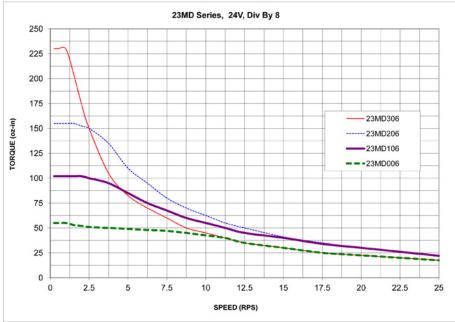
23MD Series Motor / Driver Combination SPEC SHEET

- Step Motor / Microstep Driver Combination
- Eliminates Motor Wires
- Encoder Options Available
- Microstep Divisors of 8, 4, 2, or Full Step
- Compact Package
- 12-24V Power Requirement
- TTL Logic or 24V Level Inputs Available
- Ideal for Precise Positioning
- 0.225° Resolution at Eighth Step
- Efficient and Durable
- Long Life Expectancy



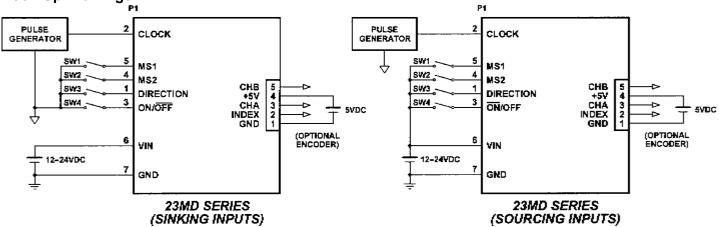
The 23MD Series is a compact construction that implements a microstepping driver and a step motor in one streamline package. With the two parts combined into one casing, the need to include motor wires has been eliminated. The high-torque step motor can generate up to 230 oz-in of torque. The microstepping driver will operate off 12VDC minimum to 24VDC maximum with a maximum power intake of 40W. The inputs are capable of running from either open collector or TTL level logic outputs, or sourcing 24VDC outputs from PLCs. The microstepping driver features resolutions from 200 - 1600 steps/revolution, providing smooth rotary operation. The 23MD series comes in either a single shaft version or a double shaft version with optional encoder and motor stack lengths of 1/2, 1, 2, or 3 allowing for varying amounts of start-up torque and inertia. Standard motors that have the 04 and 10 encoder part number call out, do not come with an index. An index channel as well as other CPR options are available on special request. The 23MD series features include built in over temperature and short circuit shut down, automatic 70% reduction in current after clock pulses stop being received, and status LED's to indicate power on (Green LED) and clocks being received (Yellow LED).





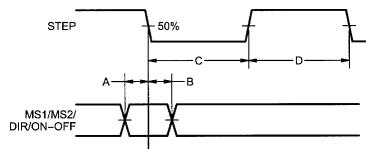
4985 E. Landon Drive Anaheim, CA 92807 e-mail: info@anaheimautomation.com (714) 992-6990 fax: (714) 992-0471 website: www.anaheimautomation.com

Hook-Up Drawings



Input Pin Descriptions				
Pin #	Description	CBL-AA4031 Wire Color		
1	Direction	Brown		
2	Clock	Red		
3	On/Off	Orange		
4	MS2	Yellow		
5	MS1	Green		
6	12VDC-24VDC	Blue		
7	0VDC (Gnd)	Violet		

Microstep Resolution Truth Table				
MS1	MS2	Resolution		
Active	Active	Full Step		
Inactive (Open)	Active	Half Step		
Active	Inactive (Open)	Quarter Step		
Inactive (Open)	Inactive (Open)	Eighth Step		



