

ME2 Series

Micro AC Drives

Ratings from ¼ to 3HP



The OEM Micro Drive with Worldwide Acceptance



by MOTORTRONICS

- Compact Size
- Easy to Operate
- Built-in EMI Filter
- Din Rail Adapter Option
- User Friendly Keypad
- Priced to Compete

The "Right" Micro Drive...

Don't Let Size Fool You

The **ME2 Series** is a compact AC drive that, despite its small size, has the features you need. With 150% overload capacity for one minute, the **ME2 Series** is fully rated and fully protected. Protection features include UL listed solid state overload, overvoltage, undervoltage, power loss ride-thru, stall prevention, short circuit, ground fault protection and heat sink overtemp sensing. Designed to perform, the **ME2 Series** offers FWD and REV inputs, plus two multi-function inputs which can be programmed for job, emergency stop, reset and preset speed. A multi-function N.O. relay output contact is available for indicating fault, at speed/frequency or run. Even DC injection braking is standard in the **ME2 Series**.

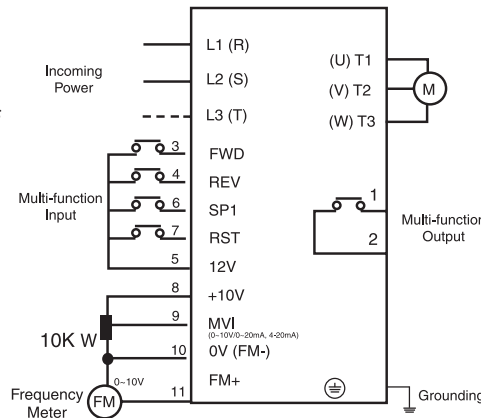


Simple

- to install
- to wire
- to program

Easy to Install & Program

The **ME2 Series** takes up less panel space than other drives in its class and, with single phase power input as standard, wiring time is minimal. All of the wiring terminals are easily accessible without removing any covers, yet "finger safe" to meet IEC standards. The **ME2 Series** is a standard IP20 chassis with an optional DIN rail adapter (1HP and below) for mounting versatility.



Easy to Operate

Unlike some micro drives on the market today, the **ME2 Series** comes standard with a built-in "finger-sized" keypad operator. No hand-held programmers, pens or tiny screw drivers are needed for set up... simply press the up down arrows to program the drive. The **ME2 Series** drive can be operated either directly via the keypad or remotely via a PLC, analog inputs or a 10k potentiometer.

Your Passport to Worldwide Acceptance

This fully digital AC drive that is easy to use "right out of the box," comes complete with a built-in keypad operator and analog inputs. The EMI filter is also an integral part of all models (up to 1 HP), so no external filter packs or inductors are necessary to meet CE requirements. The **ME2 Series** is ideally suited for use on equipment for export since it has all the credentials for worldwide acceptance.



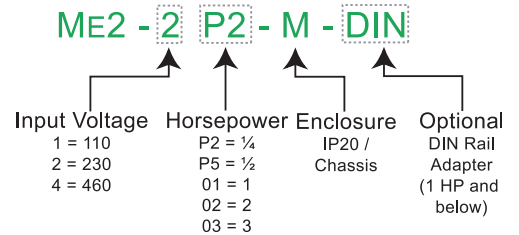
A New World of Applications

It makes sense to use the **ME2 Series** in traditional DC drive and mechanical reversing starter applications. Priced right, the **ME2 Series** is a practical alternative that allows you to use a standard AC motor instead of "maintenance prone" brush-type motors. You can use a **ME2 Series** drive with a standard AC motor and get the performance you need for nearly any application. The **ME2 Series** is also ideal for high duty cycle, reversing applications as a cost effective alternative to mechanical reversing starters.

