

FLUXMASTER



▲ Compact 1/4 to 30 HP AC Inverter

▲ Low Cost

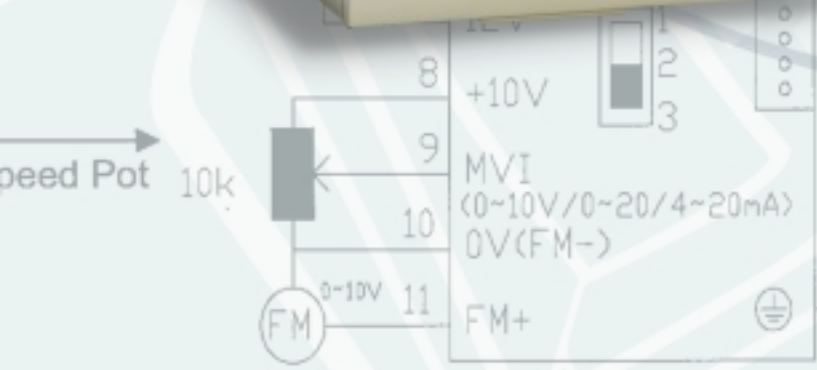
▲ Keypad Mounted Potentiometer

▲ Maximum Output Frequency Up To 400 Hz

▲ UL/cUL/CE Approved

Multi-Function Inputs

Multi-Function Outputs



FM100

FLUXMASTER



Product Specification

Model # FM100 - XXX - N1		230 Volts										460 Volts								
		2P5	201	202	203	205	207	210	215	220	230	401	402	403	405	407	410	415	420	430
Basic Characteristics	Applicable Motor Output (HP)	0.5	1	2	3	5	7.5	10	15	20	30	1	2	3	5	7.5	10	15	20	30
	Rated Output Current (A)	3.1	4.5	7.5	10.5	17.5	26	35	49	64	87	2.3	3.8	5.2	8.8	13	17.5	25	32	48
	Rated Capacity (KVA)	1.2	1.7	2.9	4	6.7	9.9	13.3	18.7	24.4	33.2	1.7	2.9	4	6.7	9.9	13.3	19.1	24.4	36.6
	Output Voltage Max.	Three Phase 200 ~ 240V (Proportional to Input Voltage)										Three Phase 380 ~ 460V (Proportional to Input Voltage)								
	Rated Input Voltage and Frequency	Three Phase 200 ~ 240V, 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 S								
Heatsink Overheat	Protected by Thermostat																			
Operation Conditions	Input Signals	Operation Signal	Forward / Reverse Operation, Individual Command																	
		Reset	Released Protection while the Protect Function is Operating																	
		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																	
	Output Signals	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																			
UL Standard	UL508C																			
EMC Standard	EN50081-1, EN50082-2 (with Optional Filter)																			



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