

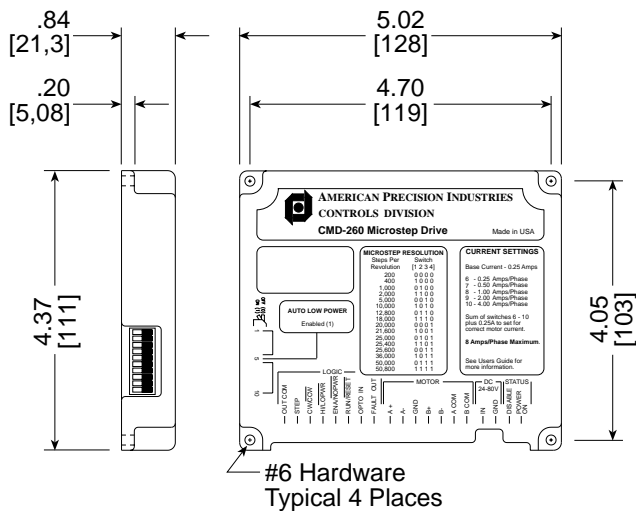
**DESCRIPTION**

Each CMD-260 includes an integral heatsink and plug type connectors for motor, logic and power connections. DIP switches select step resolutions, current settings and standstill current reduction. Status LED's indicate drive disabled and power on.

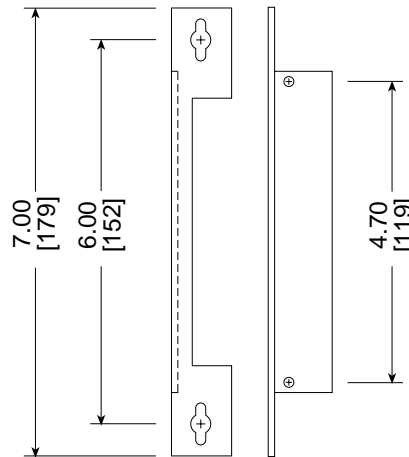
**INSTALLATION STEPS**

- Configure current switches for motor selected.
- Configure microstep resolution switch settings.
- Wire logic inputs, +5 VDC supply, and motor connections.
- Mount drive vertical in open air flow (Fan cooling required above 4.0 Amps).
- Wire 24-80 VDC and supply power.
- Supply input signals to operate.

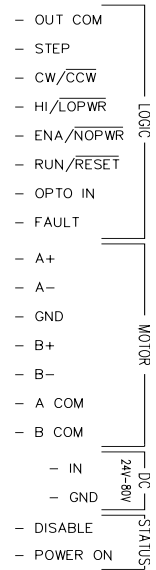
**DIMENSIONS** [-] denotes millimeters



**Optional Mounting Bracket BKT-260**



**Connections**



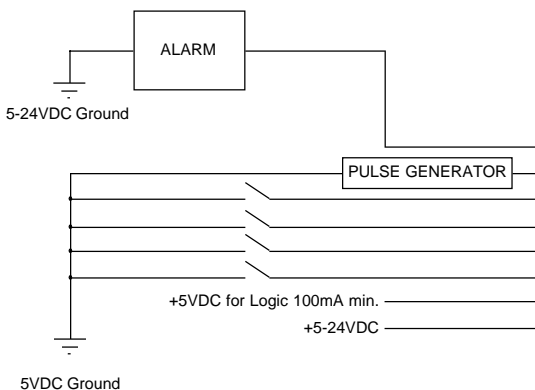
Subject to changes without notice.

**LOGIC CONNECTIONS (8 PINS)**

**LOGIC INPUTS** ..... Optically isolated. TTL compatible. User must sink 10mA minimum to trigger input logic.

**STEP INPUT** ..... Requires 0.5 microsecond minimum width, 1 MHz max. pulse rate, steps on trailing edge.

**FAULT OUTPUT** ..... Sinking output to OUTCOM, 5-24 VDC, 60mA max. Disable LED on. Overcurrent - Protected from short circuit - phase to phase. phase to ground. Over temperature - internal air temp exceeds 140°F (60°C). Under voltage - DC voltage drops below 22VDC. (Power must be cycled to reset drive.)

