VARIABLE SPEED LINEAR ACTUATOR MOTOR FAMILY

Series LAS, LBS Stepping Linear Actuator

Maximum Load:	LAS 10 lbs., LBS 6.5 lbs.
Rotor Assembly:	Threaded to accept a std. 1/4"-16 ACME 2G right-hand screw (Class 2G RH)
Insulation Class:	Class A (105°C)
Lead Wire:	LAS/LBS 6 leads 24 AWG (approx. 8.5 inches [215.9 mm])
Operation Ambient Temp:	-10°C to +40°C (approx.)
Motor Construction:	Die cast end bells and ball bearing construction
Shaft Length:	8 inches [203.2 mm] max with travel 5.25 inches [133.35 mm]
Applications:	Pushing, Pulling, Lifting, and Positioning
Note: Typical data subject to change without notification	

The LAS and LBS stepping motor/actuator offers an economical choice of controlled linear motion for pulling, pushing, or lifting. The rotor assembly contains a nut which accepts a standard 1/4" diameter, 16 TPI, RH Acme screw giving a Class 2G fit.

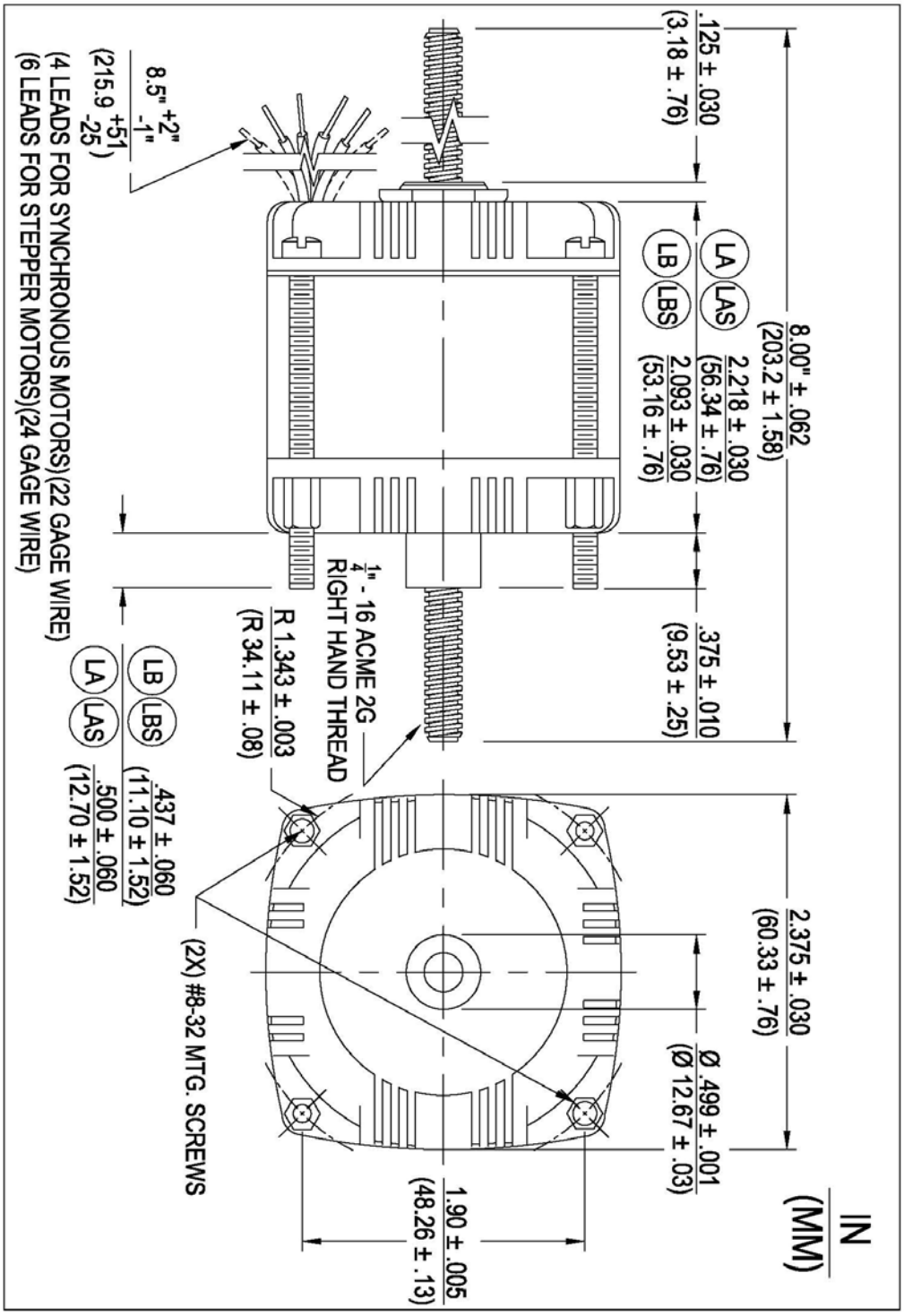
LAS and LBS series stepping motors have rotor step angles of 7.5° (LAS) or 15° (LBS) with linear resolutions of 768 or 384 steps per inch, respectively. They may be driven with the Hurst controllers as shown in the table below.

