

FM50
FLUXMASTER

TECO



Micro AC Inverter

Low Cost

Space Saving Design

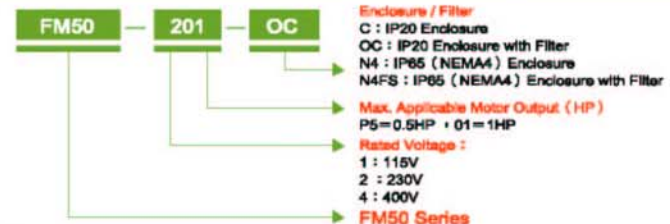
UL / cUL / CE Approved

EMI Filter Built-in (Option)

PRODUCT SPECIFICATION

		115V		230V			400V				
Model # FM50-□□□-□□□□		1P2	1P5	2P2	2P5	201	202	203	401	402	403
Output Characteristics	Max. Applicable Motor Output HP (KW)	0.25 (0.2)	0.5 (0.4)	0.25 (0.2)	0.5 (0.4)	1 (0.75)	2 (1.5)	3 (2.2)	1 (0.75)	2 (1.5)	3 (2.2)
	Inverter Capacity (KVA)	0.53	0.88	0.53	0.88	1.6	2.9	4	1.7	2.9	4
	Rated Output Current (A)	1.4	2.3	1.4	2.3	4.2	7.5	10.5	2.3	3.8	5.2
	Max. Output Voltage	3-Phase, 200-240V						3-Phase, 380-460V			
	Rated Output Frequency	Up To 120Hz Available									
Power Supply	Rated Input Voltage and Frequency	1-Phase 100-120V, 50/60Hz		1-Phase 200-240V, 50/60Hz			1/3-Phase 200-240V, 50/60Hz		3-Phase 380-460V, 50/60Hz		
	Voltage Fluctuation	+10%~-15%									
	Frequency Fluctuation	±5%									
Control Characteristics	Digital Operator	Setup by ▲▼ Buttons									
	Input Signal Type	PNP Type (Source) Input (External 24VDC Input is Allowed)									
	Carrier Frequency	Adjustable									
	Frequency Control Range	1-120Hz (Sine Wave PWM)									
	Frequency Setting Resolution	Digital Operator Reference: 0.1Hz (1-99.9Hz); 1Hz (100-120Hz) Analog Reference: 1Hz/60Hz									
	Frequency Setting Signal	0-10VDC, 4-20mA, 0-20mA									
	Accel / Decel Time	0.1-999 Seconds									
	Braking Torque	Approximately 20% (No additional braking allowed)									
Protective Functions	Number of V / F Patterns	6 Preset V / F Patterns									
	Instantaneous Overcurrent	Approximately 200% of Rated Output Current (based on standard 4 pole motor)									
	Overload Capacity	150% Rated Output Current for One Minute									
	Overvoltage (460V Series)	When Inverter output voltage exceeds 800VDC									
	Overvoltage (115 and 230V Series)	When Inverter Output Voltage Exceeds 410VDC									
	Undervoltage (460V Series)	When Inverter Output Voltage Drops to 400VDC or Below									
	Undervoltage (115 and 230V Series)	When Inverter Output Voltage Drops to 200VDC or Below									
	Momentary Power Loss	0-2 Seconds (Inverter can be Restarted with Speed Search)									
	Fin Overheat	Thermostat									
	Stall Prevention	Stall Prevention at Acceleration / Deceleration and Constant Speed Operation									
Environmental Conditions	Ground Fault	Provided by Electronic Circuit									
	Short Circuit	Provided by Electronic Circuit									
	Enclosure	IP20 / IP65 (NEMA 4)									
UL	Ambient Temperature	-10 to 50°C									
	Humidity	0-95% RH (Non-Condensing)									
	Vibration	Under 1G (9.8m / s ²)									
CE	UL508C										
Installation	EN50081-1, EN50082-2, EN50178										
		Mounting Screw or DIN rail (option)									

Model Designation :



TECO TECO ELECTRIC & MACHINERY CO., LTD.

