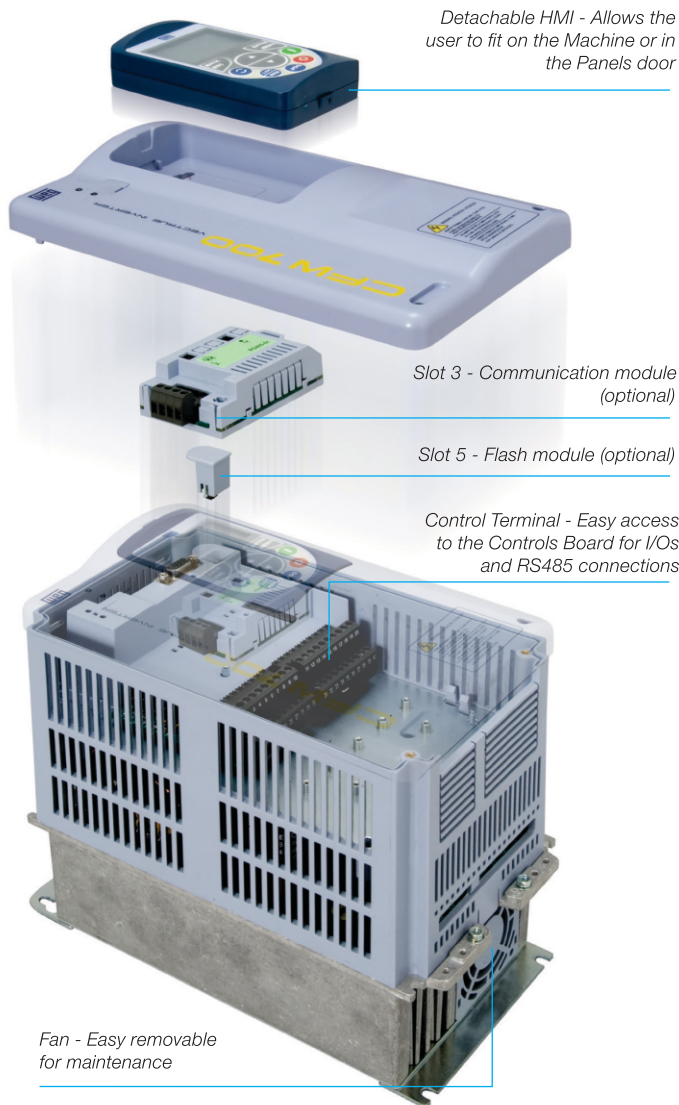


CFW700 - General Purpose Drive



Variable Speed Drive

Designed for controlling squirrel cage three-phase induction motors the new CFW700 is a general purpose drive that gives customers 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.



Detachable HMI - Allows the user to fit on the Machine or in the Panels door

Slot 3 - Communication module (optional)

Slot 5 - Flash module (optional)

Control Terminal - Easy access to the Controls Board for I/Os and RS485 connections

