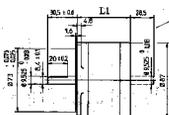
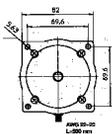


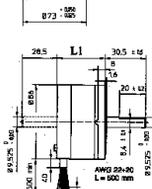
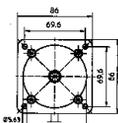
# L-Series Standard Range

## Dimensions (mm)

### Size 34 Standard



### Size 34 High Performance



## Size 34 Models and Specifications

Notes:

Standard protection rating IP44.

Optional splash-proof protection rating IP55.

These motors are available in single or double shaft versions.

## Size 34 Standard Performance Models

Model	Step angle Deg	Volt- age V	Cur- rent A	Phase Resis- tance	Phase Induc- tance mH	Bipolar Holding torque N-cm	Unipolar Holding torque N-cm	Detent torque N-cm	Rotor inertia g-cm <sup>2</sup>	Mass Kg	No. of Leads	Body Length L1 mm
L279	1.8	5.8	1.3	4.5	16.9	182	141	12	640	1.3	8	62
L281	1.8	3.0	1.7	1.8	5.3	150	116	12	640	1.3	8	62
L257	1.8	2.8	3.1	0.9	2.9	182	141	12	640	1.3	8	62
L251-3	1.8	1.9	4.7	0.41	1.5	193	150	12	640	1.3	8	62

## Size 34 Discontinued Models

The models listed below are due to be phased out of production

Model	Step angle Deg	Volt- age V	Phase Cur- rent A	Phase Resis- tance	Phase Induc- tance mH	Bipolar Holding torque N-cm	Unipolar Holding torque N-cm	Detent torque N-cm	Rotor inertia g-cm <sup>2</sup>	Mass Kg	No. of Leads	Body Length L1 mm
L259	1.8	2.3	4.6	0.5	2.4	367	282	22	1300	2.4	8	94
L267	1.8	2.1	7.0	0.3	1.4	488	397	20	1950	3.1	8	127

## Size 34 High Performance Models

The high performance range features specialised materials and design to provide an outstanding torque/inertia ratio within a compact motor housing. Incorporating new neodymium magnetic material, optimised geometry and tolerances, these motors are designed to operate at low voltage and current ratings. Under typical conditions, the high performance motors will deliver up to twice the torque of standard hybrid stepper motors.

Model	Step angle Deg	Volt- age V	Phase Cur- rent A	Phase Resis- tance	Phase Induc- tance mH	Bipolar Holding torque N-cm	Unipolar Holding torque N-cm	Detent torque N-cm	Rotor inertia g-cm <sup>2</sup>	Mass Kg	No. of Leads	Body Length L1 mm
L707	1.8	7.0	1.4	5.0	21.0	280	230	8.5	660	1.6	8	67
L708	1.8	3.6	2.8	1.3	3.1	280	230	8.5	660	1.6	8	67
L251RE1.8	2.2	4.3	0.5	2.1	280	230	8.5	660	1.6	8	67	
L709	1.8	4.8	2.8	1.7	7.7	480	380	13	1200	2.4	8	94
L259RE1.8	3.4	4.3	0.8	3.5	480	380	13	1200	2.4	8	94	
L277RE1.8	5.3	3.5	1.5	8.5	760	620	23	1800	3.6	8	125	
L267RE1.8	3.2	6.4	0.5	2.5	760	620	23	1800	3.6	8	125	

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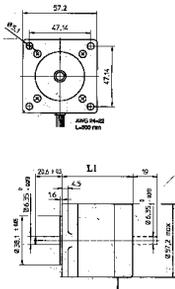




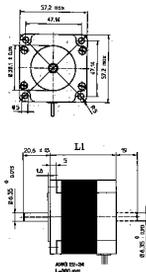
# L-Series Standard Range

## Dimensions (mm)

### Size 23 Standard



### Size 23 High Performance



## Size 23 Models and Specifications

Notes:

Standard protection rating IP44.

These motors are available in single or double shaft versions.

## Size 23 Standard Performance Models

Model	Step angle Deg	Volt- age V	Phase Cur- rent A	Phase Resis- tance	Phase Induc- tance mH	Bipolar Holding torque N-cm	Unipolar Holding torque N-cm	Detent torque N-cm	Rotor inertia g-cm <sup>2</sup>	Mass Kg	No. of Leads	Body Length L1 mm
L155	1.8	11.2	0.33	33.8	54.6	32	n/a	3.4	56	0.34	4	40
L222	1.8	3.4	1.0	3.4	3.8	34	27	3.4	56	0.34	8	40
L211	1.8	2.3	1.5	1.5	1.5	33	25	3.4	56	0.34	8	40
L213	1.8	1.5	2.2	0.7	1.2	31	n/a	3.4	56	0.34	4	40
L161	1.8	10.1	0.44	23	39.2	65	52	5.3	124	0.5	8	52
L163	1.8	5.0	1.0	5	8	69	53	5.3	124	0.5	8	52
L215	1.8	2.3	2.1	1.1	1.7	64	52	5.3	124	0.5	8	52
L191	1.8	4.2	1.6	2.6	4.7	109	87	8.5	200	0.7	8	67
L197REI	8	3.4	1.9	1.8	3.3	113	89	8.5	200	0.7	8	67
L193	1.8	2.8	2.5	1.1	4.0	114	n/a	8.5	200	0.7	4	67
L195REI	8	1.6	4.7	0.33	0.5	109	87	8.5	200	0.7	8	67
L201	1.8	3.5	2.9	1.2	2.4	148	113	10	330	1.2	8	103
L199	1.8	2.3	4.6	0.5	0.9	145	111	10	330	1.2	8	103

## Size 23 High Performance Models

The high performance range features specialised materials and design to provide an outstanding torque/inertia ratio within a compact motor housing. Incorporating new neodymium magnetic material, optimised geometry and tolerances, these motors are designed to operate at low voltage and current ratings. Under typical conditions, the high performance motors will deliver up to twice the torque of standard hybrid stepper motors.

Model	Step angle Deg	Volt- age V	Phase Cur- rent A	Phase Resis- tance	Phase Induc- tance mH	Bipolar Holding torque N-cm	Unipolar Holding torque N-cm	Detent torque N-cm	Rotor inertia g-cm <sup>2</sup>	Mass Kg	No. of Leads	Body Length L1 mm
L700	1.8	4.6	1.0	4.6	4.6	47	37	2.1	77	0.5	8	41
L701	1.8	2.1	2.1	1.0	2.1	48	n/a	2.1	77	0.5	4	41
L702	1.8	6.2	1.0	6.2	8.8	98	75	4.0	220	0.7	8	55
L703	1.8	2.9	2.1	1.4	3.9	98	n/a	4.0	220	0.7	4	55
L704	1.8	2.1	3.0	0.7	0.9	98	75	4.0	220	0.7	8	55
L705	1.8	4.2	2.1	2.0	6.5	161	n/a	6.8	340	1.0	4	79
L706	1.8	3.3	3.0	1.1	1.7	163	125	6.8	340	1.0	8	79

Note:

Shaft diameter for models L705 and L706 is 8mm