49, WU KUNG 6 RD., WU KU INDUSTRIAL DISTRICT, TAIPEI HSIANG, TAIWAN
TEL: 886-2-89901111 FAX: 886-2-77900445 <http://www.teco.com.tw>



FM50 NEMA 4X WASHDOWN DRIVES

FEATURES

- NEMA 4X
- Keypad Only
- Keypad with Operator Devices
- Constant Torque
- 0-200Hz Output Frequency
- Control Mode: V/Hz
- Fault History
- Programmable Digital Inputs
- Programmable Digital Output
- Analog Output 0-10VDC
- Analog Input 0-10VDC, 0-20mA, 4-20mA
- Local/Remote Control
- 3 Preset Speeds
- Torque Boost Function
- Carrier Frequency 16KHz
- DC Injection Braking
- UL, cUL, CE Approved



NEMA 4X FROM .25 - 3HP

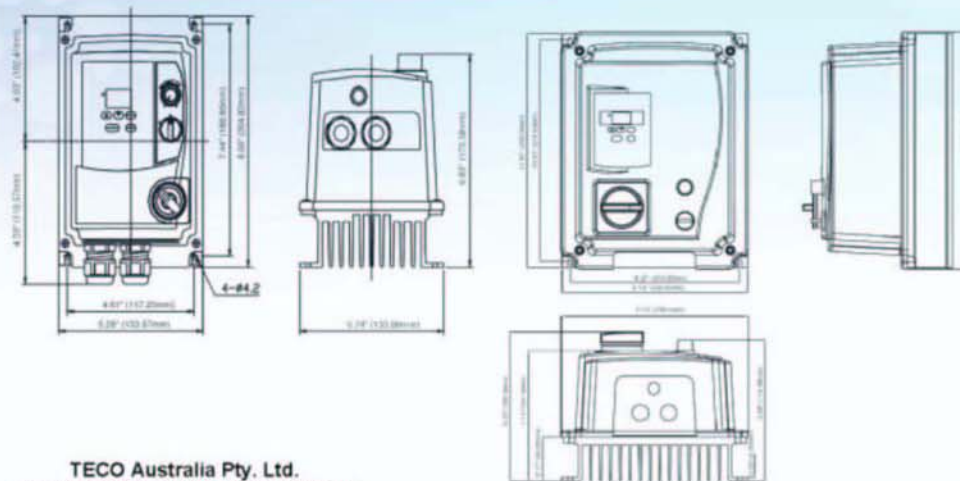
FM50 PRODUCT DETAILS

SPECIFICATIONS

Control Method	V/Hz
Input Voltage Rating	230 VAC 1-Phase; 440 VAC 3-Phase
Input Voltage Fluctuation	+10%, -15%
Frequency Control Range	0 to 200Hz
Frequency Accuracy	Digital: ±1Hz, Analog: 1Hz / 50Hz
Speed Commands	0-10VDC, 4-20mA, 0-20mA
Overload Capacity	150% for 1 Minute
Braking	Ramp to Stop / DC Injection / Coast to Stop / DB Braking on Selected Units
Protective Functions	Motor Overload, Peak Overcurrent, Inverter Overload, Ground Fault, Over Temperature, Stall (Trip) Prevention
Programmable I/O	1 Digital Input, 1 NO Contact Output
Ambient Temperature	-10°C to +50°C (14°F to 122°F) (not frozen)
Enclosure	IP65 (NEMA 4X)

The TECO EMD FM50 AC Drive is now available in a rugged NEMA 4X enclosure! The enclosure is available in two styles – Keypad Only and Keypad with Operator Devices. Keypad only allows control via the keypad or remote control signals. Keypad with Operator Devices is designed for local control of the drive. It includes the Digital Keypad, Line Disconnect, Speed Potentiometer and Forward-Off-Reverse Switch.

Input Voltage	Keypad Only	Keypad w / Operators
230V 1-Phase	0.25 - 1HP	N/A
230V 1-Phase	0.25 - 1HP	0.25 - 1HP
230V 1/3-Phase	2 - 3HP	2 - 3HP
440V 3-Phase	1 - 3HP	1 - 3HP



TECO Australia Pty. Ltd.
www.teco.com.au email: emd@teco.com.au

Sydney Head Office:	Ph: (02) 9765 8118
Melbourne Office:	Ph: (03) 9720 4411
Brisbane Office:	Ph: (07) 3373 9600
Perth Office:	Ph: (08) 94794879

