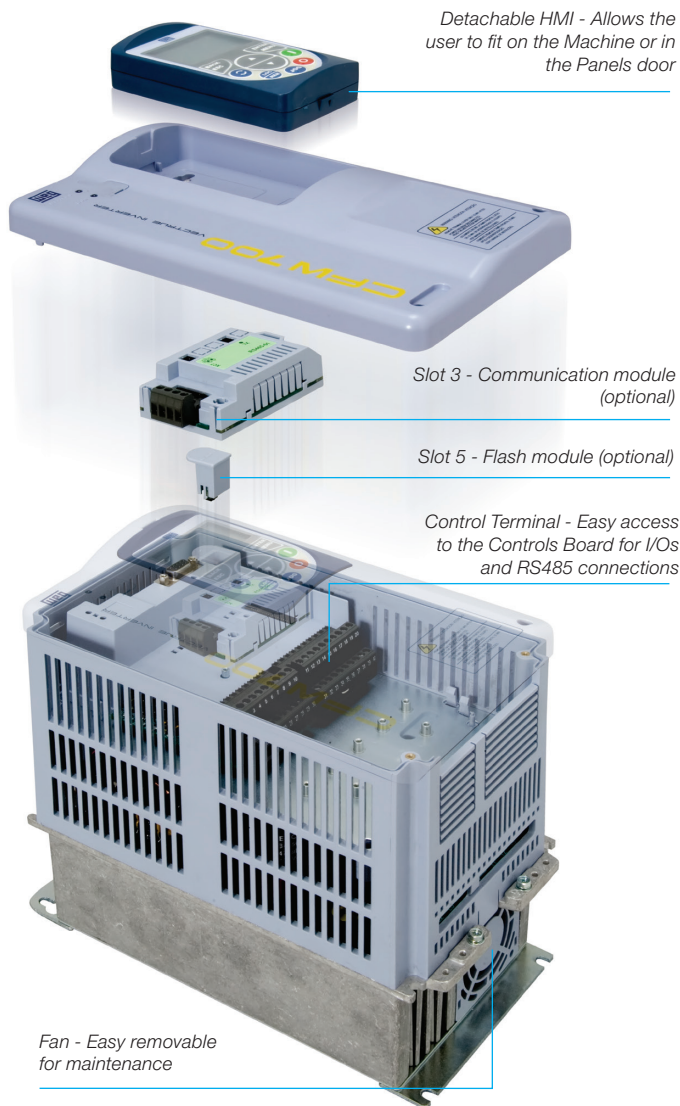


CFW700 - General Purpose Drive



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		
			CFW700 E 0142PO T2	142	115	37	50	30	40		
Three-phase	380-480	E	CFW700 E 0180PO T2	180	142	55	60	37	50		
			CFW700 E 0211PO T2	211	180	55	75	55	60		
			CFW700 A 03P6 T4	3.6	3.6	1.5	2	1.5	2		
Three-phase	380-480	A	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		
			CFW700 A 13P5 T4	13.5	11	5.5	7.5	4	7.5		
		B	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 C 38PO T4	38	33	18.5	25	15	20		
		C	CFW700 C 45PO 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		
		D	CFW700 D 88PO T4	88	73	45	60	37	50		
			CFW700 E 0105 T4	105	88	55	75	45	60		
			CFW700 E 0142 T4	142	115	75	100	55	75		
		E	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		
			CFW700 B 04P2 T5	4.2	3.8	2.2	3	2.2	2		
		Three-phase	500-600	B	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
CFW700 B 12PO T5	12				10	7.5	10	5.5	7.5		
D	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		
	CFW700 D 32PO T5			32	27	22	30	18.5	25		
E	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		
	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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