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CFW300

Mini Variable Speed Drive



Reduced size, easy to use, ideal for applications in machines and in industrial processes in general.

Characteristics

- Rated output current of 1.6 to 15.2 A (0.25 HP / 0.18 kW to 5 HP / 3.7 kW), single-phase power supply 100-127 V ac, 200-240 V ac single or three-phase, or 280-340 V dc
- 4 configurable (PNP or NPN) digital inputs, 1 relay output 0.5 A / 250 V ac, 1 analog input 0-10 V dc / 4-20 mA
- Control modes: V/f, quadratic V/f or VVW vector control
- 2 slots for function expansion, such as communication or number of I/Os
- Conformal coating: coating class 3C2 (IEC 60721-3-3) on the internal circuits for greater protection in harsh environments
- Built-in SoftPLC function - the functionalities of a PLC added to the CFW300
- Free WPS programming and monitoring software
- Degree of protection IP20
- Footprint EMC filter (accessory)
- Protection, alarm and diagnosis functions

- Operating interface (HMI) with built-in LED display
- "S" linear ramp, slip compensation, electronic potentiometer, PID, multispeed with up to eight programmable speeds, JOG, DC braking
- IGBT module (dynamic braking) included in frame B
- Smart thermal management of the fan

Certifications



Note: designed for exclusive industrial or professional use.

Specification

Standard Version

Reference	Power supply (V)		Frame size	Rated output current (A)	Maximum applicable motor ¹⁾														
					IEC				UL										
					Power supply (V) 50 Hz	kW	Power supply (V) 60 Hz	HP	Power supply (V) 60 Hz	HP									
CFW300A01P6S1NB20	Single-phase	110-127 V ac	A	1.6	230	0.25	220	0.33	230	0.33									
CFW300A02P6S1NB20				2.6							0.55	0.75	0.5						
CFW300A04P2S1NB20				4.2							1.1	1.5	1.0						
CFW300A06P0S1NB20				6.0							1.5	2.0	1.5						
CFW300A01P6S2NB20	Single-phase	200-240 V ac	A	1.6	230	0.25	220	0.33	230	0.33									
CFW300A02P6S2NB20				2.6							0.55	0.75	0.5						
CFW300A04P2S2NB20				4.2							1.1	1.5	1.0						
CFW300A06P0S2NB20				6.0							1.5	2.0	1.5						
CFW300A07P3S2NB20			7.3	1.5							2.0	2.0							
CFW300B10P0B2DB20			B	10.0							2.2	3.0	3.0						
CFW300A01P6T2NB20				Three-phase							200-240 V ac	A	1.6	230	0.25	220	0.33	230	0.33
CFW300A02P6T2NB20													2.6						
CFW300A04P2T2NB20	4.2	1.1			1.5	1.0													
CFW300A06P0T2NB20	6.0	1.5	2.0		1.5														
CFW300A07P3T2NB20	7.3	1.5	2.0		2.0														
CFW300B10P0B2DB20	B	10.0	2.2		3.0	3.0													
CFW300B15P2T2DB20		15.2	4.0		5.0	5.0													
CFW300A01P6D3NB20		DC link	280-380 V dc		A	1.6	230	0.25	220	0.33		230	0.33						
CFW300A02P6D3NB20				2.6		0.55					0.75			0.5					
CFW300A04P2D3NB20	4.2			1.1		1.5					1.0								
CFW300A06P0D3NB20	6.0			1.5		2.0					1.5								
CFW300A07P3D3NB20	7.3			1.5	2.0	2.0													
CFW300B10P0B2DB20	B			10.0	2.2	3.0					3.0								
CFW300B15P2T2DB20				15.2	4.0	5.0					5.0								

Notes: 1) The power values for maximum applicable motor shown in the table above are reference values and valid for WEG motors, IEC motor powers are based on motor WEG four-pole W22 High Efficiency IE2, three-phase induction motors with power supply of 220 V or 230 V. UL motor power are based on WEG four pole W22 Premium.

The proper sizing must be always determined according to the rated current of the motor, which must be lower than or equal to the inverter rated output current. For further information, please refer to the catalog available on our website www.weg.net.

Plug-In Modules⁶⁾

Reference	Slots ⁵⁾	Inputs		Outputs		USB ⁴⁾	Infrared and NTC sensors ³⁾	Input for encoder ²⁾	Fieldbus communication			
		Analog	Digital	Analog	Relay digital				RS485	RS232	CANopen	Profibus-DP
CFW300-CRS485	Upper slot	-	-	-	-	-	-	-	1	-	-	-
CFW300-CRS232		-	-	-	-	-	-	-	-	1	-	-
CFW300-CCAN		-	-	-	-	-	-	-	-	-	1	-
CFW300-CPDP		-	-	-	-	-	-	-	-	-	-	1
CFW300-CUSB		-	-	-	-	-	1	-	-	-	-	-
CFW300-IOAR	Lower slot	1	-	1	3	-	-	-	-	-	-	
CFW300-IODR ¹⁾		-	4	-	3	-	-	-	-	-	-	
CFW300-IOAENC		1	-	2	-	-	-	1	-	-	-	
CFW300-IOADR		1	-	-	3	-	1	-	-	-	-	

Notes: 1) Configurable (NPN or PNP) isolated digital inputs;

2) Incremental encoder (A/A - B/B), power supply of +5 V @ 100 mA for the encoder, maximum frequency of 400 kHz;

3) Remote control and battery included;

4) USB cable included;

5) 1 plug-in module in the upper slot (network communication or accessibility) and 1 plug-in module in the lower slot (input/output expansion) allowed;

6) The standard version of the CFW300 already has 4 (configurable) PNP or NPN digital inputs, 1 analog input 0-10 V dc / 4-20 mA and 1 relay output 0.5 A / 250 V ac.

Dimensions

Dimensions without Filter

Frame	H	W	D	Weight
	mm (in)	mm (in)	mm (in)	kg (lb)
A	157.9 (6.22)	70.0 (2.76)	148.4 (5.84)	0.90 (1.98)
B	198.9 (8.08)	70.0 (2.76)	158.4 (6.24)	1.34 (2.95)

Dimensions with Filter

Frame	H	W	D	Weight
	mm (in)	mm (in)	mm (in)	kg (lb)
A	196.0 (7.72)	70.0 (2.76)	190.0 (7.48)	1.30 (2.86)
B	237.0 (9.93)	70.0 (2.76)	200.1 (7.88)	1.80 (3.96)