Right Features, Size & Price

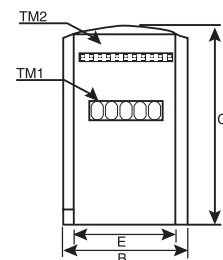
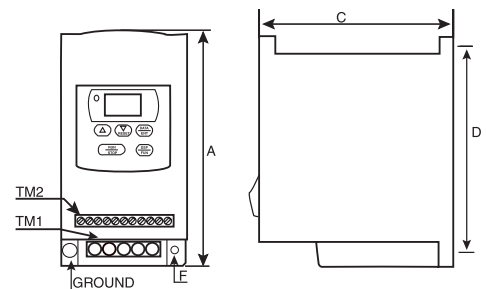
	Model Number	Input Voltage (+10%/-15%)	Output Voltage	Motor Rating		Rated Current (Amps)	Rated Capacity (kVA)	Shipping Weight (lbs)
				kW	HP			
Model Ratings	ME2-1P2-M	Single phase 110 - 120V	Three phase 200 - 230V	0.2	1/4	1.4	0.53	1.5
	ME2-1P5-M			0.4	1/2	2.3	0.88	1.5
	ME2-1P5-M			0.75	1	4.2	1.6	1.5
	ME2-2P2-M	0.2		1/4	1.4	0.53	1.6	
	ME2-2P5-M	0.4		1/2	2.3	0.88	1.7	
	ME2-201-M	0.75		1	4.2	1.6	1.8	
	ME2-202-M	Single or Three phase 200 - 240V	1.5	2	7.5	2.9	3.6	
	ME2-203-M		2.2	3	10.5	4	3.8	
	ME2-401-M		0.75	1	2.3	1.7	3.5	
	ME2-402-M	Three phase 380 - 460V	1.5	2	3.8	2.9	3.5	
ME2-403-M	2.2		3	5.2	4	3.6		
Frequency Control	Frequency Control Range		1 - 200Hz					
	Frequency Resolution		Digital: 0.1 Hz (0-99.9 Hz), 1 Hz (100 - 200 Hz) Analog: 1 Hz (60 Hz)					
	Frequency Setting Signal		Digital Keypad; 0 - 10VDC, 0-20mA, 10k Potentiometer					
	Frequency Limit		Frequency upper/lower limit					
	Carrier Frequency		4 ~ 16 kHz					
Control Characteristics	Accel/Decel Time		0.1 - 999 seconds					
	V/f Pattern		6 Patterns					
	Torque Control		Manual torque boost (adjustable)					
	Braking Torque		Approximately 20%					
	Multifunction Inputs		2 inputs; emergency stop, pre-set speed, reset, run enable					
	Multifunction Outputs		1 (N.O.) relay for fault, run, up to speed indicator					
	Other Built-in Functions		Upper/lower frequency limit, ramp down or coast to stop, auto reset, DC injection brake, electronic motor protection					
	Instantaneous Overcurrent		200% of unit rated current					
	Overload		150% for 1 minute					
	Over-voltage		ME2-1XX and ME2-2XX: DC-bus voltage > 410VDC ME2-4XX: DC-bus voltage > 800VDC					
Protective Functions	Under-voltage		ME2-1XX and ME2-2XX: DC-bus voltage < 200VDC ME2-4XX: DC-bus voltage < 400VDC					
	Momentary Power Loss		0-2 seconds (can be restarted via speed search)					
	Stall prevention		During accel/decel/constant speed					
	Output short circuit		Provided by electronic circuit					
	Ground fault		Provided by electronic circuit during start-up and run					
	Other protection		Heatsink fin overtemp, current limit					
	Control Method		Sinusoidal wave PWM control (PNP type 12 - 24 VDC)					
	Digital display		Indicates frequency, parameter selection, fault record					
	Ambient temperature		- 10° to + 50° C (14° to 122° F)					
	Humidity		≤ 95% relative, non-condensing					
Vibration		Under 1G						
EMC		Class A filter standard in all 200 volt units rated 1/4 - 1 HP; Optional Class B for all other units						
Enclosure		Panel Mount / IP20						
Approvals		UL, cUL, CE						
Mounting		Direct or optional DIN rail mount (for drives rated 1 HP and below)						

How to Order



Dimensions

Model	Overall Dimensions			Mounting Dimensions		
	A	B	C	D	E	F
ME2-1P2-M						
ME2-1P5-M						
ME2-101-M	5.2	2.8	4.65	4.6	2.4	0.18
ME2-2P2-M						
ME2-2P5-M						
ME2-201-M						
ME2-202-M	5.63	4.65	6.78	5.02	4.26	0.18
ME2-203-M						
ME2-401-M						
ME2-402-M	5.63	4.65	6.78	5.02	4.26	0.18
ME2-403-M						



Need higher HP ratings or more programming features?

The **VCM Series** is a V/Hz or Sensorless Vector AC Drive available in ratings up from 0.5 - 40HP at 230 Volts and up to 75 HP at 480V, with all the features you need. Like the **ME2 Series**, it's easy to set-up, program & operate.



World Class Products & Service

Other drive products available from Motortronics

VCM Series

- V/Hz or Sensorless Vector AC Drive
- 0.5 - 40 HP at 230V
- 1 - 75HP at 460V

Key Features

- Simplicity by design
- 150% Starting Torque
- Built-in speed pot
- Full protection
- Flexible I/O
- PID Function
- RS485 communications



MT Series

- High performance Vector drive
- 0.5 - 100 HP at 230V
- 1 - 400HP at 460V

Key Features

- Sensorless Vector, closed loop Vector or V/Hz control
- Intuitive programming & monitoring
- Easy to read multi-line LED display
- Best-in-class torque performance & speed regulation



by  **MOTORTRONICS**

Corporate Headquarters

Motortronics/Phasetronics
1600 Sunshine Drive
Clearwater, Florida 33765 USA
Tel: 727.573.1819 or 888.767.7792
Fax: 727.573.1803 or 800.548.4104
E-mail: motorctrl@aol.com
www: motortronics.com

International Locations

Motortronics Int'l Korea Co Ltd
601, Daeryung Techno Tower 5-cha
Gasan-dong, Geumcheon-gu
Seoul, Korea (153-774)
Tel: 82-2-867-5806-8
Fax: 82-2-867-6004
www: motortronics-korea.com

M & P Machinery & Electronics Control
113 Zaoshan Road
Qingdao, China 266100
Tel: 86-532-87660633
Fax: 86-532-87660733
www: mp-cn.com