2.6		0.5	0.37		0.75
CFW100C04P2S220G2			C	4.2		1.0	0.75		1.0
CFW100D06P0S220G2				D		6.0	1.5		1.32
CFW100D07P3S220G2			7.3		2.0	1.5	2.0		

Note: 1) The motor powers are reference values, valid for WEG IEC or NEMA three-phase induction motors. The motor powers for IEC standard are based on WEG W22 IE2 High-Efficiency 4-pole motors, while the motor powers for UL standard are based on WEG W22 NEMA Premium 4-pole motors with 220 V or 230 V. The proper size must be always determined according to the rated current of the motor used, which must be lower than or equal to the inverter rated output current.

Plug-in Modules Specification

Reference	Function								
	Inputs		Output		USB	Potentiometer	Infrared	Network communication	
	Analog	Digital ¹⁾	Analog	Digital relay				RS485	CANopen/ DeviceNet
CFW100-CRS485	-	-	-	-	-	-	-	1	-
CFW100-CCAN	-	-	-	-	-	-	-	-	1
CFW100-IOP	-	-	-	-	-	1	-	-	-
CFW100-CUSB	-	-	-	-	1	-	-	-	-
CFW100-IOA	1	-	1	-	-	-	-	-	-
CFW100-IOADR	1	-	-	3	-	-	1	-	-
CFW100-IOAR	1	-	-	1	-	-	-	-	-
CFW100-IOD ²⁾	-	4	-	-	-	-	-	-	-

Notes: 1) The standard version of the CFW100 comes with 4 isolated NPN or PNP (configurable) digital inputs.

2) The digital inputs of the CFW100-IOD module are configurable (NPN or PNP) isolated digital inputs.

Remote operating interface (IHM)
CFW100-KHMIR



Flash memory
CFW100-MMF



Plug-in modules
(check above table)



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