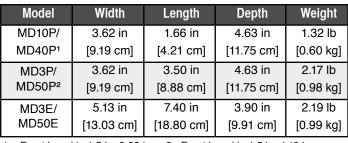
## **MD Series Features + Specifications**

- Dual Voltage 120/240 VAC, 50/60Hz
- Full HP rated no auxiliary heat sink required
- 85-250VAC line voltage operating range
- Closed loop ± 0.1 % regulation\*
- Encoder required See Dart PU Series
- Barrier terminal strip optional plug terminal strip
- Full wave bridge supply
- · Configurable Minimum & Maximum speed
- Configurable Linear Acceleration and Deceleration
- · Programmable display units
- Non-volatile memory retains custom programming
- · Program lockout safety feature
- Custom user program memory storage & retrieval
- -10° to +45°C ambient temperature
- 100:1 speed range
- Overload capacity: 200% for one minute
- Transient voltage protection
- · Configurable alarms with Form C relay output
- Inhibit circuit-permits low power start & stop
- Suitable for wash down applications
  - \* Sensor PPR/application dependent



- Front bezel is 4.54 x 2.29 in. 2 - Front bezel is 4.54 x 4.18 in.



Optimized for use with the Dart PU Series Speed Sensor

Base Model [MD Series] <sup>1</sup>						Options						
Model	Supply Voltage	Motor Voltage	Current	HP	Body	-P	-1	ОРТ3	-9	OPT51	-420	
MD10P	120 VAC	90 VDC	5 ADC	1/8-1/2	Р	F	F	<b>~</b>	F	N/A	N/A	
	240 VAC	180 VDC		1/4-1								
MD3P	120 VAC	90 VDC	10 ADC	1/8-1	Р	F	F	<b>~</b>	F	N/A	N/A	
	240 VAC	180 VDC		1/4-2								
MD3E	120 VAC	90 VDC	10 ADC	1/8-1	E	F	F	<b>√</b>	F	N/A	N/A	
	240 VAC	180 VDC		1/4-2								

Base Model [MD Plus Series] <sup>2</sup>						Options					
Model	Supply Voltage	Motor Voltage	Current	HP	Body	-P	-1	ОРТ3	-9	OPT51	-420
MD40P*	120 VAC	90 VDC	5 ADC	1/8-1/2	. Р	N/A	N/A	<b>✓</b>	N/A	<b>~</b>	<b>~</b>
WIDTO	240 VAC	180 VDC		1/4-1							
MD50P*	120 VAC	90 VDC	10 ADC	1/8-1	. Р	N/A	N/A	<b>√</b>	N/A	<b>~</b>	<b>~</b>
	240 VAC	180 VDC		1/4-2							
MD50E*	120 VAC	90 VDC	10 ADC	1/8-1	E	N/A	F	<b>√</b>	N/A	<b>√</b>	<b>√</b>
	240 VAC	180 VDC		1/4-2							

P - Panel mount

- 1 A minimum 500 and maximum 50,000 pulses/min sensor feedback for proper operation
- 2 A minimum 500 and maximum 600,000 pulses/min sensor feedback for proper operation

## **Option Description:**

- -P: Plug-style terminal strip for ability to remove all wires / harness connection easily
- -1: Provision for external set of Up/Dn push buttons
- OPT3: Option card that boosts signal from 2-wire (non-powered) magnetic proximity sensors
- -9: Blank front bezel overlay (all references to Dart removed) '9' models only
- OPT51: RS485 Serial Communication card. Factory installed in MD50E field installed only in MD40P and MD50P
- 4-20mA isolated input/output card. Factory installed only MD50E; factory or field installed MD40P/ MD50P. Does NOT supply loop power

<sup>√ -</sup> Option is available

N/A - Option Not available

E - NEMA 4 enclosed

F - Option is available as Factory Installed only

<sup>\*</sup> PU-40 sensor is recommended for these models