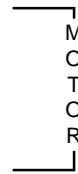


Output Common .....	OUT COM	LOGIC
Step Signal .....	STEP	
Direction Signal .....	CW/CCW	
High/Low Power Signal .....	HI/LOPWR	
Enable/No Power Signal .....	ENA/NOPWR	
Run/Reset .....	RUN/RESET	
Opto Input (5 VDC) .....	OPTO IN	
Fault Output (24 VDC Max) .....	FAULT	



**MOTOR CONNECTIONS (7 PIN)**

Motor Phase A+ ..... A+  
 Motor Phase A- ..... A-  
 Motor Ground ..... GND  
 Motor Phase B+ ..... B+  
 Motor Phase B- ..... B-  
 Motor Phase A Common ..... A COM  
 Motor Phase B Common ..... B COM



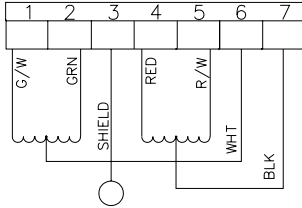
**POWER INPUT 2 PIN KEYED CONNECTOR**

24-80VDC Unregulated  
 10% maximum ripple

DC Input ..... IN  
 DC Ground ..... GND

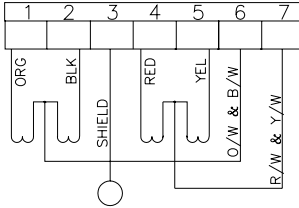


**BASIC MODEL MOTORS**  
 MOTOR CONNECTOR



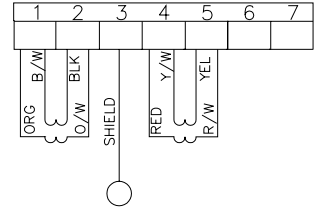
6 LEAD MOTOR (SERIES)  
 DRIVE CURRENT = MOTOR I<sub>Phase</sub> \* 0.707

**COMPLETE MODEL MOTORS**  
 MOTOR CONNECTOR



8 LEAD MOTOR (SERIES)  
 DRIVE CURRENT = MOTOR I<sub>Phase</sub> \* 0.707

**COMPLETE MODEL MOTORS**  
 MOTOR CONNECTOR



8 LEAD MOTOR (PARALLEL)  
 DRIVE CURRENT = MOTOR I<sub>Phase</sub> \* 1.414

**SYSTEM SELECTIONS / MOTOR DIMENSIONS**

Motor Model	Static Torque Oz-in (N-m)	Motor Width in. (mm)	Motor Length in. (mm)	Current Setting - Series [1234567890]
M231-03	60 (0.42)	2.23 (57)	2.00 (51)	x x x x x 01000
M232-09	100 (0.71)	2.23 (57)	3.25 (83)	x x x x x 00110
M233-09	150 (1.06)	2.23 (57)	4.00 (102)	x x x x x 00110
M341-09	150 (1.06)	3.35 (85)	2.45 (62)	x x x x x 00110
M342-09	300 (2.12)	3.35 (85)	3.70 (93)	x x x x x 00110
M343-14	400 (2.82)	3.35 (106)	5.31 (135)	x x x x x 01001
MT230-04	50 (0.35)	2.25 (57)	1.60 (41)	x x x x x 00100
MT231-07	100 (0.71)	2.25 (57)	2.06 (52)	x x x x x 00010
MT232-06	150 (1.06)	2.25 (57)	3.10 (79)	x x x x x 00010



Current drops to 50% of selected value if no step pulses are received in 1 second.

**AUTO LOW POWER**  
 Enabled (1)

**MICROSTEP RESOLUTION**

Steps Per Revolution	Switch [1 2 3 4]
200	0 0 0 0
400	1 0 0 0
1,000	0 1 0 0
2,000	1 1 0 0
5,000	0 0 1 0
10,000	1 0 1 0
12,800	0 1 1 0
18,000	1 1 1 0
20,000	0 0 0 1
21,600	1 0 0 1
25,000	0 1 0 1
25,400	1 1 0 1
25,600	0 0 1 1
36,000	1 0 1 1
50,000	0 1 1 1
50,800	1 1 1 1

**CURRENT SETTINGS**  
 Base Current - 0.25 Amps  
 6 - 0.25 Amps/Phase  
 7 - 0.50 Amps/Phase  
 8 - 1.00 Amps/Phase  
 9 - 2.00 Amps/Phase  
 10 - 4.00 Amps/Phase  
 Sum of switches 6 - 10 plus 0.25A to set for correct motor current.  
**8 Amps/Phase Maximum.**