Fan - Easy removable for maintenance

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



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																																				
Single-phase	200-240	CFW700 A 06P0 S2	A	6	5	50 Hz - 220 V / 230 V	1.1	60 Hz - 230 V	1.5	50 Hz - 220 V / 230 V	1.1	60 Hz - 230 V	1																												
		CFW700 A 07P0 S2		7	7									1.5	2	1.5	2																								
		CFW700 A 10P0 S2		10	10									2.2	3	2.2	3																								
Single-phase or three-phase	200-240	CFW700 A 06P0 B2	A	6	5	50 Hz - 220 V / 230 V	1.1	60 Hz - 230 V	1.5	50 Hz - 220 V / 230 V	1.1	60 Hz - 230 V	1																												
		CFW700 A 07P0 B2		7	7									1.5	2	1.5	2																								
Three-phase	200-240	CFW700 A 07P0 T2	A	7	5.5	50 Hz - 220 V / 230 V	1.5	60 Hz - 230 V	2	50 Hz - 220 V / 230 V	1.1	60 Hz - 230 V	1																												
		CFW700 A 10P0 T2		10	8									2.2	3	1.5	2																								
		CFW700 A 13P0 T2		13	11									3	3	2.2	3																								
		CFW700 A 16P0 T2		16	13									4	5	3	3																								
		CFW700 B 24P0 T2	B	24	20									50 Hz - 220 V / 230 V	5.5	60 Hz - 230 V	7.5	50 Hz - 220 V / 230 V	5.5	60 Hz - 230 V	5																				
		CFW700 B 28P0 T2		28	24																	7.5	10	5.5	7.5																
		CFW700 B 33P0 T2		33.5	28																	9.2	10	7.5	10																
		CFW700 C 45P0 T2		45	36																	11	15	9.2	10																
		CFW700 C 54P0 T2	C	54	45																	50 Hz - 220 V / 230 V	15	60 Hz - 230 V	20	50 Hz - 220 V / 230 V	11	60 Hz - 230 V	15												
		CFW700 C 70P0 T2		70	56																									18.5	25	15	20								
		CFW700 D 86P0 T2		86	70																									22	30	18.5	25								
		CFW700 D 0105P0 T2		105	86																									30	40	22	30								
		Three-phase	380-480	CFW700 E 0142P0 T2	E																									142	115	50 Hz - 220 V / 230 V	37	60 Hz - 230 V	50	50 Hz - 220 V / 230 V	30	60 Hz - 230 V	40		
				CFW700 E 0180P0 T2																										180	142									55	60
CFW700 E 0211P0 T2	211			180		55	75	55	60																																
Three-phase	380-480	CFW700 A 03P6 T4	A	3.6	3.6	50 Hz - 380 V / 415 V	1.5	60 Hz - 460 V	2	50 Hz - 380 V / 415 V	1.5	60 Hz - 460 V	2																												
		CFW700 A 05P0 T4		5	5																									2.2	3	2.2	3								
		CFW700 A 07P0 T4		7	5.5																									3	3	2.2	3								
		CFW700 A 10P0 T4		10	10									4	5	4	5																								
		CFW700 A 13P5 T4	B	13.5	11									50 Hz - 380 V / 415 V	5.5	60 Hz - 460 V	7.5	50 Hz - 380 V / 415 V	5.5	60 Hz - 460 V	7.5																				
		CFW700 B 17P0 T4		17	13.5																									7.5	10	5.5	7.5								
		CFW700 B 24P0 T4		24	19																									11	15	9.2	10								
		CFW700 B 31P0 T4		31	25																	15	20	11	15																
		CFW700 C 38P0 T4	C	38	33																	50 Hz - 380 V / 415 V	18.5	60 Hz - 460 V	25	50 Hz - 380 V / 415 V	15	60 Hz - 460 V	20												
		CFW700 C 45P0 T4		45	38																									22	30	18.5	25								
		CFW700 C 58P5 T4		58.5	47																									30	40	22	30								
		CFW700 D 70P5 T4		70.5	61																									37	50	30	40								
		CFW700 D 88P0 T4	D	88	73																									50 Hz - 380 V / 415 V	45	60 Hz - 460 V	60	50 Hz - 380 V / 415 V	37	60 Hz - 460 V	50				
		CFW700 E 0105 T4		105	88																																	55	75	45	60
		CFW700 E 0142 T4		142	115																																	75	100	55	75
		CFW700 E 0180 T4		180	142																																	90	150	75	100
		CFW700 E 0211 T4	E	211	180																																	50 Hz - 380 V / 415 V	110	60 Hz - 460 V	150
CFW700 B 02P9 T5	2.9	2.7		1.5	2	1.5	2																																		
CFW700 B 04P2 T5	4.2	3.8		2.2	3	2.2	2																																		
CFW700 B 07P0 T5	7	6.5		4	5	4	5																																		
Three-phase	500-600	CFW700 B 10P0 T5	B	10	9	50 Hz - 525 V / 575 V	5.5	60 Hz - 575 V	7.5	50 Hz - 525 V / 575 V	5.5	60 Hz - 575 V	7.5																												
		CFW700 B 12P0 T5		12	10									7.5	10	5.5	7.5																								
		CFW700 B 17P0 T5		17	17									11	15	11	15																								
		CFW700 D 22P0 T5		22	19									15	20	11	15																								
		CFW700 D 27P0 T5	D	27	22									50 Hz - 525 V / 575 V	18.5	60 Hz - 575 V	25	50 Hz - 525 V / 575 V	15	60 Hz - 575 V	20																				
		CFW700 D 32P0 T5		32	27																	22	30	18.5	25																
		CFW700 D 44P0 T5		44	36																	30	40	22	30																
		CFW700 E 53P0 T5		53	44																	37	50	30	40																
		CFW700 E 63P0 T5	E	63	53																	50 Hz - 525 V / 575 V	45	60 Hz - 575 V	60	50 Hz - 525 V / 575 V	37	60 Hz - 575 V	50												
		CFW700 E 80P0 T5		80	66																									55	75	45	60								
		CFW700 E 0107 T5		107	90																									75	100	55	75								
		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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