

TECO

FWF100



- ▲ Compact 1/2 to 10HP AC Inverter
- ▲ Low Cost
- ▲ Keypad Mounted Potentiometer
- ▲ Maximum Output Frequency Up To 400Hz
- ▲ NEMA 4 Option for Harsh Environments
- ▲ UL/cUL/CE Approved



TECO FM100



PRODUCT SPECIFICATION

Model #FM100-XXX-N1		230 Volts							460 Volts					
		2P5	201	202	203	205	207	210	401	402	403	405	407	410
Basic Characteristics	Applicable Motor Output (HP)	0.5	1	2	3	5	7.5	10	1	2	3	5	7.5	10
	Rated Output Current (A)	3.1	4.5	7.5	10.5	17.5	26	35	2.3	3.8	5.2	8.8	13	17.5
	Rated Capacity (KVA)	1.2	1.7	2.9	4	6.7	9.9	13.3	1.7	2.9	4	6.7	9.9	13.3
	Output Voltage Max.	Three Phase 200~230V (Proportional to Input Voltage)							Three Phase 380~460V (Proportional to Input Voltage)					
	Rated Input Voltage and Frequency	Three Phase 200~230V, 50 / 60Hz							Three Phase 380~460V, 50 / 60Hz					
	Allowable Voltage Fluctuation	(+10%, -10%)							(+10%, -10%)					
	Allowable Frequency Fluctuation	(+5%, -5%)							(+5%, -5%)					
Control Characteristics	Frequency Control Range	0.1-400Hz												
	Frequency Accuracy	Digital Command: 0.01%, +14°F~104°F(-10°C~40°C) Analog Command: 0.4%, +14°F~77°F(-10°C~25°C)												
	Frequency Resolution	Digital Keypad Reference: 0.01Hz (0-99.9Hz); .1Hz(100-400Hz)												
	Frequency Setting Signal	0-5VDC, 0-10VDC, 0-20mA												
	Accel / Decel Time	0.1-3600 Seconds (Two Independent Accel / Decel or S-Curve Settings)												
	Braking Torque	Approximately 20% (Braking Transistor Unit is built-in to 10HP units and below)												
	V/F Pattern	18 Pre-Programmed Patterns (One Custom Pattern)												
Protective Functions	Instantaneous Overcurrent	Approximately 200% of Rated Current							Approximately 200% of Rated Current					
	Overload Protection	150% Rated Output Current for 60 Seconds							150% Rated Output Current for 60 Seconds					
	Motor Overload	Electronic Thermal Overload Relay							Electronic Thermal Overload Relay					
	Overvoltage	230V Series: DC Bus Voltage exceeds 427V							460V Series: DC Bus Voltage exceeds 854V					
	Undervoltage	230V Series: DC Bus Voltage drops below 200V							460V Series: DC Bus Voltage drops below 400V					
	Momentary Power Loss	0-2 Seconds: FM100 can be restarted with Speed Search							0-2 Seconds: FM100 can be restarted with Speed Search					
	Heatsink Overheat	Protected by Thermostat							Protected by Thermostat					
Operation Conditions	Input Signals	Operation Signal					Forward / Reverse Operation, Individual Command							
		Reset					Released Protection while the Protect Function is Operating							
	Output Signals	Programmable Multi-Functional Inputs					3 Programmable Inputs with the following signals available to select: Multi-Speed Commands (3) / Jog Operation / External Emergency Stop / External Coast Stop / Speed Search							
		Programmable Multi-Functional Output					1 Programmable Output with the following signals available to select: Run / At Speed / Set Frequency / Frequency Detection / Overcurrent Detection / Change from NO to NC Contact							
		Fault Contact					250VAC 1A, 30VDC 1A or less							
		Digital Keypad Monitor					4 Digit 7 Segment LED Display Indicates: Frequency / Output Frequency / Speed / Output Current / Output Voltage / DC Bus Voltage / Rotation Direction							
		Analog Output Monitor					0-10VDC Analog Output, Possible to select: Output Frequency / Setting Frequency / Output Voltage / DC Bus Voltage							
Built-in Function					Frequency Reference Bias / Gain, Upper and Lower Limit / Manual Torque Boost / Frequency Meter Gain / Auto Restart / Skip Frequency / S-Curve									
Environmental Conditions	Location	Indoor (Protected from Corrosive Gases and Dust)												
	Ambient Temperature	+14°F~104°F(-10°C~40°C)												
	Humidity	0~95% RH (Non-Condensing)												
	Vibration	0.5G (4.9 m/s ²)												
Enclosure Type	NEMA 1 (Standard), NEMA 4 (Option)													
UL Standard	UL508C													
EMC Standard	EN50081-1, EN50082-2 (with Optional Filter)													

TECO  **Westinghouse**

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