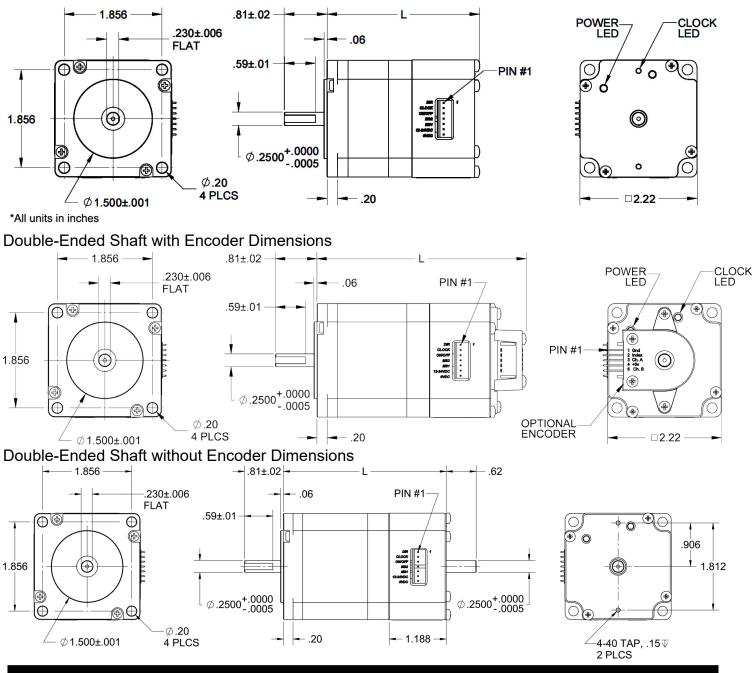
Encoder Pin Descriptions				
Pin #	Description	CBL-AA4032 Wire Color		
1	0VDC (Gnd)	Brown		
2	Index (Optional)	Red		
3	Channel A	Orange		
4	+5VDC	Yellow		
5	Channel B	Green		

Direction	Logic "1" CW
Direction	Logic "0" CCW
Clock:	Active - 1 Step
	Inactive (open) - Reduce Current Mode
On/Off:	Active - Off
	Inactive (open) - On
Note:	

Open Inputs are inactive and internally pulled up to +5VDC for 23MDX06X-XX-00-00 (Sinking) Open Inputs are inactive and internally pulled down to 0VDC for 23MDX06X-XX-24-00 (Sourcing)

For the sinking version (23MDX06X-XX-00-XX) the inputs are considered inactive or Logic "1" if left open, or active or Logic "0" if grounded. For the sourcing version (23MDX06X-XX-24-XX) the inputs are considered inactive or Logic "0" if left open, or active or Logic "1" if pulled to 3.5 - 24VDC.

Single-Ended Shaft Dimensions



Model	Length	Model	Length	Model	Length
23MD006S-00-00-00	2.98"	23MD006S-04-00-00	3.59"	23MD206S-04-00-00	4.94"
23MD006S-00-24-00	2.98"	23MD006S-04-24-00	3.59"	23MD206S-04-24-00	4.94"
23MD106S-00-00-00	3.42"	23MD006S-10-00-00	3.59"	23MD206S-10-00-00	4.94"
23MD106S-00-24-00	3.42"	23MD006S-10-24-00	3.59"	23MD206S-10-24-00	4.94"
23MD206S-00-00-00	4.33"	23MD106S-04-00-00	4.03"	23MD306S-04-00-00	5.94"
23MD206S-00-24-00	4.33"	23MD106S-04-24-00	4.03"	23MD306S-04-24-00	5.94"
23MD306S-00-00-00	5.33"	23MD106S-10-00-00	4.03"	23MD306S-10-00-00	5.94"
23MD306S-00-24-00	5.33"	23MD106S-10-24-00	4.03"	23MD306S-10-24-00	5.94"

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Ordering Information - Use the chart to create your specific part number					
Model Series	Motor Length	Shaft Options	Encoder Options	Sourcing or Sinking	Special Options
23MD	106	S	-00	-00	-00
006, 106, 206, 306					
	S - Single-Shaft, D - Double-Shaft with Optional Encoder Mounted				
00 No Encodor					

-00 - No Encoder

-04 - 400 Line Encoder without Index

-10 - 1000 Line Encoder without Index

Other options will be made available as requested

-00 - Sinking Inputs -24 - Sourcing Inputs

> -00 Standard Product Other options will be created as needed

Note: Standard motors that have 04 and 10 Encoder part numbers, do not come with an index. Index channel is available on special request.

Accessories Ordering Information			
Part Number	Description		
CBL-AA4031	7 Pin Input Connector with 12" Leads		
CBL-AA4032	5 Pin Encoder Connector with 12" Leads		
PSAM24V2.7A	24V @ 2.7A Universal Input Power Supply		
PSAM24V1.2A-5V3.5A	24V @1.2A and 5V @ 3.5A Univeral Input Power Supply		
CON-6404407	7 Pin Connector with 0.100" Centers (Amp #640440-7)		
CON-6404405	5 Pin Connector with 0.100" Centers (Amp #640440-5)		

ANAHEIM AUTOMATION