

Driver Specifications

Input Signal  
Command Interface  
Position mode

Velocity mode  
Force mode

Output Signal  
Speed signal  
Encoder signal

Alarm signal  
Monitor

Power source  
Maximum power consumption  
Weight

LM1050/LM5040

LM1100/LM5090

LM1300/LM5270

Step Input: Low going, low pulse, 150 nanoseconds minimum pulse width, 1.6 MHz max (LM1000) or 2.0 MHz max (LM5000)  
Direction Input: Logic high = UP direction; Logic low = DOWN direction  
Analog Input: ±10VDC command signal  
Analog Input: ±8VDC command signal  
  
+6V (UP direction); -6V (DOWN direction)  
Track A/B (4,000 kHz max.), Z-channel signal: 1 pulse/2.048 mm (LM1000) or 1 pulse/4.096 mm (LM5000)  
  
Over current, over voltage, over temperature of heat sink; Under voltage, encoder abnormal, CPU abnormal  
2.5 Hz step response output (test mode)  
100–115VAC or 200–230VAC. +10–15%, 50/60 kHz  
LM1000 Series—300VA; LM5000 Series—450VA  
4 lbs 1.8 kg

Environmental Specifications

Operation Temperature  
Operation Humidity  
Storage Temperature  
Storage Humidity  
Environment

Motor

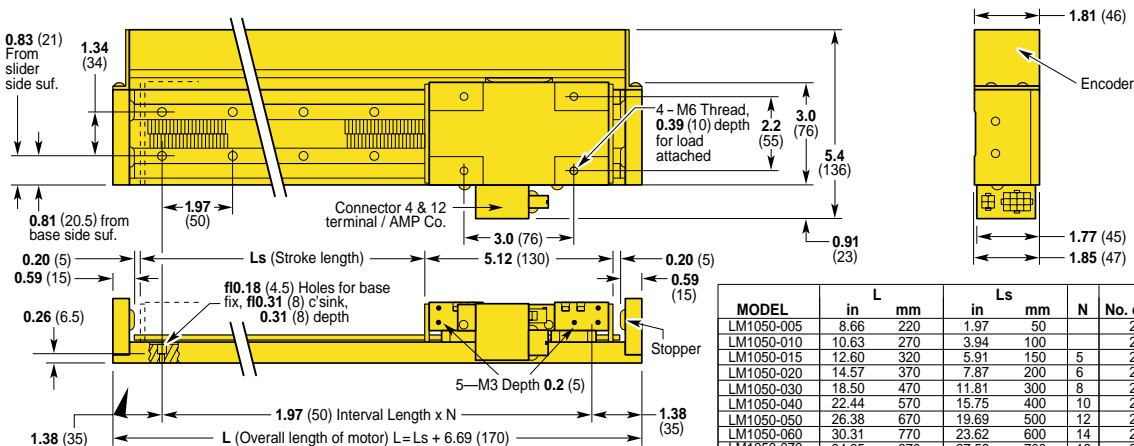
Driver

Note

0–45°C  
20–85% RH  
-20–85°C  
20–85% RH  
No corrosive gases; dust-free atmosphere  
0–50°C  
20–90% RH  
-20–85°C  
20–90% RH  
No condensing  
No condensing

LM1050/LM5040 Motor Dimensions

Dimensions in inches (mm)



MODEL	in	L mm	in	Ls mm	N	No. of Holes
LM1050-005	8.66	220	1.97	50		2 x 2
LM1050-010	10.63	270	3.94	100		2 x 4
LM1050-015	12.60	320	5.91	150	5	2 x 6
LM1050-020	14.57	370	7.87	200	6	2 x 7
LM1050-030	18.50	470	11.81	300	8	2 x 9
LM1050-040	22.44	570	15.75	400	10	2 x 11
LM1050-050	26.38	670	19.69	500	12	2 x 13
LM1050-060	30.31	770	23.62	600	14	2 x 15
LM1050-070	34.25	870	27.56	700	16	2 x 17
LM1050-080	38.19	970	31.50	800	18	2 x 19
LM1050-090	42.13	1070	35.43	900	20	2 x 21
LM1050-100	46.06	1170	39.37	1000	22	2 x 23
LM1050-110	50.00	1270	43.31	1100	24	2 x 25
LM1050-120	53.94	1370	47.24	1200	26	2 x 27
LM1050-130	57.87	1470	51.18	1300	28	2 x 29
LM1050-140	61.81	1570	55.12	1400	30	2 x 31
LM1050-150	65.75	1670	59.06	1500	32	2 x 33