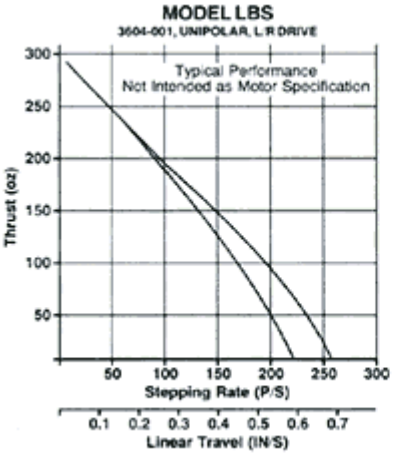
The motors are reversible and have die cast end bells and ball bearing construction.

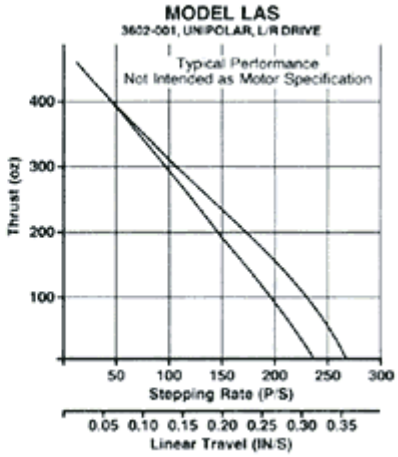
Notes:

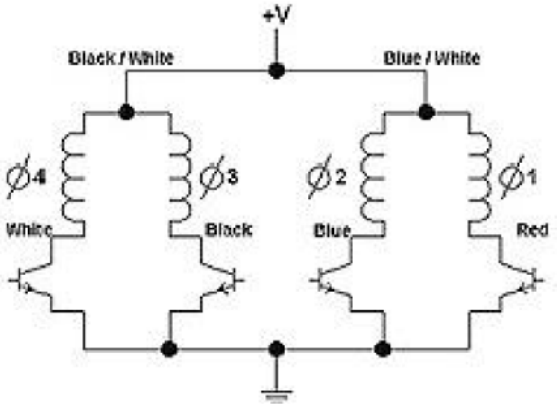
- Standard winding is unipolar with 6 lead wires.
- Bi-polar windings may be specified.

Model	Part Number	Step Angle (deg)	Steps Inch	in/sec	cm/sec	Maximum Load (lbs)	Maximum Load (kg)	Input Power (watts)	Nominal Voltage (VDC)	Winding Resistance (ohms)	Full Load Temp. Rise °C	Shaft Length (in)	Shaft Length (cm)	Weight (oz)	Weight (g)
LAS	3602-001	7.5	768	0.26	.66	10	4.5	8	12	35.2	51	8	20.3	22	623.7
LAS	3602-002	7.5	768	0.26	.66	10	4.5	8	24	135	51	8	20.3	22	623.7
LAS	3602-003	7.5	768	0.26	.66	10	4.5	8	6	8	51	8	20.3	22	623.7
LBS	3604-001	15	384	0.52	1.32	6.5	2.95	8.5	12	32.2	52	8	20.3	22	623.7
LBS	3604-003	15	384	0.52	1.32	6.5	2.95	8.5	6	7.4	52	8	20.3	22	623.7
LBS	3604-007	15	384	0.52	1.32	6.5	2.95	8.5	12	32.2	52	12	30.5	24	680.4


IN
(MM)
8.00" ± .062
(203.2 ± 1.58)
.125 ± .030
(3.18 ± .76)
LA
LAS
2.218 ± .030
(56.34 ± .76)
LB
LBS
2.093 ± .030
(53.16 ± .76)
.375 ± .010
(9.53 ± .25)
2.375 ± .030
(60.33 ± .76)
Ø .499 ± .001
(Ø 12.67 ± .03)
1.90 ± .005
(48.26 ± .13)
1/4" - 16 ACME 2G
RIGHT HAND THREAD
R 1.343 ± .003
(R 34.11 ± .08)
(2X) #8-32 MTG. SCREWS
LB
LBS
.437 ± .060
(11.10 ± 1.52)
LA
LAS
.500 ± .060
(12.70 ± 1.52)
8.5" +2" -1"
(215.9 +51 -25)
(4 LEADS FOR SYNCHRONOUS MOTORS)(22 GAGE WIRE)
(6 LEADS FOR STEPPER MOTORS)(24 GAGE WIRE)







	Ø4 White	Ø3 Black	Ø2 Blue	Ø1 Red	
CCW ROTATION	1	0	1	0	CW ROTATION
	1	0	0	1	
	0	1	0	1	
	0	1	1	0	

1 = ON, 0 = OFF

SWITCHING SEQUENCE